

ECONOMIC REVIEW 1997

**STATE PLANNING BOARD
THIRUVANANTHAPURAM**

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GENERAL REVIEW

DEVELOPMENT IN NATIONAL ECONOMY

The GDP growth rate for the Eighth Five Year Plan averaged at 6.5 per cent. For 1996-97, the last year of the plan, GDP growth was 7.5 per cent. But it is disquieting to note that in 1997-98, the first year of the Ninth Plan, there is a significant fall in GDP growth rate. The Central Statistical Organisation has estimated that the growth rate in 1997-98 will be only 5 per cent, a steep fall of 33.33 per cent compared to the previous year. The deceleration has been on account of a negative growth in agriculture and a much slower growth in industry. It is important to note that the serious problem that has come to light is that the total public investment has slipped sharply from the Eighth Plan target of 45 per cent of total investment to 33.6 per cent, or from the target of 10.4 per cent of GDP to 8.4 per cent. This slippage of two per cent in terms of GDP has, it is important to note, fallen disproportionately on infrastructure, both economic and social.

1.2 Agriculture is projected to register a negative growth of (-) 2.0 per cent in 1997-98 as against 7.9 per cent in 1996-97. Similarly manufacturing sector is also expected to decelerate from 7.4 per cent to 6.1 per cent in the same period. Only service sector is projected to register a substantial growth. The overall recessionary trend and a sluggish industrial front experienced in 1997-98 is reflected in the sharp fall in the imports of capital goods as well as those for setting up project goods and industrial raw materials. This demand slump in industry is resulting in a dip in industrial growth.

1.3 On the external front while the export grew by 10.5 per cent in 1996-97 over the previous year, the import increased by 11.5 per cent. The overall imports during April-December 1997 went up to \$25,733 million in April-December 1997 to \$24,146 million during the corresponding period last year, representing a growth of 6.57 per cent. Although imports increased by 6.57 per cent, export in the case of a number of commodities declined during this period. Agriculture and allied products dropped by 13.2 per cent, processed minerals declined by 29.95 per cent, leather and leather products by 6.41 per cent. The crisis in South East Asia among the Asian Tigers, is likely to have a heavy disadvantage for exports from India. The compelling situation in those countries force them to export goods at heavy discounts. This is an area where the country has to closely watch and tread on carefully.

1.4 As regards gross domestic savings, though there has been an increase in overall savings rate in 1996-97, from 25.3 per cent of GDP in 1995-96 to 26.1 per cent in 1996-97, the savings of the public sector showed a decline of (-) 1.9 per cent. Similarly the net savings of the private corporate sector declined by 17.1 per cent. As regards Public Sector the net dissavings increased by 26.5 per cent.

1.5 The rate of inflation, in 1997-98 remained more or less stable, ruling far below the double digit inflation experienced consistently during the last two years. An inflation rate of less than 6 per cent should augur well for the economy in the first year of the Ninth Five Year Plan.

1.6 The draft Ninth Five Year Plan recently released by the Planning Commission envisages a total plan outlay of Rs. 23,21,000 crores. The total investment proposed is Rs. 22,05,000 crores of which Public Sector is expected to put in Rs. 7,59,000 crores, private sector Rs. 6,91,000 crores and the household sector Rs. 7,55,000 crores. The total Public Sector outlay is placed at Rs. 8,75,000 crores. The Planning Commission has projected a GDP growth rate of 7 per cent per annum, against the average growth rate realised for the Eighth Five Year Plan. But the likely growth rate of 5 per cent projected for 1997-98 should be a cause for concern, viewed in the context of 7 per cent projected for the Plan period.

1.7 On the external economic front while the country's external debt continued to be rather high at around \$95 billion, the current account deficit for 1997-98 is estimated to reach \$5.4 billion compared to \$3.7 billion for 1996-97. While both export and import declined sharply during the year, the decline was steeper in exports, resulting in a higher trade deficit.

DEVELOPMENT IN KERALA'S ECONOMY

1.8 The growth rate in SDP in 1996-97 was 5.8 per cent against the projected Eighth Plan target of 5.6 per cent. Agriculture sector showed improved performance. All the sectors except Electricity witnessed growth during 1996-97. Eventhough growth of manufacturing was not upto the expected levels, the performance improved substantially compared to the previous year when it was stagnating. The services sector (tertiary) maintained the growth rate it achieved in the past. The recovery in industrial production in 1996-97 is a

vindication of the measures initiated by the government. Greater efforts will be required however to improve the growth further.

1.9 While the per capita income of the State at constant prices improved from Rs. 2264 in 1995-96 to Rs. 2363 in 1996-97, Kerala still lags behind the national per capita, which stood at Rs. 2761 during 1996-97.

1.10 The relative contribution of agriculture and allied sectors declined from 36.43 per cent in 1991-92 to 31.4 per cent in 1996-97. While the secondary sector's contribution increased from 23.8 per cent to 24.8 per cent, the service sector's share increased significantly from 39.7 per cent to 43.9 per cent in the same period. Whereas industrial production has to increase for the further diversification of the economy, the growth and diversification of the agricultural sector is necessary particularly from the view point of employment generation and balanced regional development of the State's economy. Between the industry sector and services sector, which includes activities like trade, banking and insurance, growth has to be accelerated with special emphasis on commodity production with maximum internal linkages so as to ensure that economic growth is accompanied by creation of sustainable employment opportunities.

1.11 With inflation ruling at single digit for more than a year, the consumer price index for agricultural and industrial workers also declined to below double digit during 1997. The wholesale price index of agricultural commodities in 1997, however, during January-June 1997 remained at 14.3 per cent over the corresponding period of the previous year. The rate of increase in the case of food crops declined. The parity index was favourable to the farmers as the prices paid by the farmers increased only 14 per cent while the prices received by them increased 24 per cent.

1.12 The outlook for the future of the State's economic growth would depend critically on the extent to which major gaps in infrastructure can be filled in the coming years. The most important gap relates to the power sector. The state is facing acute shortage of power and is unable to lift load shedding. Even though power cuts have been lifted temporarily, made possible partly by import of power from the Eastern grid, the gravity of the problem continues to be a cause for concern. The power cuts, whose major sufferer is the industrial sector, had its adverse impact on industrial production during the last two years. The power shortage is likely to result in a slowing down of overall growth; with adverse consequences on production and employment. While plan allocation for power development has been stepped up significantly in the Annual Plan, emphasis is being given for speedy completion of certain ongoing

projects. Lower Periyar and Bramhapuram Diesel Plants have since been commissioned. The State Government has also drawn up power development programmes involving private sector participation and a number of agreements (IPPs) to this effect have already been signed. The improvement in the power situation would, however, depend on the speed with which the projects get implemented.

1.13 Another aspect that would need more focussed attention is that relating to the support of banks and financial institutions for implementation of the State's development programmes. The performance of the banking sector needs improvement in terms of dispensation of credit within the state. The credit-deposit ratio of Kerala has sharply declined. Similarly adequate support has also not been forthcoming from the All India Financial Institutions, Kerala's share being only slightly over one per cent in their over all disbursements. For a State which does not have adequate budgetary resources to meet the various development requirements, the financial institutions would have to lend the necessary support especially in helping the State to develop its basic infrastructure needs.

1.14 Eventhough the overall financial position of the State Government remains more or less satisfactory, the position regarding revenue deficit is a matter for continuing concern. The revenue deficit, as a percentage of total revenue expenditure in 1997-98 (B.E) increased to 14.12 per cent from 13.48 per cent in the revised estimate for previous year. This review has repeatedly pointed out that financing revenue deficits through borrowings is not a healthy practice as that would lead to increasing indebtedness. It also inhibits economic growth due to large scale diversion of development funds for non-income generating activities.

1.15 The process of the transfer of powers and functions to the Local Bodies has been almost completed. The transfer of 35-40 per cent of the plan funds is accompanied with freedom to formulate and implement local level need-based programmes by the Local Bodies. The administrative machinery deployed accordingly is entrusted with the task of implementing the plan programmes prepared by Local Bodies connected with decentralised Planning. A state-wise campaign launched to equip the Local Bodies to prepare grass root level plan programmes by them has generated tremendous enthusiasm among the local people in preparing and implementing plan programmes. This is reflected in the increasing participation in the Grama Sabhas. This exercise in participatory local level planning in Kerala has attracted national and international attention.

1.16 Selected indicators of the State's economy are presented in Table 1.1

Table 1.1

Important Indicators of the State Economy

| Sl. | Item | 1970-71 | 1980-81 | 1985-86 | 1988-89 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|-----|-------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 1. | State Income at current prices (Rs. Crores) | 1255 | 3823 | 6503 | 9182 | 10668 | 12173 | 15102 | 17175 | 19688 | 23236 | 25802(P) | 28479(Q) | -- |
| 2. | State Income (1980-81 Prices) (Rs. Crores) | 1255** | 3823 | 4086 | 4584 | 4892 | 5262 | 5365 | 5752 | 6381 | 6634 | 7018(P) | 7422(Q) | -- |
| 3. | Per Capita Income (at current prices) (Rs.) | 594** | 1508 | 2398 | 3233 | 3718 | 4200 | 5140 | 5768 | 6524 | 7597 | 8324(P) | 9066(Q) | -- |
| 4. | Per Capita Income (at constant prices) (Rs.) | 594** | 1508 | 1507 | 1614 | 1705 | 1815 | 1826 | 1932 | 2114 | 2169 | 2264(P) | 2363(Q) | -- |
| 5. | Output of Important Commodities | | | | | | | | | | | | | |
| | a) Rice-lakh tonnes | 12.98 | 12.72 | 11.73 | 10.13 | 11.41 | 10.87 | 10.60 | 10.85 | 10.04 | 9.75 | 9.53 | 8.71 | -- |
| | b) Coconut-Million Nuts | 3981 | 3008 | 3377 | 4215 | 4358 | 4232 | 4641 | 5124 | 5192 | 5336 | 5155 | 5759 | -- |
| | c) Arecanut-Million Nuts | 12738 | 10805 | 10664 | 11450 | 11964 | 13074 | 13116 | 13643 | 15357 | 17466 | 17429 | 15464 | -- |
| | d) Pepper - 1000 tonnes | 25.03 | 28.52 | 33.12 | 43.24 | 54.14 | 46.80 | 50.31 | 49.67 | 49.55 | 59.26 | 68.57 | 53.77 | -- |
| | e) Rubber - 1000 tonnes | 78.73 | 140.33 | 184.70 | 238.41 | 275.40 | 307.52 | 343.11 | 368.65 | 408.31 | 442.83 | 474.56 | 514.50 | -- |
| | f) Tea-1000 tonnes | 41.45 | 50.72 | 52.63 | 65.77 | 57.08 | 63.42 | 66.80 | 54.44 | 66.69 | 60.72 | 64.80 | 62.59 | -- |
| | g) Coffee - 1000 tonnes | 12.57 | 36.48 | 23.35 | 47.43 | 23.80 | 35.70 | 30.96 | 36.17 | 43.47 | 46.24 | 45.00 | 43.89 | -- |
| 6. | Prices | | | | | | | | | | | | | |
| | a) Wholesale Price index of Agricultural Commodities (Base 1952-53=100) | 222 | 551 | 688 | 957 | 906 | 1028 | 1263 | 1377 | 1550 | 1492 | 1702 | 1923 | 2145* |
| | b) Consumer Price index Number (Base 1970=100)@ | 264 | 202 | 314 | 395 | 413 | 435 | 497 | 553 | 599 | 675 | 759 | 836 | 911 |
| 7. | Plan Outlay (Rs. Crores) (Accounts) | 59.35 | 311.31 | 411.95 | 543.13 | 620.28 | 662.70 | 719.53 | 825.32 | 1091.42 | 1415.92 | 1763.76 | 2200(\$) | 2855(BE) |

P - Provisional Q - Quick Estimate

@ - Relates to calendar year from 1980 onwards. \$ - Pre-actual

* - Average upto June 1997 ** - At 1970-71 prices

State Income

1.17 The State Income in 1996-97 at constant prices is estimated at Rs. 7422 crores as against Rs. 7018 crores in 1995-96, registering a growth rate of 5.8 per cent. At current prices, the State Income in 1996-97 is estimated at Rs. 28479 crores as compared to Rs. 25802 crores in 1995-96. The per capita income at current prices is estimated at Rs. 9066 in 1996-97 as against Rs. 8324 in 1995-96. The per capita income in 1996-97 at constant prices is estimated at Rs. 2363 as compared to Rs. 2264 in 1995-96 registering a growth rate of 4.4 per cent. The per capita income of the state continues to lag behind the national average.

1.18 The sectoral distribution of income shows that the tertiary sector continues to dominate the State Income followed by the primary sector. The contribution of the tertiary sector has increased from 42.2 per cent in 1995-96 to 43.9 per cent in 1996-97. The share of primary sector has declined from 33.7 per cent in 1995-96 to 31.4 per cent in 1996-97, while that of the secondary sector remained more or less unchanged.

1.19 Unemployment continues to be a serious problem of the state. The number of job seekers on the live registers of the employment exchanges continues to be very large with the latest figure being 35.19 lakhs as on 30.09.97. An important aspect about the unemployment situation in Kerala is that about 76 per cent of the job seekers are having an educational qualification of S.S.L.C. or above. No less important it is to note that 54.5 per cent of the job seekers are women.

1.20 Employment in the organised sector increased from 6.20 lakhs in the public sector and 5.52 lakhs in the private sector in 1995-96 to 6.25 lakhs in the public sector and 5.54 lakhs in the private sector in 1996-97. Placement through employment exchanges in 1996-97 stood at 28268 as against 16996 in 1995-96.

Price Situation

1.21 The general price level during the year under review has shown a down trend in terms of inflation rate. The Consumer Price Index declined by 2.3 per cent in 1996 from 12.44 per cent in 1995 to 10.14 per cent in 1996 and again by 1.17 per cent to 8.97 per cent in 1997. The Wholesale Price Index for agricultural commodities during the period January to June 1997 reflected an increase of 14.3 per cent over the corresponding period of the previous year.

Agriculture

1.22 The agriculture sector continued to witness positive growth in the last five years in

succession. The average growth rate during the Eighth Five Year Plan period was 4.9 per cent, which was largely contributed by two crops, coconut and rubber. Buoyed by the favourable weather conditions, the growth rate remained consistently positive during the last five years. Commercial crops in general with the exception of tea, cardamom and pepper recorded increases in production. Production of coconut and rubber reached new peaks in 1996-97. The increase in production has mainly been made possible by improvement in productivity.

1.23 An important feature of the agricultural economy of the State during the last two years has been the significant increase in the production of coconut and rubber. Coconut production which remained consistently below 5000 million nuts for over one decade during the period upto 1991-92 has recovered to reach 5336 million nuts during 1994-95 and to 5759 million nuts in 1996-97. The price situation registered some improvement during the latter half of 1997. Production of rubber also reached a new high of 5.14 lakh tonnes, while that of coffee declined from 45000 tonnes in 1995-96 to 43890 tonnes in 1996-97. However, production of Cardamom declined from 5380 tonnes in 1995-96 to 4736 tonnes in 1996-97.

1.24 Area under rice and production of rice continued to decline. The area declined from 4.71 lakh ha. in 1995-96 to 4.31 lakh ha. in 1996-97. Rice production continues to fall which declined from 9.53 lakhs tonnes in 1995-96 to 8.71 lakh tonnes in 1996-97. The decline in production seen in tandem with the fall in area under rice cultivation is a matter which would require necessary corrective measures, both institutional and technological, so as to prop up the production level. The State Government have appointed a Committee in 1997 to study the special problems connected with rice cultivation and to suggest measures for arresting diversion of paddy lands. The poor performance is partly attributable to the low coverage of high yielding varieties (HYV). Out of the gross cropped area of 4.31 lakh ha. the coverage of HYV is just 1.53 lakh ha. which represents only 37.3 per cent of the cropped area.

1.25 Non-food crops by and large performed well, with production of most of the crops showing improvement. Production of rubber increased from 4.76 lakh tonnes in 1995-96 to 5.14 lakh tonnes in 1996-97. Cashewnut from 82759 tonnes to 78439 tonnes, Ginger from 46455 tonnes to 52614 tonnes. The crops which recorded fall in production were Tea from 64801 tonnes in 1995-96 to 62593 tonnes in 1996-97, Coffee from 45000 tonnes to 43890 tonnes, Arecanut from 17429 million nuts to 15464 million nuts and Turmeric from 9559 tonnes to 8413 tonnes during the same period.

Livestock

1.26 Kerala accounts for 1.75 per cent of the total cattle population in the country. About 67% of the breedable cattle in the State is cross-bred, made possible by expanding the facilities and veterinary services. So far, 2293 Artificial Insemination Centres have been established. During 1996-97, 11.51 lakh artificial inseminations were done. The embryo transfer technology introduced in the recent past is yet another step towards livestock development. As a result of these, milk production increased from 10.78 lakh tonnes in 1982-83 to 23.79 lakh tonnes in 1996-97. Milk production in Kerala during the last two decades registered 9.3 per cent growth as against 4.7 per cent at the national level. The percapita availability of milk increased from 169 gms. to 208 gms. Of late, the demand for milk has also increased considerably with the result that internal supply is not adequate to meet the demand.

1.27 The Kerala Milk Marketing Federation, the implementing agency for Operation Flood Programme, operates through 1814 Anand pattern co-operative societies (APCOS) with a membership of 5.17 lakhs. With the commissioning of North Kerala Dairy Project, the entire state has been brought under the network of APCOS for procurement of milk.

1.28 Production of eggs has gone up from 1605 million in 1991-92 to 2069 million in 1996-97.

Fisheries

1.29 The total fishermen population in the State in 1996-97 is estimated at 9.99 lakhs. Fishing activities in the State are still concentrated in inshore part of the marine sector. The potentials of the offshore (deep sea) area and inland areas remain largely unexploited. The inland sector with a potential water spread of 3.6 lakh ha. accounts for only about 0.52 lakh tonnes, about, 7.96 per cent of the total fish catch in the state in 1996-97. In order to expand the coverage of inland fisheries, a new project for the development of culture fisheries in five reservoirs of the irrigation projects has been launched in the State.

1.30 The total fish catch during 1996-97 was 6.53 lakh tonnes, as against 5.32 lakh tonnes in 1995-96. Out of the total catch in 1995-96, the share of marine sector was 6.01 lakh tonnes, and that of the inland sector was 0.52 lakh tonnes.

1.31 The export of marine products from Kerala in 1996-97 stood at 0.92 lakhs tonnes valued at Rs. 936.22 crores, out of the total export of 3.78 lakh tonnes from the whole country valued at Rs. 4121.36 crores. Thus, Kerala's share in the total exports from the country was 24.3 per cent in terms of quantity and 22.7 per cent in terms of value in 1996-97.

Irrigation

1.32 The cumulative investment on irrigation amounts to Rs. 2090 crores, out of which about 70% is on major and medium irrigation projects. The total irrigation potential created so far is 4.19 lakh ha. (net) and 6.76 lakh ha. (gross).

1.33 Of the cumulative investment of Rs. 2090 crores, that on major and medium irrigation projects amounts to Rs.1459 crores, with an irrigation potential of 2.16 lakh ha. (net) and 4.35 lakhs ha. (gross) as on 3/97. The Eighth Plan envisaged completion of eight major and medium irrigation projects out of which only four projects could be completed. Muvattupuzha irrigation project has been partially commissioned. Against the target of 1,48,000 ha. of irrigation potential fixed during the Eighth Plan, the achievement was only 33626 ha. for which the investment amounted to Rs. 581.62 crores. The total investment originally estimated for 19 ongoing projects at the beginning of the Eighth Plan was Rs.198 crores with an ayacut of 3.48 lakh ha. The average cost worked out to Rs.5770 per ha. at that time. But as per the latest estimates the anticipated investment for these projects is of the order of Rs.2724 crores and the average cost works out to Rs.81093 per ha. At this rate, the viability of irrigation projects would need to be re-examined before taking investment decision in future.

1.34 The area brought under irrigation through minor irrigation schemes including ground water sources as at the end of 1996-97 was 2.03 lakhs ha. (net) and 2.41 lakhs ha. (gross).

1.35 Anti-sea erosion works, implemented with 50% central support upto the beginning of the Eighth Five Year Plan, is at present being implemented as a State Scheme. As a result the coverage of activity had to be scaled down. Upto 3/96, 344.47 Km. of new sea wall were constructed and reformation works of 73.52 kms. of old seawall were carried out. Till the end of 1996-97, the expenditure on anti-sea erosion works amounted to Rs. 184.20 crores.

Command Area Development

1.36 Command area development, with 50% central support, is implemented in the commands of 14 completed projects. During 1996-97 field channels were constructed to benefit 14402 ha. varabandi system covered 3721 ha. 106 beneficiary farmers associations were formed and 384 training programmes were arranged and demonstration covered 8795 ha. The programme has to be activated with vigour with people's participation to enable the farmers realise the benefits of the irrigation potential created.

State Income

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1.19 Unemployment continues to be a serious problem of the state. The number of job seekers on the live registers of the employment exchanges continues to be very large with the latest figure being 35.19 lakhs as on 30.09.97. An important aspect about the unemployment situation in Kerala is that about 76 per cent of the job seekers are having an educational qualification of S.S.L.C. or above. No less important it is to note that 54.5 per cent of the job seekers are women.

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1.23 An important feature of the agricultural economy of the State during the last two years has been the significant increase in the production of coconut and rubber. Coconut production which remained consistently below 5000 million nuts for over one decade during the period upto 1991-92 has recovered to reach 5336 million nuts during 1994-95 and to 5759 million nuts in 1996-97. The price situation registered some improvement during the latter half of 1997. Production of rubber also reached a new high of 5.14 lakh tonnes, while that of coffee declined from 45000 tonnes in 1995-96 to 43890 tonnes in 1996-97. However, production of Cardamom declined from 5380 tonnes in 1995-96 to 4736 tonnes in 1996-97.

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1.28 Production of eggs has gone up from 1605 million in 1991-92 to 2069 million in 1996-97.

Fisheries

1.29 The total fishermen population in the State in 1996-97, is estimated at 9.99 lakhs. Fishing activities in the State are still concentrated in inshore part of the marine sector. The potentials of the offshore (deep sea) area and inland areas remain largely unexploited. The inland sector with a potential water spread of 3.6 lakh ha. accounts for only about 0.52 lakh tonnes, about, 7.96 per cent of the total fish catch in the state in 1996-97. In order to expand the coverage of inland fisheries, a new project for the development of culture fisheries in five reservoirs of the irrigation projects has been launched in the State.

1.30 The total fish catch during 1996-97 was 6.53 lakh tonnes, as against 5.32 lakh tonnes in 1995-96. Out of the total catch in 1995-96, the share of marine sector was 6.01 lakh tonnes, and that of the inland sector was 0.52 lakh tonnes.

1.31 The export of marine products from Kerala in 1996-97 stood at 0.92 lakhs tonnes valued at Rs. 936.22 crores, out of the total export of 3.78 lakh tonnes from the whole country valued at Rs. 4121.36 crores. Thus, Kerala's share in the total exports from the country was 24.3 per cent in terms of quantity and 22.7 per cent in terms of value in 1996-97.

Irrigation

1.32 The cumulative investment on irrigation amounts to Rs. 2090 crores, out of which about 70% is on major and medium irrigation projects. The total irrigation potential created so far is 4.19 lakh ha. (net) and 6.76 lakh ha. (gross).

1.33 Of the cumulative investment of Rs. 2090 crores, that on major and medium irrigation projects amounts to Rs.1459 crores, with an irrigation potential of 2.16 lakh ha. (net) and 4.35 lakhs ha. (gross) as on 3/97. The Eighth Plan envisaged completion of eight major and medium irrigation projects out of which only four projects could be completed. Muvattupuzha irrigation project has been partially commissioned. Against the target of 1,48,000 ha. of irrigation potential fixed during the Eighth Plan, the achievement was only 33626 ha. for which the investment amounted to Rs. 581.62 crores. The total investment originally estimated for 19 ongoing projects at the beginning of the Eighth Plan was Rs.198 crores with an ayacut of 3.48 lakh ha. The average cost worked out to Rs.5770 per ha. at that time. But as per the latest estimates the anticipated investment for these projects is of the order of Rs.2724 crores and the average cost works out to Rs.81093 per ha. At this rate, the viability of irrigation projects would need to be re-examined before taking investment decision in future.

1.34 The area brought under irrigation through minor irrigation schemes including ground water sources as at the end of 1996-97 was 2.03 lakhs ha. (net) and 2.41 lakhs ha. (gross).

1.35 Anti-sea erosion works, implemented with 50% central support upto the beginning of the Eighth Five Year Plan, is at present being implemented as a State Scheme. As a result the coverage of activity had to be scaled down. Upto 3/96, 344.47 Km. of new sea wall were constructed and reformation works of 73.52 kms. of old seawall were carried out. Till the end of 1996-97, the expenditure on anti-sea erosion works amounted to Rs. 184.20 crores.

Command Area Development

1.36 Command area development, with 50% central support, is implemented in the commands of 14 completed projects. During 1996-97 field channels were constructed to benefit 14402 ha. varabandi system covered 3721 ha. 106 beneficiary farmers associations were formed and 384 training programmes were arranged and demonstration covered 8795 ha. The programme has to be activated with vigour with people's participation to enable the farmers realise the benefits of the irrigation potential created.

Energy

1.37 The installed capacity as at the end of the year 1996-97 was 1509 MW. The total energy generated during the year was 5503 MU in 1996-97. The power purchased from the central pool had gone up from 2638 MU to 3298 MU in 1996-97. The number of consumers have increased from 48.86 lakhs in 1994-95 to 49.23 lakhs in 1996-97.

1.38 With the commissioning of two power projects the installed capacity has gone up to 1797 MW by January 1998.

1.39 The cumulative investment for power development upto the end of 1996-97 amounts to Rs. 3233 crores. The outlay during 1996-97 is Rs. 567 crores. The energy sold during 1996-97 stood at 7021 MU. The T&D losses stood at 19.96 per cent. Revenue realised by the sale of power amounted to Rs. 955.91 crores in 1996-97. The Board has run into severe financial problems in 1997-98 so much so that the plan expenditure is likely to be much less than the amount allocated. Immediate attention has to be given to prop up the revenue position of the Board in order to enable it to complete the programmes on hand in a time bound manner and to relieve power shortage.

1.40 Power shortage continues to be a major bottleneck for the development of the State. The existing demand-supply gap for energy is 1907 MU. The per capita consumption of electricity in the State is 224 KWH which is the lowest among the southern States. Dependence on hydroelectric power and the undue delay in commissioning of the projects taken up for implementation have mainly contributed to the shortage in power. An appropriate hydel thermal mix and implementation of short gestation power generating units has to be given urgent attention. Besides, in view of the constraints of resources faced by the State Government to mobilise funds for the massive investment required for setting up power plants, private sector participation for power development needs every encouragement. The steps taken so far in this regard may have to be stepped further not only to attract more private sector participation but also to ensure early implementation of approved projects.

Industry

1.41 The industrial sector performed reasonably well during 1996-97. However there has been a slow down in the rate of growth compared to 1995-96. This slow down has reflected in the growth in State income which marginally declined in 1996-97, compared to 1995-96 levels. Shortage of power was the most important factor causing periodic layoffs adversely affecting the production process thereby affecting output and growth.

1.42 With the financial support of Kerala State Industrial Development Corporation (KSIDC), 49 projects involving a total investment of Rs. 184 crores on large and medium industries could be commissioned. Another 112 projects costing Rs. 707 crores were under various stages of implementation. The KSIDC signed MOUs for establishing 54 projects with private sector firms with a total investment of Rs. 5437 crores. Among the 44 State Public Sector undertakings, 29 companies have furnished details, out of which, 16 units were working on profit during 1996-97. Those units together earned a total profit of Rs. 23.75 crores during the year.

1.43 The major projects taken up by Kerala Industrial Infrastructural Development Corporation (KINFRA), are Export Promotion Industrial Park at Kochi, International Apparel Park at Thiruvananthapuram, Integrated Infrastructure Development Centre at Thiruvananthapuram, KINFRA Techno Industrial Park at Malappuram and the Integrated Industrial Township at Palakkad. These parks when completed, should attract a good number of plants and establishments and create employment.

1.44 Technopark constructed industrial modules of 60,000 sq. ft. and was fully occupied by various units. A new building with four lakh sq. feet was inaugurated in April 1997. So far 29 companies have come forward to set up units in the campus. Of these 19 companies are already in position employing about 2000 persons. The earth station in Technopark is operated by the Central Government's Software Technology Park (STP) based in Thiruvananthapuram. In the complex run directly by the STP in Thiruvananthapuram, 19 small software firms are already operating.

1.45 Recognising the emerging trend in the Information Technology field and its extreme importance, steps have been taken to formulate an Information Technology Policy for the State for which a Core Committee has been constituted.

1.46 The number of working factories rose from 15,799 in 1995 to 16406 by the end of 1996. The number of workers employed increased from 4.01 lakhs to 4.14 lakhs during the period. The number of industrial disputes declined to 5274 in 1996-97 from 5874 in the previous year.

1.47 During 1996-97, 17421 small scale industries were newly registered. The total investment in these units amounted to Rs. 330.81 crores. The total number of small scale units stood at 160544 providing employment to 8.40 lakh persons. The new units registered in 1996-97 provided employment to 64660 persons. The Kerala Financial Corporation sanctioned an amount of Rs. 215.50 crores to 3065 units during 1996-97, out of which Rs. 72.83 crores were to small scale units.

1.48 The traditional industries, by and large, have shown reasonable growth in output and income, even though many of them were beset with a variety of problems. Coir sector, the major traditional industry in the State provides employment to about four lakh workers, of whom as many as 84 per cent are women. As on 31.3.97, there were 679 coir co-operative societies. The measures taken for implementing the Integrated Coir Development Project aimed at modernising the coir industry has given a new lease of life to this vital traditional industry in the state. Under this programme, mechanised defibering mills and motorised spinning units, with financial support from Government of India and NCDC, have been started. Export earnings of coir and coir products in 1996-97 stood at Rs. 210.57 crores as compared to Rs. 206.85 crores in 1995-96. Handloom industry provides employment to about two lakh workers. Eventhough the industry has shown improved performance, in terms of the number of looms acquired, production of cloth etc., the major problem of unsold stock of handloom cloth continues to persist. By the end of March 1996, the accumulated unsold stock of handloom cloth amounted to Rs. 37.65 crores as compared to Rs. 32.42 crores in the previous year. Shortage of raw cashewnut continued to be the main problem faced by the cashew industry. About 192285 M. tonnes of raw cashew was imported during 1996-97. Export earnings through the export of cashew kernels and cashew shell liquid amounted to Rs. 1283 crores during 1996-97. The net foreign exchange earnings amounted to Rs. 642.45 crores.

1.49 The progress of sericulture development has been far below the expected level. Against the Eighth Plan target of bringing 50,000 acres of land under mulberry cultivation, the achievement was only 1476 acres till the end of 1996-97. In 1997, area under mulberry increased to 2776 acres. With a view to activate the programme, a new organisation called The Kerala State Sericulture Co-operative Federation (SERIFED) has been set up. SERIFED has initiated steps for reviving the sericulture programmes, which seems to be making a good impact.

1.50 The share of central sector investment at 1.28 per cent in 1995, the period for which information is available registered a marginal decline from 1.29 per cent achieved in 1994. The total Central sector investment in the country has increased from Rs. 198912 crores in March 1994 to Rs. 227349 crores in March 1995, showing an increase of Rs. 28437 crores. Out of this, Kerala received only Rs. 340 crores, constituting just 1.19 per cent of the incremental investment. In absolute terms, central sector investment went up from Rs. 2566 crores in 1994 to Rs. 2906 crores in 1995.

Transport

1.51 Kerala enjoys a fairly well developed transport network. But in several places, the road network, road width etc. are not adequate to accommodate the fast growing motor vehicle population. Total road length in the State in 1996-97 was 1.45 lakh Kms. and the total number of motor vehicles stood at 13.29 lakhs in 1996-97 compared to 11.70 lakhs in the previous year. Out of 48044 passenger buses and stage carriages in the State as on 31.03.1996, 3750 buses were owned by KSRTC.

1.52 Kollam, Kochi-Kottapuram stretch of West Coast Canal along with the Champakara Canal and Udyogamandal Canal was declared as National Water Way No. III by Central Government.

Tourism

1.53 Tourism Department and the Kerala Tourism Development Corporation (KTDC) are the two Government agencies engaged in tourism promotion in the State. Foreign tourist arrivals in the State during 1996 were 1.59 lakhs as compared to 1.13 lakhs in the previous year, registering an increase of 11 per cent. The total tourists including domestic arrivals in 1996 stood at 45.24 lakhs compared to 40 lakhs in 1995 registering an increase of 11.3%. With a view to give the necessary push to tourism in the state, attention is being given to promotional aspects of the tourism related activities.

1.54 KTDC runs a chain of hotels, motels, Yatrinivas etc. Priority is being given to infrastructural development and marketing as part of the overall tourism development. The Bakel Resorts Development Corporation has been formed for implementing a comprehensive tourism programme for the Bakel Fort and adjoining areas. It has initiated steps for the development of the area and acquired 60 acres of land to start with.

Education

1.55 Kerala has achieved the highest effective literacy rate in the country. According to 1991 Census Kerala's literacy rate was 89.81 per cent as compared to the all India average 52.21 per cent. The female literacy rate was 86.17 per cent in Kerala compared to the national average of 39.29 per cent.

1.56 During 1996-97 there were 12274 schools in the State, out of which, 4457 (36.31%) were Government Schools, 7307 (59.53%) private aided schools and 510 (4.16%) private unaided schools.

1.57 The total number of schools consisted of 6726 Lower Primary Schools, 2968 Upper Primary and 2580 High Schools, in addition to the LP and UP sections attached to the UP and High Schools.

1.58 The School enrolment in 1996-97 declined to 55.34 lakhs compared to 56.27 lakhs in the previous year. The number of teachers in the year under review was 1.88 lakhs. The teacher pupil ratio is 1:29. The number of uneconomic schools with enrolment less than 25 per standard, a peculiar phenomenon witnessed in Kerala, stood at 1407 in 1997, comprising 625 Government Schools and 782 private aided schools. Correspondingly, the number of protected teachers was 2239 in 1996-97.

1.59 There are seven Universities and 186 Arts and Science Colleges in the State. Out of the total number of colleges, 38 are government colleges and 148 are private colleges. 46 colleges were affiliated to Kerala University, 62 colleges were affiliated to Mahatma Gandhi University, 60 colleges to Calicut University and 18 colleges to Kannur University. In addition, there were 25 unaided colleges in the state. Enrolment of students at the University level stood at 3.43 lakhs out of which girl students accounted for 2.03 lakhs. The teaching faculty had a total strength of 13276 in 1997.

1.60 Private registration for various courses in the three Universities of Kerala, Mahatma Gandhi and Calicut in 1997 stood at 1.47 lakhs.

1.61 Technical education in the state consisted of 15 Engineering Colleges, comprising of four Government Colleges, three private aided colleges, one Regional Engineering College, six Self Financing Colleges and one Model Engineering College, 38 Polytechnics and 39 Technical High Schools. The total enrolment in Engineering Colleges stood at 5156 in 1997.

1.62 The total expenditure on education in 1996-97 amounted to Rs. 1810 crores as against Rs. 1652 crores in the previous year. Out of Rs. 1810 crores, Rs. 890 crores was spent on primary education, Rs. 547 crores on secondary education, Rs. 287 crores on University and Higher Education and Rs. 86 crores on Technical Education.

1.63 Even though there has been considerable increase in the expenditure on education, there has not been a corresponding increase in the quality of education. The expenditure is almost entirely on establishment, leaving very little for quality improvement. With the existing levels of budget allocations, and given the financial constraints of the State Government, the scope for appreciably increasing the budget provision for improving the quality is rather limited. Resource mobilisation through higher cost recovery, without adversely affecting the access of weaker sections to education, may have to be resorted for meeting the increasing expenditure needed for quality improvement.

Health

1.64 Kerala has made notable achievements in healthy standards as reflected in the attainment of low infant mortality rate, low maternal mortality rate, low birth rate, low death rate, high life expectancy etc. The decadal growth rate (1981-91) in population was 14.32% as against the national average of 23.5%. These achievements are far ahead of the national average. This has been made possible through a wide network of health infrastructure, female education, general health consciousness and clean health habits of the people.

1.65 The public sector health care facilities in the Government sector in the state consist of 150 hospitals, comprising five Medical College Hospitals, five General Hospitals, 11 District Hospitals, 42 Taluk Hospitals, 69 Intermediate Hospitals, eight Women and Child Hospitals, three Leprosy Hospitals, three TB Hospitals, three Mental Hospitals one Regional Cancer Centre and one Ophthalmic Hospital. The Ophthalmic Hospital, Thiruvananthapuram has been converted into Regional Institute of Ophthalmology. The total bed strength in these hospitals put together were about 43165. The number of beds in the Government sector per lakh of population stood at 137 during 1997. Similarly there were 24,122 medical and paramedical personnel with the department of health services and 1699 with the Medical Education Department. Medical Education and Training is offered through six Medical Colleges, two Dental Colleges and three Nursing Colleges. In the non governmental sector there were 4288 Allopathic Hospitals, 4922 Ayurveda Hospitals and 3118 Homeopathic Institutions with a bed strength of 70510 in 1996-97.

1.66 In the field of Ayurveda there were 108 hospitals with 2349 beds and 614 dispensaries under Government Sector. There are five Ayurveda Colleges in the State, three in the Government Sector and two in the Private Sector, with an annual intake of 170 students for BAMS. MD Course is imparted only at the Ayurveda College, Thiruvananthapuram with an intake of 42 candidates.

1.67 During 1996-97 there were 31 Homoeopathic Hospitals with 950 beds and 405 dispensaries. Two clinical laboratories, one attached to the District Homoeo Hospital, Thodupuzha and the other at District Homoeo Hospital, Pushpakandom, were started during 1995-96 and one rehabilitation centre for mentally retarded attached to Government Homoeo Hospital, Thiruvananthapuram. There are four Homoeo Medical Colleges in the State of which two are in the Government Sector and two in the private sector.

1.68 The Family Welfare Programmes in the state are implemented through a network of 956 Primary Health Centres and 5094 sub-centres. The present couple protection rate in the state is 64.3 as against the all India average of 45.8.

1.69 The total expenditure on health stood at Rs. 514 crores in 1996-97. The per capita expenditure on health has increased from Rs. 161 in 1995-96 to Rs. 163.12 in 1996-97.

1.70 Just as in education, the quality of health service could be considerably better as the demand for medical and health care mounts if only the State Government could allocate the required funds for quality improvement. To mobilise funds for improving the quality of health standards in the State, appropriate costing may have to be considered, in the fixation and collection of user charges.

Housing

1.71 According to 1991 census, there were 54.59 lakh houses and 55.13 lakh households in the state resulting in a numerical shortage of 54000 houses. The total demand for houses projected for 2000 A.D. is 16 lakhs. As significant aspect of housing policy in recent years has been to address particularly the requirements of weaker sections. Out of the total of 6.55 lakh families assisted during 1986 to 1997, as much as 28926 were assigned land free of cost. Another significant aspect is the increasing role of institutional finance for funding the housing programmes.

1.72 There are about 30 agencies involved in housing in the State, the major ones being Revenue Department, Kerala State Housing Board, Finance Department, Kerala State Development Corporation for Scheduled Castes and Scheduled Tribes, State Co-operative Housing Federation etc.

1.73 Housing Board is the major public agency which implements about 31 housing schemes. As on 31.3.97 the Board has constructed/assisted 3.44 lakh houses under various schemes. During April-November 1997, 24254 houses were constructed by the Housing Board. The Co-operative Housing Federation extended financial assistance for the construction of 83,695 houses as on 31.03.1996. The Kerala State Development Corporation for SC/ST assisted construction of 36741 houses upto 31.3.1996. A new housing Scheme, viz. Maithri Housing Scheme for the weaker sections was introduced in 1997-98 with a financial outlay of Rs. 35 crores.

Water Supply

1.74 As on 30.11.97, 1412 rural water supply schemes and 50 urban water supply schemes were under implementation, besides 1255 small

schemes and extensions exclusively benefiting Scheduled Castes/Scheduled Tribes. According to the latest estimates, 52% of the State's rural population and 74.89% of the urban population could be provided with protected drinking water supply. The rural coverage increased from 83.3 lakhs in 1992-93 to 111.9 lakhs in 1996-97. About 6.32 lakh houses have been connected with piped water supply. There were 1.35 lakh stand posts in 1997.

1.75 The Ninth Five Year Plan envisages 100 percent coverage of protected water supply in the State by the year 2002. The LPCD consumption for urban area is proposed to be increased from 70 to 150 and in rural areas from 40 to 55. But to achieve this the projected investment is of the order of Rs. 2262 crores at 1997 prices. Mobilisation of resources through institutional sources more realistic user charge policy are crucial for achieving this order of investment.

Institutional Finance

1.77 There has been a sharp decline in the credit-deposit (CD) ratio of the commercial banks in the State, in recent years. The CD ratio has declined from 64.77 in March 1988 to 44.9 in September 1997. The most disturbing aspect about the sharp decline in the CD ratio, apart from its impact on development in general, is the fall in credit flow to priority sector areas vital to the economy of the State. Kerala's share of assistance sanctioned by All India Financial Institutions has declined further. As on 31.3.1996, the share was only 1.02% next only to Assam and Bihar. The fall in credit-deposit ratio and the very low share of assistance sanctioned by All India Financial Institutions have hampered the general investment tempo in the State which is faced with a very high rate of unemployment. Needless to say that unless investment, that too of the right type, takes place on a substantial scale, the economic growth of Kerala would be difficult to accelerate and the gap in the per capita income in relation to the national per capita income would be hard to bridge fast.

Plan Outlay

1.77 The Plan implementation in the State has steadily improved from year to year since the commencement of the Eighth Five Year Plan. Kerala had a distinction of having achieved the Eighth Plan outlay of close to 100 percent in real terms. The outlay for the State's Ninth Five Year Plan is Rs.16,100 crores. This is 195 percent higher than the outlay for the Eighth Five Year Plan.

1.78 The proposed plan outlay for 1998-99 is provisional. Consequent on the dissolution of the Lok Sabha, the Union Planning Commission has postponed the discussions for finalising the Annual

Plans. So a final view on the size of the States's Annual Plan 1998-99 is yet to be taken. To that extent the plan outlay to be budgeted is tentative. The process of decentralised planning launched by the State Government during 1997-98 had meant a major change in the approach to the planning and development. The enthusiasm generated among the countryside and the masses is also a reflection of the new approach to development and a realisation that the problems of the people can best be addressed by themselves by participating in planning and development. It has also revealed that those who fall back and take no so keen an interest in the new concept are likely to lose out in that race for economic development, as the solutions to the problems that are directly faced by the people rest on the initiative they themselves take. About 36 per cent of the budgeted outlay for the Annual Plan 1998-99 will be transferred to the Local Bodies. Objective criteria, by providing appropriate weightage for backwardness have been evolved for deciding the inter tier allocation of the amount devolved.

1.79 In order to make decentralised Planning meaningful during the Ninth Plan and to equip the Panchayat Raj Institutions to formulate, implement and monitor development programmes, a People's Campaign was launched in August 1996 throughout the State. The objective of this campaign is to ensure people's participation at all stages right from preparation of shelf of projects, prioritise them in a scientific manner so that the programmes for the Ninth Plan and the Annual Plan could be selected from them for implementation. The campaign commenced with training to selected resource persons, followed by data collection, Grama Sabha/Ward conventions, development seminars, formation of Task Forces for Scheme preparation etc. The plan formulation and implementation for 1998-99 will continue to be in the Campaign mode given the fact that the functionaries of the local bodies exposed for the first time require further sharpening of their lessons in planning and development as otherwise the efforts

taken so far if left incomplete will not have the desired result. The Peoples Plan Campaign launched by the State Government have been widely acclaimed, nationally and internationally as evidenced by the delegations that have been visiting the State. Further, as a recognition of the new experiment initiated by the State Government, Central Government had sanctioned Rs.1.85 crores in 1996-97 for meeting the expenses connected with the Campaign. The Planning Commission has again sanctioned Rs.3 crores this year for the same purpose.

1.80 In general the economy performed reasonably well and the rate of growth during the year under review was 5.8% which was slightly more than the rate of growth projected for the 8th plan. The improvement witnessed in the 8th Plan period has not been enough to make a dent on the chronic and fundamental problems facing the economy of the State, Unemployment continues to be at unacceptably higher levels. Crisis on the energy front continues to be serious as reflected in the inability to lift load shedding throughout the year. Power cuts could be reduced only through import of power from the Eastern Grid. But the reported power shortage faced by a neighbouring state is likely to put pressure on the power situation in the State. Measures to implement and commission short gestation power projects alongwith private participation will have to be given priority as otherwise, the development process will be seriously hampered. Industrial development must be accelerated and public sector enterprises must start functioning efficiently and at profit. Agriculture has to be made more diversified and linked to increasing agro processing. Local level initiatives in commodity production and employment generation and provision of essential services have to be promoted to the fullest which the new decentralised set up is likely to take care of. Appropriate policies, institutional reforms, speedy decision-making, good public management and fostering of a climate favourable for savings and investment are essential to sustained progress in the State's development.

INCOME, EMPLOYMENT AND POPULATION

NATIONAL INCOME

The Gross Domestic Product (GDP) at constant price is estimated to have grown at 7.5 percent during 1996-97 as against 7.2 percent during 1995-96. In absolute terms real GDP (1980-81 prices) is estimated at Rs.296845 crores in 1996-97 compared to Rs.276132 crores in 1995-96. High growth in GDP is mainly due to 8.2 percent growth in agriculture in 1996-97 against a negative growth of 3.2% in 1995-96. Growth in the manufacturing sector decelerated to 7.4% in 1996-97 against the growth rate of 14.1 percent in 1995-96. In construction, trade, hotels and restaurant, finance and insurance also growth decelerated during 1996-97.

2.2 GDP in 1996-97 at current prices is estimated at Rs.1149215 crores against Rs.1006286 crores in 1995-96, an increase of 14.2 percent. National income (1980-81 prices) is estimated at Rs.258465 crores in 1996-97 as against Rs.239957 crores in 1995-96 representing an increase of 7.7 percent. National income at current prices is estimated at Rs.10.08 lakh crores against Rs.8.81 lakh crores in 1995-96 which shows an increase of 14.4 percent.

2.3 The per capita income in 1996-97 (1980-81 prices) is estimated at Rs.2761 against Rs.2608 in 1995-96 registering an increase of 5.9 per cent. At current price per capita income is estimated at Rs.10771 against Rs.9578 for the previous year, increase being 12.4 per cent. Table 2.1 shows the major sectoral growth rates in 1996-97 and 1995-96.

Table 2.1

Growth Rate of GDP
(1980-81 prices)

| Items | Growth Rate(%) | |
|-----------------------------------------------------------|----------------|---------|
| | 1995-96 | 1996-97 |
| 1. Gross Domestic Product | 7.2 | 7.5 |
| 2. Per capita Income | 5.1 | 5.9 |
| 3. Agriculture, Forestry and Fishing | -3.0 | 7.9 |
| 4. Manufacturing | 14.0 | 7.4 |
| 5. Electricity, Gas and Water Supply | 7.3 | 5.0 |
| 6. Construction | 9.7 | 5.2 |
| 7. Trade, Hotels and Restaurants | 15.4 | 8.4 |
| 8. Financing, Insurance, real estate and business service | 9.7 | 8.7 |

STATE INCOME

2.4 The State Domestic Product at constant prices in 1996-97 is estimated at Rs.7422 crores as against Rs.7018 crores during 1995-96, the growth rate being 5.8 per cent. The growth rate during 1995-96 was also 5.8 per cent at constant prices. The performance of the economy during 1996-97 as in the preceding year exceeded the projected average growth rate for the Eighth Plan period.

2.5 The per capita income of the state at current prices increased from Rs.8324 in 1995-96 to Rs.9066 in 1996-97. At constant (1980-81) price, the state per capita income is estimated at Rs.2363 in 1996-97 as against Rs.2264 in 1995-96; the growth rate being 4.4 percent as against national per capita income growing at 5.9%. Clearly the growth rate of state per capita income in recent years is not enough if the state wants to catch up with the national per capita income level. The state per capita income at constant prices was 86 percent of the national per capita income in 1996-97. Table 2.2 gives details regarding state domestic product and per capita income.

Table 2.2

State Domestic Product

| Items | 1995-96 | | Growth Rate(%) |
|---------------------------------------|---------|---------|----------------|
| | 1995-96 | 1996-97 | |
| 1. State Domestic Product (Rs. crore) | | | |
| i) Constant price(1980-81) | 7018 | 7422 | 5.8 |
| ii) Current price | 25802 | 28479 | 10.4 |
| 2. Per Capita Income (Rs.) | | | |
| i) Constant Price(1980-81) | 2264 | 2363 | 4.4 |
| ii) Current price | 8324 | 9066 | 8.9 |

Sectoral Distribution of State Income

2.6 In the sectoral distribution of state domestic product at current prices, the contribution of agriculture has decreased in 1996-97 to 34.5% from 37.6% in 1995-96. While the share of secondary sector remained almost constant there was a marked increase in the contribution from tertiary sector to 42.3% in 1996-97 from 39.3% in 1995-96. At constant prices too the contribution of agriculture declined from 33.7% in 1995-96 to 31.4% in

1996-97. Income from the secondary sector only marginally increased. Tertiary sector contributed 43.8% in 1996-97, the share of which was 42.2% in 1995-96. While the decline in the relative share of the agriculture sector is not in itself unwelcome symptom of development and growth, it is important to ensure that there is sufficient increase in the share of the secondary sector to give the economy a sustainable material base. Details of sectoral distribution are given in Table 2.3.

Table 2.3
Sectoral share of state domestic product

| Sectors | Year (%) | |
|-------------------|----------|---------|
| | 1995-96 | 1996-97 |
| 1. Primary | | |
| i) Constant price | 33.7 | 31.4 |
| ii) Current price | 37.6 | 34.5 |
| 2. Secondary | | |
| i) Constant price | 24.1 | 24.8 |
| ii) Current price | 23.1 | 23.2 |
| 3. Tertiary | | |
| i) Constant price | 42.2 | 43.8 |
| ii) Current price | 39.3 | 42.3 |

District wise Income

2.7 District-wise distribution of income is deemed as an indicator of the regional disparities of economic development. The district-wise distribution of state income under primary, secondary and tertiary sectors at constant and current prices for the period from 1980-81 to 1996-97 is given in Appendix 2.8.

2.8 An important indicator of relative economic growth between regions, is a region's per capita income. Emakulam district continues to have the highest per capita income followed by Wayanad and Idukki. The per capita income of Ernakulam district at constant prices went up from Rs.3471 in 1995-96 to Rs.3617 in 1996-97. Malappuram continues to have the lowest per capita income of Rs.1369. Here it is important to bear in mind that per capita remittance inflow is estimated to be the highest for Malappuram. The details of per capita income growth rate and rank are given in Table 2.4.

Table 2.5
District-wise Per capita Income
(1980-81 price)

| Districts | Per capita Income (Rs.) | | Growth rate | |
|-----------------------|-------------------------|------|----------------|--------|
| | 1995-96 Rs. | Rank | 1996-97 Rs. | Rank % |
| 1. Thiruvananthapuram | 2274 | 5 | 2369 | 5 4.2 |
| 2. Kollam | 2176 | 9 | 2270 | 8 4.3 |

| | | | | |
|-------------------|------|----|------|--------|
| 3. Pathanamthitta | 2357 | 4 | 2463 | 4 5.5 |
| 4. Alappuzha | 2007 | 12 | 2088 | 12 4.0 |
| 5. Kottayam | 2272 | 6 | 2369 | 5 4.3 |
| 6. Idukki | 2853 | 3 | 3002 | 3 5.2 |
| 7. Emakulam | 3471 | 1 | 3617 | 1 4.2 |
| 8. Thrissur | 2269 | 7 | 2366 | 6 4.3 |
| 9. Palakkad | 2032 | 11 | 2121 | 10 4.4 |
| 10. Malappuram | 1309 | 14 | 1369 | 13 4.6 |
| 11. Kozhikode | 2126 | 10 | 2217 | 9 4.3 |
| 12. Wayanad | 3376 | 2 | 3544 | 2 5.0 |
| 13. Kannur | 2230 | 8 | 2327 | 7 4.3 |
| 14. Kasargod | 2004 | 13 | 2095 | 11 4.5 |

District Variation in Sectoral Growth Rate

2.9 District-wise sectoral growth rate of income at constant price (1980-81) during 1996-97 is given in table 2.6. Idukki district shows the highest growth rate of 6.6 per cent in 1996-97 followed by Wayanad 6.3 percent and Malappuram 5.9 percent. The lowest growth rate at 5.5% is shown in Alappuzha and Thiruvananthapuram districts. In all districts, growth rate in the tertiary sector is almost uniform at 5.2%. But in the secondary sector growth rate varies from 6% in Malappuram to 4.1% in Wayanad. Primary sector growth rate is above 6.6% in all districts against the state average of 6.9% (see Table 2.5).

Table 2.6
District wise growth of Sectoral Income
during 1996-97 (1980-81 price)

| Districts | (Percent) | | | |
|-----------------------|-----------|-----------|----------|-------|
| | Primary | Secondary | Tertiary | Total |
| 1. Thiruvananthapuram | 6.8 | 5.0 | 5.2 | 5.5 |
| 2. Kollam | 6.9 | 5.0 | 5.2 | 5.8 |
| 3. Pathanamthitta | 7.2 | 4.8 | 5.2 | 5.9 |
| 4. Alappuzha | 6.8 | 4.7 | 5.2 | 5.5 |
| 5. Kottayam | 6.6 | 3.8 | 5.2 | 5.7 |
| 6. Idukki | 7.2 | 6.1 | 5.2 | 6.6 |
| 7. Emakulam | 6.8 | 5.4 | 5.2 | 5.6 |
| 8. Thrissur | 6.9 | 5.4 | 5.2 | 5.7 |
| 9. Palakkad | 6.7 | 4.5 | 5.2 | 5.8 |
| 10. Malappuram | 6.8 | 6.0 | 5.1 | 5.9 |
| 11. Kozhikode | 6.8 | 5.2 | 5.2 | 5.7 |
| 12. Wayanad | 6.8 | 4.1 | 5.2 | 6.3 |
| 13. Kannur | 6.7 | 5.4 | 5.2 | 5.8 |
| 14. Kasaragod | 6.7 | 5.4 | 5.2 | 5.9 |
| State | 6.9 | 5.2 | 5.2 | 5.8 |

Unemployment

2.10 The number of unemployed job seekers in the Live Register of employment exchanges has increased from 32.87 lakhs in 1996 to 35.19 lakhs as on 30.9.97 registering an increase of 7.1%.

2.11 Job seekers who register their names in employment exchanges have to renew every three years. In 1995 job seekers registered with Employment Exchanges who did not renew their registration even after 3 years were removed from the live register. Consequently in 1995 there was a drastic decline in the number of job seekers in Kerala. In 1996 as per Government direction the job seekers who lost their registration due to nonrenewal from 31.3.93 were allowed to renew the registration. As a result, there has been repaid rise in the number of job seekers (registrants) in the employment exchange registers. In addition, the upward revision in the unemployment assistance from April 1997 was also an added incentive for more unemployed people registering their names with the employment exchange, thereby contributing to the rise in the number of job seekers.

2.12 Among these job seekers, women outnumber men with 19.2 lakhs (54.5%) female and 16 lakhs (45.5%) male. The distribution of job seekers by educational level is that 76% have qualification of SSLC or above. They include 3.2 lakhs (12%) Pre-degree holders, 1.8 lakhs (6.8%) Degree holders and 36238 (1.4%) Post Graduates. The distribution of job seekers by educational level in Kerala is given in Appendix 2.10.

2.13 Thiruvananthapuram district with 6.3 lakhs (17.8%) continued to be on the top as regards the number of unemployed registrants followed by Kollam with 4.1 lakhs (11.5%), Ernakulam 3.8 lakhs (10.7%), Alappuzha 1.34 lakhs (8.9%), and Pathanamthitta with 3.1 lakhs (8.7%). Wayanad and Kasaragod have the least number of unemployed registrants with 0.67 lakhs (1.9%) and 0.71 lakhs (2%) respectively. The district wise distribution of job seekers is given in Appendix 2.10.

2.14 The number of professional and technical job seekers is also on the increase in 1997. Their number increased from 1.29 lakhs in 1996 to 1.35 lakhs as on 30.9.97. Among the unemployed professional and technical job seekers, 0.94 lakhs (69.6%) belong to ITI certificate holders and 0.30 lakhs (22.2%) Diploma holders. Unemployed medical graduates are 2100 and Engineering graduates are 7452.

Table 2.6

Job seekers in the Employment Exchanges in Kerala

| Year | Job Seekers (No. lakhs) | | |
|-----------------|-------------------------|--------------|-------|
| | General | Professional | Total |
| 1995 | 31.07 | 1.19 | 32.26 |
| 1996 | 31.58 | 1.29 | 32.87 |
| 1997 | 33.84 | 1.35 | 35.19 |
| (Up to 30.9.97) | | | |

Employment in the organised Sector

2.15 Employment in the organised sector increased only marginally from 11.725 lakhs in 1995-96 to 11.786 lakhs in 1996-97. This shows that only 6100 people gained new employment in the organised sector during 1996-97. Out of the total new employment of 6100 in the organised sector, 4500 are in the public sector and only 1600 are in the private sector. This shows the dismal picture of growth in employment in the organised sector, particularly the private sector (see Appendix 2.12)

Placement through Employment Exchange

2.16 Placement through Employment Exchanges increased from 16996 in 1995-96 to 18268 in 1996-97. During the first six months of 1997-98, placement has been provided to 9396 persons. 394 persons per month used the services of employment exchange during 1996-97 against 486 in 1995-96.

Placement through ODEPC

2.17. During 1997, 1641 people registered with Overseas Development and Employment Promotion Consultant Ltd. (ODEPC) for foreign employment. This raised the total number of people registered with the organisation to 7978. Out of them 3738 people have secured job abroad with the help of ODEPC. During 1997, ODEPC has helped 200 people to secure remunerative job abroad. Out of them 38 are nurses, 25 paramedicals, 37 are Technicians and 73 are unskilled workers. Country-wise deployment of personnel shows that 79 are in Singapore, 49 in Saudi Arabia and 41 in Kuwait. Turn over of the travel division of ODEPC was Rs.90.06 lakhs during 1996-97 against Rs.57.16 lakhs in 195-96. (see appendix 2.13)

Unemployment Assistance

2.18 During the first six months of 1997-98 (April - Sept.) unemployment assistance of Rs.2107 lakhs has been disbursed to nearly 2.61 lakh unemployed persons. An amount of Rs.2270 lakhs was disbursed to nearly 2.64 lakh persons during 1996-97. Table 2.7 shows amount disbursed and number of beneficiaries.

Table 2.7

Unemployment Assistance Disbursed and number of beneficiaries

| Year | No. of beneficiaries | Amount disbursed (Rs. lakhs) |
|------------------------|----------------------|------------------------------|
| 1994-95 | 281424 | 2137 |
| 1995-96 | 272371 | 2649 |
| 1996-97 | 264382 | 2270 |
| 1997-98 (Apl.-Sept) | 260696 | 2107 |

Demographic factors

2.19 The population of Kerala according to 1991 Census was 290.98 lakhs, as against 254.54 lakhs in 1981. The decennial growth of population in the State was 14.32 per cent. The period between 1941 and 1971 accounted for high rate of growth in the state's population, the highest being in the decade, 1961-71, when growth was 26.3 per cent. Table 2.8 gives the population and the growth rate since 1901.

Table 2.8

Growth of Population

| Census Year | Population (lakhs) | Decennial growth rate(%) | Geometric growth rate(%) |
|-------------|--------------------|--------------------------|--------------------------|
| 1901 | 63.96 | — | — |
| 1911 | 71.48 | 11.7 | 1.9 |
| 1921 | 78.02 | 9.2 | 0.2 |
| 1931 | 95.07 | 21.8 | 2.0 |
| 1941 | 110.31 | 16.0 | 1.5 |
| 1951 | 135.49 | 22.8 | 2.1 |
| 1961 | 169.04 | 24.8 | 2.2 |
| 1971 | 213.47 | 26.3 | 2.2 |
| 1981 | 254.54 | 19.2 | 1.8 |
| 1991 | 290.98 | 14.3 | 1.4 |

2.20 According to 1991 Census the share of Kerala's population in the country was 3.44 per cent as against a land area of 1.27 per cent. The average population size of a district is 20.78 lakhs in the State as against 18.72 lakhs for the whole country. Within the State also the size of the population varies from 6.72 lakhs in Wayanad to 30.96 lakhs in Malappuram. The density of population was 749 per sq.km. in 1991 the highest after West Bengal. Among the districts, Alappuzha district has the highest density of 1415 persons followed by Thiruvananthapuram (1344) and Ernakulam (1170).

2.21 Kerala has the distinction of being the only state with the sex ratio being favourable to women. In 1991, there were 1036 women for every 1000 men in Kerala against the all India figure of 927.

2.22 The rate of growth of population in Kerala is projected to fall sharply in the coming years. The decennial growth rate of 14.32% is a pioneer to this, when the rate of growth declined significantly by about 5 per cent. According to a recent study conducted by the state it is likely to achieve a zero population growth in about three decades. The decline in fertility rate (1.7 children per fertile woman as of 1993), according to the study, might even lead to short spells of negative population growth. The study also indicates that school age population (children below 15 years) would shrink considerably in the coming decade. All these have far reaching implications for the future development of the State.

2.23 The average size of a household in Kerala, according to 1991 census is 5.3 persons as against 5.6 persons for all India. The literacy rate of 89.81 per cent for Kerala is the highest in the country, against the all India average of 52.21 per cent.

2.24 The rise in job expectations as a result of spread of education is unaccompanied by corresponding increase in employment opportunities within the State has led to a situation of very high levels of, unemployment. The unemployed in the State constitute around 10 per cent of the total unemployed in the country. This has led to large scale migration both within and outside the country.

2.25 A large share of the outmigration is to the foreign countries. Reliable data on migration of people from Kerala are not available. Various studies give varying estimates of the extent of migration, making an analysis of the size and its impact on the State's economy rather difficult.

2.26 The State Department of Economics and Statistics conducted a survey in 1992-93, and attempted on that basis estimates of migration from Kerala to other parts of the country and outside the country. The survey covered 42367 households. According to the survey 11.92 lakh persons were estimated to have migrated from the State, out of which the migration to the Gulf Countries stood at 6.41 lakhs, to other foreign countries 27.5 thousand and to other parts of the country 5.23 lakhs. Distribution of migrants thus estimated is given below.

Table 2.9

Estimated Migrants

| Country/State | Number | Percentage |
|---------------------------------------|---------|------------|
| 1. Gulf Countries | 641387 | 53.79 |
| 2. Other Foreign Countries | 27480 | 2.30 |
| Total Foreign Countries | 668867 | 56.09 |
| 3. Other States and Union Territories | 523456 | 43.91 |
| Total | 1192323 | 100.00 |

2.27 There is general belief that the outmigration is likely to be larger than was estimated on the basis of 1992-93 survey for two reasons. Firstly, the sample size was comparatively small. Secondly there was noticeable reluctance on the part of the people to reveal the truth for various reasons.

2.28 One major reason perhaps was fear of having to disclose the inflow of remittances and the channel of recuring them. The survey also revealed that 75 per cent of the Gulf migrants were in the age group 25-45 and 88 per cent were in the age group 15-45. About 56 per cent of the outmigrants were having qualification below SSLC. Similarly about 67 per cent of the migrants to Gulf Countries had qualification below SSLC.

2.29 As regards remittance by the migrants, the information available is very sketchy. Some estimates made a few years ago, placed the remittance at over Rs.10000 crores. Any estimate could be far from reality in view of the fact that this is one information which the people are hesitant the most to reveal. However, remittances whether foreign or from within the country, has been playing a major role in transforming the whole economy of the state and also in maintaining the standard of living of the people of the State.

2.30 The economy also had its temporary set back with the return migrants on more than one

occasion. Apart from those who finally call it a day and return for settlement, in 1991, and again in 1997, there was large scale return of migrants from Gulf countries causing serious economic set backs to a large section of the population. This has prompted the State Government to initiate certain measures aimed at assisting the workers from the state engaged in overseas job. A separate department has been established by the State Government to look after the interests of these workers and to formulate appropriate schemes for the rehabilitation of the return migrants.

PRICES, COST OF LIVING AND WAGES

Consumer Price Index

Consumer Price Index is an indicator of the cost of living. The annual average Consumer Price Index numbers for agricultural and industrial workers in the State as well as in the fifteen selected centres in the State during the period from 1993 to 1997 are presented in Table 3.1. In absolute term, the indices showed an increasing trend, recording a compound annual growth rate of 11.05 per cent during the period from 1993 to 1997. During 1997, the index rose by 75 points from 836 in 1996 to 911 in 1997, compared to 77 points, from 759 points in 1995 to 836 in 1996. However, the year-wise inflation in 1995 declined

by 0.25 per cent from 12.69 per cent in 1994 to 12.44 per cent in 1995, and further by 2.30 per cent in 1996 from 12.44 per cent in 1995 to 10.14 per cent in 1996, and again by 1.17 per cent in 1997 from 10.14 per cent in 1996 to 8.97 in 1997. The month-wise movement of indices is given in Appendix 3.3. The trend was one of consistent increase every month and the index went up from 878 in January to 940 in December 1997. On analysing the centre-wise indices it was observed that, as in the previous year, during the year under review also, the highest index was recorded at Meppady (946); followed by Kollam (942) and Chalakkudy (928). Punalur continued to be the lowest (868).

Table 3.1

Annual Average Consumer Price Index Numbers in Selected Centres of Kerala 1993-1997*Base 1970=100*

| Centres | Consumer Price Index Numbers | | | | | % of change over previous year | | | |
|-----------------------|------------------------------|------|------|------|------|--------------------------------|-------|-------|-------|
| | 1993 | 1994 | 1995 | 1996 | 1997 | 1994 | 1995 | 1996 | 1997 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 1. Thiruvananthapuram | 596 | 673 | 760 | 838 | 919 | 12.92 | 12.93 | 10.26 | 9.67 |
| 2. Kollam | 615 | 687 | 772 | 860 | 942 | 11.71 | 12.37 | 11.40 | 9.53 |
| 3. Punalur | 586 | 640 | 706 | 781 | 868 | 9.22 | 10.31 | 10.62 | 11.14 |
| 4. Alappuzha | 599 | 676 | 762 | 839 | 916 | 12.86 | 12.72 | 10.10 | 9.18 |
| 5. Kottayam | 599 | 676 | 761 | 839 | 909 | 12.86 | 12.57 | 10.23 | 8.34 |
| 6. Mundakkayam | 599 | 676 | 752 | 824 | 890 | 12.69 | 11.24 | 9.57 | 8.01 |
| 7. Munnar | 590 | 667 | 733 | 797 | 871 | 13.05 | 9.90 | 8.73 | 9.28 |
| 8. Ernakulam | 589 | 658 | 734 | 818 | 892 | 11.72 | 11.55 | 11.44 | 9.05 |
| 9. Chalakkudi | 608 | 687 | 773 | 847 | 928 | 12.99 | 12.52 | 9.57 | 9.56 |
| 10. Thrissur | 587 | 668 | 761 | 835 | 908 | 13.80 | 13.92 | 9.27 | 8.74 |
| 11. Palakkad | 591 | 675 | 769 | 846 | 918 | 14.21 | 13.93 | 10.01 | 8.51 |
| 12. Malappuram | 617 | 696 | 790 | 863 | 927 | 12.80 | 13.51 | 9.24 | 7.42 |
| 13. Kozhikkode | 597 | 668 | 752 | 831 | 902 | 11.89 | 12.57 | 10.51 | 8.54 |
| 14. Mappady | 611 | 695 | 794 | 870 | 946 | 13.75 | 14.24 | 9.57 | 8.74 |
| 15. Kannur | 602 | 680 | 773 | 853 | 923 | 12.96 | 13.68 | 10.35 | 8.21 |
| State Average | 599 | 675 | 759 | 836 | 911 | 12.69 | 12.44 | 10.14 | 8.97 |

Source : Department of Economics and Statistics, Government of Kerala.

Retail prices

3.2 During 1997, retail prices of essential commodities recorded a downward trend in general. When the prices of twenty items of essential commodities were subjected to review, thirteen of them showed downward trend while seven items have

shown increase in prices. This is in contrast to the trend witnessed in 1996, when eighteen items showed upward trend and only two items showed downward trend. Another significant point to note is that prices of black gram, dhall, groundnut oil and refined oil declined to a level lower than that in 1995. Chillies

recorded a marked fall of 27 per cent in its price from Rs. 48.43 per Kg. in 1996 to Rs. 35.31 per kg. in 1997, followed by coriander (26%) from Rs. 49.21 per kg. to Rs. 36.38 and dhall (23%) from Rs. 33.12 per kg. to Rs. 25.32 per kg. The price of coconut oil declined by Rs. 11.1 from Rs. 67.91 per kg. in 1996 to Rs. 56.81 per kg. in 1997, registering a negative growth rate of 16 per cent, whereas that of black gram came down by Rs. 4.28 from Rs. 27.43 per kg. in 1996 to Rs. 23.15 per kg. in 1997 recording a negative growth rate of 15 per cent. Baby food and ground nut oil witnessed marginal fall in their prices

i.e., by 1.3 per cent and 1.9 per cent respectively. Among the commodities which recorded upward trend in their prices, prices of onion shot up to unprecedented level from Rs. 9.29 per kg. in 1996 to Rs. 17.62 per kg. in 1997, an increase of 89 per cent followed by sugar (16%) from Rs. 13.48 per kg. to Rs. 15.71, egg (10.9%) from Rs. 23.15 a dozen to Rs. 25.68. Increases shown by other commodities were at a lower range of 4.4 per cent to 7.7 per cent. The details are given in table 3.2.

3.3 The month-wise data on prices witnessed an erratic trend, barring that of coffee

Table 3.2
Average Retail Prices of Essential Commodities 1993-'97

| Commodities | Unit | Prices at the end of December | | | | | % charge over previous Year | | | |
|-----------------------------|----------|----------------------------------|--------|--------|--------|--------|--------------------------------|-------|--------|--------|
| | | 1993 | 1994 | 1995 | 1996 | 1997 | 1994 | 1995 | 1996 | 1997 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Riu | Kg. | 7.61 | 9.47 | 9.78 | 11.72 | 11.02 | 24.44 | 3.27 | 19.84 | -5.97 |
| Green Gram | " | 15.52 | 18.48 | 21.54 | 22.96 | 24.42 | 19.07 | 16.56 | 6.59 | 6.35 |
| Blackgram (without husk) | " | 13.95 | 28.52 | 27.3 | 27.43 | 23.15 | 107.33 | -5.50 | 0.36 | -15.60 |
| Red gram | " | 14.06 | 14.13 | 15.06 | 18.17 | 17.07 | 0.50 | 6.58 | 20.65 | -6.05 |
| Dhall | " | 20.96 | 20.14 | 33.03 | 33.32 | 25.32 | -3.91 | 64.00 | 0.27 | -23.55 |
| Coconut Oil | " | 37.02 | 38.35 | 44.30 | 67.91 | 56.81 | 3.59 | 15.52 | 53.30 | -16.35 |
| Ground nutoil | " | 39.45 | 43.71 | 45.31 | 45.48 | 44.60 | 10.80 | 3.66 | 0.38 | -1.93 |
| Refined Oil(postman) | " | 58.75 | 59.48 | 64.84 | 65.23 | 62.14 | 1.24 | 9.01 | 0.60 | -4.74 |
| Topioca | " | 2.81 | 3.04 | 3.52 | 4.05 | 4.35 | 8.19 | 15.79 | 15.06 | 7.4 |
| Banana (Green) | " | 7.24 | 8.46 | 8.29 | 12.32 | 11.12 | 16.85 | -2.01 | 48.61 | -9.44 |
| Milk (Cow) | Ltr | 7.82 | 8.79 | 9.75 | 11.00 | 11.85 | 12.40 | 10.92 | 12.82 | 7.72 |
| Egg(hen) | dozen | 13.93 | 14.40 | 14.21 | 23.15 | 25.68 | 3.37 | -1.32 | 62.91 | 10.93 |
| Potato | Kg. | 7.96 | 7.25 | 7.36 | 9.14 | 7.50 | -8.92 | 1.52 | 24.18 | -17.94 |
| Corriander | " | 19.39 | 19.42 | 25.11 | 49.21 | 36.38 | 0.16 | 29.30 | 95.98 | -26.07 |
| Chillies (dry) | " | 24.14 | 46.33 | 64.00 | 48.43 | 35.31 | 91.92 | 38.33 | -24.32 | -27.09 |
| Onion (small) | " | 8.25 | 6.68 | 12.54 | 9.29 | 17.62 | -19.03 | 87.72 | -25.92 | 89.67 |
| Sugar | " | 13.09 | 12.83 | 12.60 | 13.48 | 15.71 | -1.99 | -1.79 | 6.98 | 16.54 |
| Coconut (without husk) | 100 Nos. | 351.79 | 374.17 | 413.57 | 620.00 | 571.92 | 6.36 | 10.53 | 49.91 | -7.75 |
| Firewood (local split) | QH | 84.38 | 102.53 | 128.33 | -- | -- | 21.51 | 25.16 | -- | -- |
| Washing soap | each | 5.30 | 5.59 | 5.82 | 6.35 | 6.63 | 5.47 | 4.12 | 9.11 | 4.41 |
| Electric Bulb (Philips) | " | 9.52 | 9.64 | 9.5 | -- | -- | 1.26 | -1.35 | -- | -- |
| Baby Food (Amul) | Kg | 82.00 | 85.00 | 103.29 | 113.08 | 111.64 | 3.66 | 21.52 | 9.48 | -1.27 |

Source Department of Economics and Statistics, Government of Kerala.

powder. The range of fluctuation was rather lower, except in the case of onion. Price of onion (small) witnessed a skewed distribution with in the range of Rs. 9.00 per kg. to Rs. 17.62 per kg. Price of onion (big) also behaved almost in similar manner skyrocketing with in the range of Rs. 4.89 per kg. to Rs. 14.08 per kg. But this was a phenomenon experienced in all other parts of the country during

1997. Price of coffee powder recorded upward trend every month (steady during April and May) and touched a high of Rs. 61.71 for 1/2 Kg in December. The price of Sugar, which moved upward from Rs. 13.30 a kg. in January to an all time high of Rs. 16.11 a Kg. in August, declined to a level of Rs. 15.41 a Kg. in September, and thereafter, again went up to Rs. 15.71 a Kg. in December. Egg showed

very erratic movement in its prices without being at the same level in any two months, and recorded a low of Rs. 14.31 per dozen in April and an all time high of Rs. 19.51 in June. After recording a sudden spurt from Rs. 11.71 in May to Rs. 20.14 in June, the price of chillies (green) came down significantly to Rs. 15.54 in July, from Rs.13 in August and September and again to Rs.15.7 in December 97. Price of tamarind, after an initial erratic movement, went upward touching a peak of Rs. 28.21 per kg. in November and thereafter came to a low of Rs. 20.15 per kg. in December. The month-end average retail prices of essential commodities during 1997 is given in Appendix 3.2.

Wholesale price of agriculture commodities.

3.4 The Wholesale Price Index of agriculture commodities in the State during 1997 (up to June) increased markedly by 269 points from 1876 points in 1996 (up to June) to 2145 points in 1997, registering an increase of 14.3 per cent which was higher by 1.3 per cent compared to the level a year ago, when the index went up by 13.0 per cent

from 1702 points in 1995 to 1922.5 points in 1996. Increases recorded by molasses (44%), oil seeds (35%), condiments and spices (20%) were the factors which were chiefly on account of a higher rate of increase of Whole Sale Price index in 1997. The index of rice remained stagnant at 1161.9 since 1995. Index of condiments and spices, oilseeds and molasses went up steadily. Fruits and vegetables under food crops and plantation crops under non-food crops recorded negative growth rate of 1.6 per cent and 1.8 per cent respectively during 1997. The index of non -food crops which recorded a high growth in 1995 went up further and reached a level of 26.9 per cent increase in 1997, that of food crops recording a high growth rate in 1995, but exhibited a down trend from 16.3 percent in that year to 5.3 percent in 1997. During the period from 1993 to 1997 (up to June) food crops grew by compound growth rate of 8 percent, non-food crops by 9 percent and the all crops by little over 8 percent. Molasses and oil seeds exhibited a skewed nature of distribution in their indices from 1993- to 1997. The wholesale price index of agricultural commodities from 1993 to 1997 is presented in Table 3.3.

Table-3.3
Wholesale Price Index of Agricultural Commodities 1993-1997

| Crops | Weight | Wholesale Price Index | | | | | | % Charge over previous year | | | |
|--------------------------|--------|-----------------------|--------|---------|--------|--------|--------|-----------------------------|--------|-------|-------|
| | | 1993 | 1994 | 1995 | 1996 | 1996* | 1997* | 1994 | 1995 | 1996 | 1997* |
| A. Food Crops | 63.5 | 1310.3 | 1384.0 | 1608.9 | 1731.1 | 1715.1 | 1805.8 | 5.63 | 16.25 | 7.59 | 5.29 |
| Rice | 40.4 | 837.1 | 957.4 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 14.37 | 21.36 | 0 | 0 |
| Condiments & Spices | 10.4 | 1894.5 | 1778.9 | 1960.0 | 2305.8 | 2315.3 | 2783.5 | -6.10 | 10.18 | 17.64 | 20.22 |
| Fruits & Vegetables | 10.7 | 2434.2 | 2533.7 | 2978.1 | 3287.7 | 3235.4 | 3185.1 | 4.09 | 17.54 | 10.40 | -1.55 |
| Molasses | 2.0 | 1802.7 | 1781.1 | 1477.1 | 1896.7 | 1627.5 | 2338.2 | -1.20 | -17.06 | 28.41 | 43.67 |
| B. Non Food Crops | 36.5 | 1966.2 | 1678.9 | 1864.3 | 2255.6 | 2155.0 | 2733.8 | -14.61 | 11.04 | 20.99 | 26.86 |
| Oil Seeds | 25.5 | 2367.8 | 1914.9 | 2028.6 | 2553.4 | 2395.5 | 3237.4 | -19.13 | 5.94 | 25.87 | 35.15 |
| Plantation Crops | 11.00 | 1037.9 | 1133.7 | 1484.5 | 1567.5 | 1595.0 | 1569.8 | 9.23 | 30.94 | 5.59 | -1.83 |
| C. All Crops | 100.00 | 1549.7 | 1491.7 | 1702.00 | 1922.5 | 1875.7 | 2144.5 | -3.7 | 14.10 | 12.96 | 14.33 |

Source : Department of Economics and Statistics, Government of Kerala.

* Average up to June 1997

3.5 On analysing the month-wise movement of whole sales price indices from January to June 1997 (data are available only upto that period) it could be seen that, but for rice, condiments & spices, all the commodities recorded erratic trend. While the index of rice remained unchanged at 1161.9, that of condiments & spices maintained upward trend through out the period. Erratic trend in index was more pronounced in the case of oilseeds. After an initial increase from 3571 in January to 3693 in February the index steeply declined to a level of 3300 in March and further to 2980 in April. It went up to 2994 in May and again declined to a level of 2884 in June, the lowest during the period. The index of molasses ranged between

2158 (March) and 2471 (May) and that of fruits and vegetables ranged between 2908 (June) and 3408 (February). Indices of food crops recorded steady growth except for March. In contrast, a downward trend was recorded in the case of indices of non-food crops every month, after a spurt from 2955 in January to 3036 in February. Indices of all crops witnessed rather a skewed distribution touching at 2080 in April, the lowest and at 2244 in February, the highest. The index of plantation crops declined initially to touch a low of 1519 in February but went up later to touch an all time high of 1626 in May. The month-wise indices of agricultural commodities from January to June 1997 are furnished in Appendix 3.1.

Farm Commodity Prices

3.6 Farm prices of important agricultural commodities in Kerala during 1996-97 witnessed an upward trend in respect of coconut, pepper, banana, tapioca and paddy, stagnation in the case of cashewnut and a negative trend for ginger (see Table 3.4).

The biggest increase in the price at 45 percent was recorded in the case of coconut while increases in respect of pepper was 20 per cent and banana 24 per cent. Area under tapioca has been steadily declining over the years. But the price of tapioca has been consistently on the increase, reaching a level of almost doubled during the period from 1991-92 to 1996-97,

Table-3.4
Average Farm Prices of Principal Crops

| | | | | | | | | Rupees |
|-----------|----------|---------|---------|---------|---------|---------|---------|--------------------------------------------------|
| Commodity | Unit | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | Percentage increase during 1996-97 over 1995-96. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Paddy | Qtl | 374.76 | 420.80 | 414.53 | 494.86 | 547.00 | 607.00 | 11 |
| Tapioca | " | 157.68 | 187.24 | 197.60 | 217.13 | 253.0 | 300.00 | 19 |
| Coconut | 100 Nos. | 393.25 | 420.14 | 325.55 | 307.83 | 331.00 | 480.00 | 45 |
| Pepper | Qtl | 2950.05 | 2616.59 | 3898.02 | 6687.43 | 7320.00 | 8780.00 | 20 |
| Ginger | " | 2177.95 | 2490.50 | 2858.06 | 5250.29 | 5871.00 | 4214.00 | -28 |
| Cashewnut | " | 2037.74 | 2000.41 | 2134.34 | 2353.36 | 2700.00 | 2730.00 | 1 |
| Arecanut | 100 Nos. | 31.48 | 33.01 | 33.65 | 36.73 | 43.00 | 43.00 | 0 |
| Banana | 100 Nos. | 80.77 | 93.89 | 108.56 | 125.70 | 130.00 | 161.00 | 24 |

Source : Department of Economics & Statistics

Rs. 300 per quintal during 1996-97. Pepper, the most important export commodity recorded a phenomenal increase in Rs.8780/per quintal after 1993-94, largely benefitting from the boom in international prices. Although the overall price situation in the farm front during 1996-97 in general were reasonably remunerable the recent indications, particularly from the later half 1997, are that the prices of some of the commodities like coconut are showing signs of deterioration. (Prices of plantation crops are dealt with in the chapter "Agriculture and Allied Sectors". Refer para 4.27 & 4.28)

Parity Index

3.7. Parity Index is a relative measure of prices received by farmers and prices paid by farmers. When the prices received by farmers and prices paid by farmers are same the parity index becomes 100, which means, index would be favourable to the farming community when it exceeds 100. During the period from January to August 1997 (data are available only upto that period) the parity index rose by 7 points from 77 between January-August 1996 to 84 in January-August 1997, showing an increase of 9 percent. The index, which was 100 in 1987, more or less steadily declined and touched a low of 77 points in 1994 and 1995 moved upto a level of 84 points during the January-August 1997. While the prices received by farmers increased by 24 per cent, the prices paid by farmers increased only 14 per cent witnessing a favourable situation to the farming

community compared to the previous year. On comparing the compound annual growth rates of prices received by farmers and prices paid by farmers during the period from 1986 to 1996, it is observed that when the prices paid by farmers picked up by 10 percent, the prices received by farmers picked up by 8 per cent only. This implies an unfavourable prices situation to the farming community in the state during the past ten years. Farm cultivation costs were also on increase year after year recording a compound growth rate of 12% during the decade 1986 to 1996. The parity Index numbers from 1986 to 1997 (upto August) are presented in Table 3.5

Public Distribution System

3.8 The public distribution system in Kerala has the most extensive coverage. Indeed, its coverage is nearly universal. All eligible households are provided with ration cards. Peoples can purchase permitted quantity of rice, wheat, sugar, kerosene etc from the authorised retail dealer at subsidised price. On an average, in Kerala, there is one retail outlet for every 400 households covering a population of around 2000. By January 1998, total population covered by rationing is Rs. 301.85 lakhs. Out of them 251 lakhs are adults aged 12 years and above and 51 lakhs are non-adults aged 2 and below 12 years.

3.9 There were 14236 retail ration shops in Kerala in 1997 as against 14224 in 1996. This shows that 12 new retail ration shops were started during 1997.

Table-3.5
Index Number of Prices received and prices paid by Farmers

(Base 1952-53=100)

| Year | Prices received by Farmers | Farm Cultivation cost | Domestic Expenditure | Prices paid by farmers | Parity as col. 2 to 5 |
|-------|----------------------------|-----------------------|----------------------|------------------------|-----------------------|
| 1986 | 921 | 1299 | 745 | 984 | 93 |
| 1987 | 1063 | 1413 | 804 | 1066 | 100 |
| 1988 | 1044 | 1520 | 860 | 1143 | 91 |
| 1989 | 1017 | 1604 | 897 | 1200 | 85 |
| 1990 | 1072 | 1728 | 945 | 1277 | 84 |
| 1991 | 1315 | 1910 | 1078 | 1435 | 92 |
| 1992 | 1486 | 2255 | 1202 | 1646 | 90 |
| 1993 | 1496 | 2579 | 1303 | 1834 | 82 |
| 1994 | 1582 | 2891 | 1464 | 2057 | 77 |
| 1995 | 1802 | 3312 | 1641 | 2331 | 77 |
| 1996 | 2079 | 3928 | 1810 | 2666 | 78 |
| 1996* | 1994 | 3799 | 1781 | 2601 | 77 |
| 1997* | 2481 | 4486 | 1952 | 2959 | 84 |

Source : Directorate of Economics and Statistics, Government of Kerala.

* Average upto August 1997.

Out of these total retail shops 1069 are co-operatives. By January 1998, the number of retail ration shops had increased to 14258. By the end of January 1998, the total number of ration cards was 59.515 lakhs. There were also 15600 establishment permits and

7017 temporary ration cards. 339 wholesale shops had the responsibility for the distribution of rice and other essential items to retail shops by January 1998. Table 3.6 gives the details of public distribution system in Kerala.

Table 3.6
Public Distribution System in Kerala

| Sl.No | Items | units | 1990 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 (Jan) |
|-------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|------------|
| 1. | Ration Cards Lakh Nos. | Nos. | 50.52 | 54.75 | 55.71 | 56.54 | 57.75 | -- | 59.515 |
| 2. | Ration permits to Institutions | Nos. | 90.6 | 11229 | 11950 | 13173 | 13553 | -- | -- |
| 3. | No. of wholesale shops | " | 296 | 298 | 308 | 314 | 321 | 321 | 339 |
| 4. | Retail shops | " | 13007 | 13325 | 13875 | 14179 | 14224 | 14236 | 14258 |
| | (i) Co-operatives | | 1193 | 1134 | 1095 | 1080 | 1070 | 1069 | 1053 |
| | (ii) Others | | 11814 | 12191 | 12780 | 13099 | 13154 | 13167 | 13205 |

Source : Dept. of Civil Supplies

3.10 Government of India has launched a scheme for the supply of rice at concessional rates to families below poverty line to the extent of 25 percent of the population. In Kerala State government has decided has to extend the benefit of the scheme to 42 percent families covered by the anti-poverty programmes. Retail price of commodities issued through ration shops and for people below poverty line is as shown in Table 3.7 below.

Table 3.7
Retail price of commodities issued through ration shops (January 1998) (Rs./ Kg.)

| Items | Price |
|-------------------------------------|-------|
| 1. 'A' grade Rice | 7.50 |
| 2. 'A' grade Rice (subsidy) | 6.50 |
| 3. Common Rice (below poverty line) | 3.90 |
| 4. Wheat | 5.00 |
| 5. Sugar | 11.50 |

Allotment of Rice and Wheat

3.11 In 1996, rice allotted to Kerala was 18.26 lakh tonnes. Rice allotted in 1997 is 17.49 lakh tonnes. Similarly 5.9 lakh tonnes of wheat was allotted in 1996 and in 1997 allotment is 3.67 lakh tonnes. Sugar allotted was 1.48 lakh tonnes in 1996 and 1.54 tonnes in 1997. Kerosene oil allotted to Kerala was 3.8 lakh kilo litres in 1996 and 3.72 lakh kilo litres in 1997. Table 3.8 shows allotment of rice, wheat, sugar and kerosene oil to Kerala during 1996 and 1997.

Table 3.8

Allotment of rice, wheat, sugar and Kerosene oil

| Sl. No. | Items | Years | |
|---------|-----------------------------------|-------------------|-------------------|
| | | 1996 (Jan-Dec) | 1997 (Jan-Dec) |
| 1. | Rice (Lakh tonnes) | 18.26 | 17.49 |
| 2. | Wheat " | 5.90 | 3.67 |
| 3. | Sugar " | 1.48 | 1.54 |
| 4. | Kerosene Oil (lakh Kilolitres) | 3.80 | 3.72 |

Source : Department of Civil Supplies.

Distribution of rice and wheat

3.12 During 1996, the off-take of rice was 14.01 lakh tonnes through PDS. In 1997, 16.08 lakh tonnes rice has been distributed, as against 11.3 lakh tonnes in 1995 and 11.5 lakh tonnes in 1994.

3.13 Quantity of wheat distributed through PDS in 1996 was 4.9 lakh tonnes. In 1997 3.53 lakh tonnes has been distributed, against 4.23 lakh tonnes in 1995 and 2.90 lakh tonnes in 1994. Table 3.9 below shows the quantity of rice and wheat distributed through PDS in Kerala.

Table 3.9

Quantity of Rice and Wheat distributed through PDS in Kerala

| Year | (Lakh tonnes) | |
|------|---------------|-------|
| | Rice | Wheat |
| 1990 | 14.60 | 2.01 |
| 1991 | 17.47 | 3.34 |
| 1992 | 18.01 | 2.05 |
| 1993 | 16.43 | 2.19 |
| 1994 | 11.50 | 2.90 |
| 1995 | 11.30 | 4.23 |
| 1996 | 14.01 | 4.92 |
| 1997 | 16.08 | 3.53 |

3.14 To supplement the PDS system, the Civil Supplies Corporation intervene the market through procurement and distribution of essential

commodities which helps to control the market price. The Corporation has an authorised share capital of Rs.15 crore and the paid up capital is Rs.8.58 crore. Until 31.3.97. State Government has advanced an amount of Rs.132.6 crore as loan and Rs.13 crore as grant. The accumulated loss of the Corporation is Rs.143 crore until 31.3.97. The accounts of the Corporation have been audited only upto 1990-91. The credit facility of the Corporation is Rs.15 crore from commercial banks for non-food operation and Rs.5 crore for food operation for PDS. Annual interest burden of the Corporation to Government is around Rs.23 crore.

3.15 Corporation organises its distribution activities through 61 Taluk Depots. Corporation has 636 retail outlets called Maveli stores, 11 Super Markets, 2 Mini-Supermarkets, and 21 mobile Maveli store vans. In addition to it, Corporation has 9 petrol bunks, 4 LPG retail outlets, and a Kerosene Wholesale depot. Festival markets during Onam, X-mas and Ramzan is an effective mechanism of market intervention to reduce exploitation to a significant extent. Total turn over of the Corporation was Rs.322.50 crores during 1996-97 against Rs.227.50 crores during 1995-96, an increase of 42 percent in 1996-97. Although the turn over increased, the activities of the Corporation during 1996-97 ended in a loss of Rs.37 crores. Major item wise turn over of the Corporation is given in Table 3.10

Table 3.10

Kerala State Civil Supplies Corporation
Profile of activities

| Sl. No. | Items | Turn over value (Rs. crore) | | | |
|---------|--------------------|-----------------------------|--------|---------|--------|
| | | 1995-96 | % | 1996-97 | % |
| 1. | Sugar | 136.25 | 60 | 151.74 | 47.1 |
| | (i) Levy | -- | -- | 146.32 | 45.4 |
| | (ii) Free sale | -- | -- | 5.42 | 1.7 |
| 2. | Rice | 5.41 | 2.4 | 32.11 | 9.9 |
| | (i) Free Sale | -- | -- | 17.18 | 5.3 |
| | (ii) PDS | -- | -- | 14.93 | 4.6 |
| 3. | Wheat | -- | -- | 28.33 | 8.8 |
| | (i) Open market | -- | -- | 34.56 | 7.6 |
| | (ii) PDS | -- | -- | 3.77 | 1.2 |
| 4. | Petroleum products | 18.68 | 8.2 | 21.96 | 6.8 |
| 5. | Palmolien Oil | 2.50 | 1.0 | 3.34 | 1.0 |
| 6. | Others | 64.66 | 28.4 | 85.02 | 26.4 |
| Total | | 227.50 | 100.00 | 322.50 | 100.00 |

3.16 Corporation supplies rice, green gram and palmolein oil to schools under noon meal

programme. Corporation lifted 1.6 lakh tonnes levy sugar allotted to state government from mills. Corporation also purchased sugar valued Rs.5.4 crore from open market and distributed through its outlets. The Corporation intervened the market with government support to control the price of essential items like pulses and spices. The sales of pulses and spices through Maveli stores since August 1996 has almost doubled in quantity. Corporation also started wholesaling of rice and wheat under PDS and took over 9 depots from F.C.I. in 1997. During 1997 Corporation started two fair price medical shops at Thiruvananthapuram and Ernakulam. Corporation also successfully undertakes market intervention in branded tea and curry powder. In 1996-97 Corporation sold 1669 mt. of branded tea (Sabari tea) against 1183mt in 1995-96. Non-maveli items were also sold through maveli stores at competitive rates. For instance, out of the total sales of 62.44 crore through maveli stores during 1996-97, Rs.8.55 crores (14%) were non-maveli items.

Wages

3.17 Among skilled workers, wages of carpenters increased only by 19.9 per cent as against the increase 22.6 per cent in the previous year and that of mason increased only by 20.6 percent as against

the increase of 21.7 percent during the previous year, recording a marginal fall in the rate of increase of wages of skilled workers in agriculture sector. Among paddy workers in agriculture sector, the wages of male workers increased only 19.5 percent as against the increase of 21.5 percent in the previous year and that of female workers increased by 18.3 percent as against the increase of 22.1 percent during the previous year showing a marginal fall in the rate of increase of wages of paddy workers. In general, increase in wages in agriculture sector witnessed a low growth rate during the period under review compared to that in the previous year. In construction sector, while wage of carpenter in rural as well as in urban area increased by 19 percent that of mason in rural area increased by 21 percent and urban area by 19 percent.

3.18 The Wages of unskilled workers in construction sector also behaved more or less in the same manner as that of skilled Workers. When the wages of men in rural area increased by 15 percent that of women increased by 18 percent and when the wages of men in urban area increased by 14 percent that of women increased by 15 percent showing favour to women in both cases. The average daily wage rates in agriculture and construction sectors are presented in Table 3.11 to 3.14

Table-3.11
Average Daily Wage Rates of Skilled Workers in Agricultural Sector

| Year | Average daily wage rates | | % change over previous year | |
|---------|--------------------------|--------|-----------------------------|-------|
| | Carpenter | Mason | Carpenter | Mason |
| 1980-81 | 19.82 | 19.78 | - | - |
| 1981-82 | 22.42 | 22.50 | 13.12 | 13.75 |
| 1982-83 | 23.40 | 23.52 | 4.37 | 4.53 |
| 1983-84 | 26.17 | 26.22 | 11.84 | 11.48 |
| 1984-85 | 38.74 | 38.69 | 48.03 | 47.56 |
| 1985-86 | 42.84 | 42.80 | 10.58 | 20.62 |
| 1986-87 | 45.93 | 45.53 | 7.21 | 7.31 |
| 1987-88 | 47.50 | 47.21 | 3.42 | 2.79 |
| 1988-89 | 49.80 | 49.55 | 4.84 | 4.96 |
| 1989-90 | 51.82 | 51.45 | 4.06 | 3.83 |
| 1991-91 | 54.47 | 53.98 | 5.11 | 4.92 |
| 1991-92 | 59.00 | 58.55 | 8.32 | 8.47 |
| 1992-93 | 68.28 | 67.63 | 15.73 | 15.51 |
| 1993-94 | 76.49 | 76.57 | 12.02 | 13.22 |
| 1994-95 | 87.44 | 87.04 | 14.32 | 13.62 |
| 1995-96 | 107.20 | 105.96 | 22.60 | 21.74 |
| 1996-97 | 128.54 | 127.81 | 19.91 | 20.62 |

Source : Department of Economics and Statistics, Government of Kerala.

Table-3.12
Average Daily Wage Rates of Unskilled Workers in the Agricultural Sector

| Year | Average Daily wage rates of paddy field workers | | % of change over previous year | |
|---------|-------------------------------------------------|--------|--------------------------------|--------|
| | Male | Female | Male | Female |
| | | | | |
| 1980-81 | 11.13 | 7.91 | - | - |
| 1981-82 | 12.74 | 8.83 | 14.47 | 11.63 |
| 1982-83 | 13.29 | 9.55 | 4.32 | 8.15 |
| 1983-84 | 15.86 | 11.02 | 19.34 | 15.93 |
| 1984-85 | 23.60 | 11.89 | 48.80 | 7.90 |
| 1985-86 | 26.08 | 15.10 | 10.51 | 27.00 |
| 1986-87 | 28.36 | 16.39 | 8.74 | 8.54 |
| 1987-88 | 30.36 | 16.39 | 7.05 | 7.87 |
| 1988-89 | 31.95 | 18.59 | 5.24 | 5.15 |
| 1989-90 | 33.31 | 19.63 | 4.26 | 5.59 |
| 1990-91 | 35.77 | 21.11 | 7.39 | 7.54 |
| 1991-92 | 41.38 | 26.12 | 15.16 | 23.73 |
| 1992-93 | 48.40 | 32.31 | 16.97 | 23.70 |
| 1993-94 | 54.26 | 35.49 | 12.11 | 9.84 |
| 1994-95 | 63.53 | 41.92 | 17.08 | 18.12 |
| 1995-96 | 77.17 | 51.17 | 21.47 | 22.10 |
| 1996-97 | 92.18 | 60.52 | 19.45 | 18.27 |

Source : Department of Economics and Statistics, Government of Kerala

Table 3.13
Average Daily Wage Rates of Skilled Workers in the Construction Sector

| Year | Carpenter | | Mason | |
|---------|-----------|--------|--------|--------|
| | Rural | Urban | Rural | Urban |
| | | | | |
| 1980-81 | 18.66 | 19.33 | 18.75 | 19.36 |
| 1981-82 | 22.52 | 22.87 | 22.66 | 23.01 |
| 1982-83 | 27.99 | 30.68 | 28.15 | 30.80 |
| 1983-84 | 33.43 | 35.00 | 33.29 | 35.12 |
| 1984-85 | 36.71 | 37.97 | 36.65 | 38.03 |
| 1985-86 | 40.91 | 40.67 | 41.10 | 42.01 |
| 1986-87 | 43.90 | 45.39 | 44.24 | 45.91 |
| 1987-88 | 49.30 | 50.08 | 49.32 | 50.04 |
| 1988-89 | 51.08 | 51.92 | 51.17 | 52.00 |
| 1989-90 | 53.51 | 53.98 | 53.37 | 54.29 |
| 1990-91 | 56.55 | 56.67 | 56.18 | 55.93 |
| 1991-92 | 59.79 | 61.25 | 59.38 | 60.77 |
| 1992-93 | 68.89 | 70.92 | 68.07 | 70.23 |
| 1993-94 | 73.57 | 76.50 | 72.75 | 75.98 |
| 1994-95 | 87.03 | 91.47 | 86.49 | 90.55 |
| 1995-96 | 109.45 | 113.85 | 107.59 | 112.83 |
| 1996-96 | 130.09 | 135.09 | 129.70 | 134.00 |

Source : Department of Economics and Statistics, Government of Kerala.

Table-3.14
Average Daily Wage Rates of Unskilled Workers in the Construction Sector.

| Year | Men | | Women | |
|---------|-------|-------|-------|-------|
| | Rural | Urban | Rural | Urban |
| 1980-89 | 12.30 | 13.07 | 9.62 | 10.22 |
| 1981-82 | 15.22 | 15.94 | 11.40 | 12.22 |
| 1982-83 | 17.85 | 19.09 | 13.53 | 14.44 |
| 1983-84 | 20.29 | 21.18 | 14.81 | 16.10 |
| 1984-85 | 21.90 | 22.80 | 16.37 | 17.38 |
| 1985-86 | 25.31 | 25.70 | 19.08 | 19.42 |
| 1986-87 | 27.66 | 28.42 | 21.05 | 21.93 |
| 1987-88 | 31.31 | 32.23 | 23.26 | 25.34 |
| 1988-89 | 32.92 | 33.55 | 25.32 | 26.79 |
| 1989-90 | 34.46 | 35.23 | 27.45 | 28.69 |
| 1990-91 | 37.34 | 36.78 | 29.23 | 30.84 |
| 1991-92 | 39.71 | 41.63 | 31.64 | 34.32 |
| 1992-93 | 46.34 | 48.66 | 37.23 | 39.32 |
| 1993-94 | 50.36 | 52.85 | 40.89 | 42.80 |
| 1994-95 | 60.08 | 63.63 | 49.94 | 52.00 |
| 1995-96 | 76.59 | 79.15 | 62.80 | 65.34 |
| 1996-97 | 88.19 | 90.44 | 73.80 | 75.19 |

Source : Department of Economics and Statistics, Government of Kerala.

AGRICULTURE AND IRRIGATION

AGRICULTURE

The emerging trends in the agricultural sector during the Eighth Five Year Plan could be summarised as shown below.

- Agricultural income increased at the average rate of 4.9 percent .
- The growth in agricultural income has been contributed largely by improvement in the productivity rather than expansion in area.
- The positive trend in agricultural growth was not all pervasive but was mainly confined to few selected commodities in particular rubber, coconut and milk.
- The relative share of Agriculture in the State income has reached 31 percent as against 33 percent during the Seventh plan period.
- The dependency ratio of the rural population on farming and allied activities has increased.
- The size of agricultural holdings underwent further marginalisation during the plan period.
- The shift in area from subsistence annual/seasonal food crops to perennial crops has been continuing practically through out the Eighth Five Year Plan.
- The prices of important agricultural commodities grown in Kerala continued to be influenced by market forces outside Kerala both national and international.

Agricultural Income

4.2 The ten year period from the mid seventies is considered as a period when the Kerala agricultural front was in stagnation. The Nineties

in general showed positive signs of recovery. Relevant data is given in table 4.1

4.3 Although the Eighth Plan presented an encouraging picture in agricultural growth, it was largely contributed by two principal crops namely coconut and rubber. While in case of coconut the additional production secured was on account of new areas that started yielding rather than improvement in productivity, in the case of rubber both improvement in productivity and the yield from the new plantations contributed to the growth. In the case of all other crops there was no evidence of improvement in productivity.

Rainfall

4.4 Rainfall during 1997 both in terms of its quantum and distribution has been fairly good with a state average of 3206 mm. It is about 100 mm more than the normal rainfall of 3107mm. The pattern of distribution was also satisfactory, particularly the North East Monsoon exceeding the normal rainfall by 31 percent. In spatial distribution also, the rainfall was by and large satisfactory with about ten districts crossing the normal pattern. Even in the case of the remaining districts namely Thiruvananthapuram, Pathanamthitta, Thrissur and Wayanad, deviation from the normal was only marginal. Relevant data is furnished in table 4.2 and appendices 4.1, 4.2 & 4.3. (See fig. 4.1)

Land use

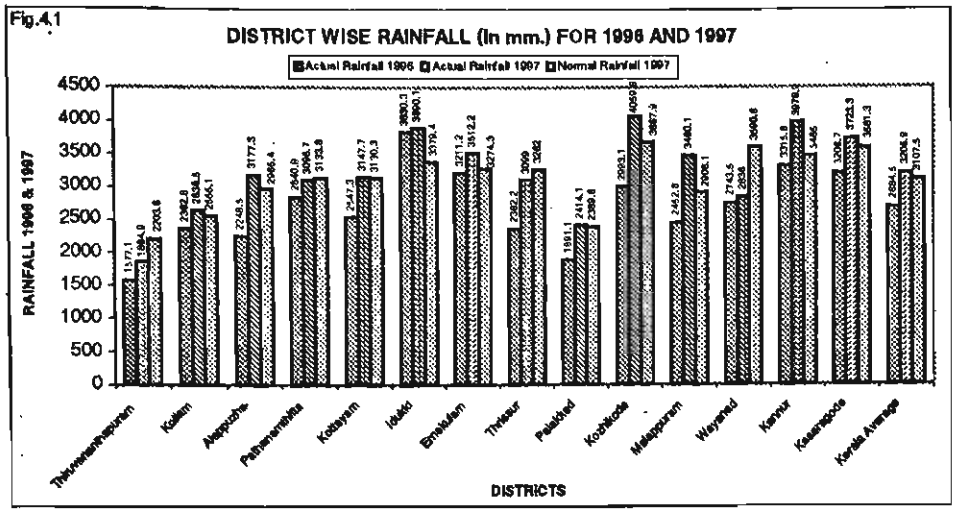
4.5 Net area under cultivation has further peaked to a new high of 58.29 per cent. An additional area of 25352 ha was brought under cultivation during 1995-96 over the previous year. Gross area

Table 4.1

Growth of Agricultural Income in Kerala

| Sl. No. | Period | Average Agricultural income in 1980-81 prices (Rs. in crores) | Average rate of change over previous period | Percentage contribution to state income |
|---------|--------------------------|---------------------------------------------------------------|---------------------------------------------|-----------------------------------------|
| (1) | (2) | (3) | (4) | (5) |
| 1. | Sixth Plan (1980-1985) | 1278.11 | 0.73 | 33.79 |
| 2. | Seventh Plan (1985-1990) | 1434.20 | 3.45 | 33.12 |
| 3. | Eighth Plan (1992-97) | 2048.87 | 4.95 | 30.86 |

Source : Directorate of Economics and Statistics



increased by 18731 ha. However, more than one lakh ha of land having potential for agricultural production still remains uncultivated. This includes cultivable

waste (74382 ha) and fallows other than current fallows(29143 ha). They together account for about four per cent of the geographical area. (See fig. 4.2)

Table 4.2
Percentage Departure of Rainfall from Normal (1990 to 1997)

| Sl. No. | Year | Annual | South West Monsoon | North East Monsoon |
|---------|------|--------|--------------------|--------------------|
| 1 | 2 | 3 | 4 | 5 |
| 1. | 1990 | -28 | -25 | -4 |
| 2. | 1991 | -39 | 18 | -21 |
| 3. | 1992 | -37 | 15 | 35 |
| 4. | 1993 | -08 | -12 | 32 |
| 5. | 1994 | 11 | 15 | 13 |
| 6. | 1995 | -06 | -6 | -22 |
| 7. | 1996 | -13 | -8 | 2 |
| 8. | 1997 | 3 | 6 | 31 |

Source : Meteorological Centre, TVM

Locating such potential lands and developing appropriate production programmes for bringing them under cultivation should assume the topmost priority under the local area programmes formulated by the Panchayats. The cropping intensity also remain more or less constant around 135 per cent. One of the reasons

for the cropping intensity remaining stagnant in recent years is due to the utilization of the traditional wet lands where more than one crop of paddy along with cash crops like pulses were raised earlier, are getting diverted increasingly for perennial crops where the scope for additional cropping is limited.

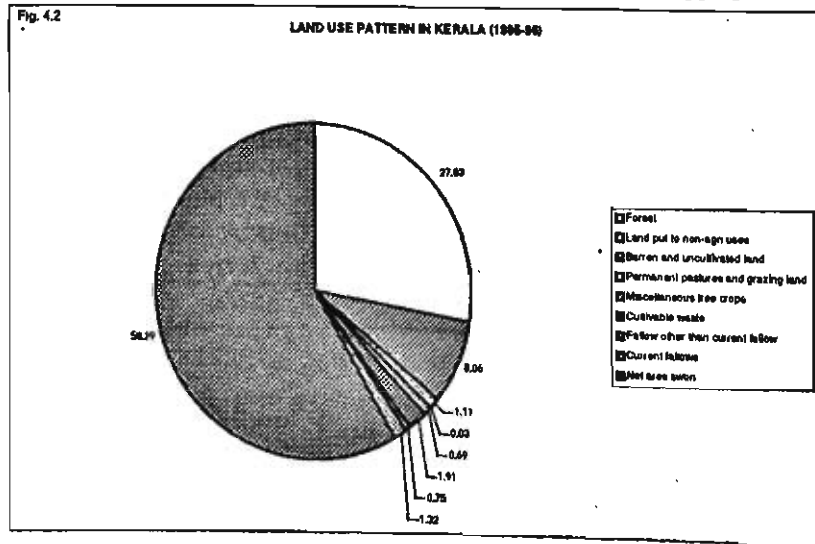


Table 4.3

Eighth Five Year Plan-Land Use Pattern in Kerala

| Sl. No. | Classification of Land | 1991-92 | | 1994-95 | | 1995-96 | | Change in area between 1991-92 & 95-96 | | Change in area between 1994-95 & 95-96 | |
|---------|-------------------------------------------------------------------|---------|---------|---------|---------|---------|--------|----------------------------------------|--------|----------------------------------------|--|
| | | Actual | Actual | % | Actual | % | Actual | % | Actual | % | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 1. | Total Geographical area | 3885497 | 3885497 | 100.00 | 3885497 | 100.00 | -- | -- | -- | -- | |
| 2. | Forest | 1081509 | 1081509 | 27.83 | 1081509 | 27.83 | -- | -- | -- | -- | |
| 3. | Land put to non agricultural uses | 301371 | 322835 | 8.31 | 313131 | 8.06 | +11760 | +3.90 | -9704 | -3.01 | |
| 4. | Barren and Uncultivated land | 55136 | 48434 | 1.25 | 43154 | 1.11 | -11982 | -21.73 | -5280 | -10.90 | |
| 5. | Permanent Pastures and Grazing land | 1779 | 1455 | 0.04 | 1170 | 0.03 | -609 | -34.23 | -285 | -19.59 | |
| 6. | Land under miscellaneous tree crops not included in net area sown | 34294 | 32385 | 0.83 | 26852 | 0.69 | -7442 | -21.71 | -5533 | -17.00 | |
| 7. | Cultivable waste | 92792 | 82441 | 2.12 | 74382 | 1.91 | -18410 | -19.84 | -8059 | -9.78 | |
| 8. | Fallow other than current fallow | 26728 | 29147 | 0.75 | 29143 | 0.75 | +2415 | +9.04 | -4 | -0.01 | |
| 9. | Current Fallow | 43921 | 47801 | 1.23 | 51314 | 1.32 | +7393 | +16.83 | +3513 | +7.35 | |
| 10. | Net area sown | 2247967 | 2239490 | 57.64 | 2264842 | 58.29 | +16875 | +0.75 | +25362 | +1.13 | |
| 11. | Area sown more than once | 773149 | 808915 | 20.82 | 802294 | 20.65 | +29145 | +3.77 | -6621 | +0.82 | |
| 12. | Total Cropped area | 3021116 | 3048405 | 78.46 | 3067136 | 78.94 | +46020 | +1.52 | +18731 | +0.61 | |
| 13. | Cropping intensities | 134.39 | 136.12 | -- | 135.42 | -- | -- | +0.77 | -- | -0.51 | |

Source : Directorate of Economics & Statistics

Trend in Area, Production and Productivity of Crops

4.6 Index of area, production and productivity of crops during the Eighth Five Year Plan are given in appendix 4.4. Table 4.4 presents corresponding figures for 1995-96 and 1996-97. The crop estimates for Eighth Five Year Plan including 1996-97 are very much in agreement with the secular trend of the shift in area from annual food grains to perennial cash crops. Replacement of subsistence crops like rice and pulses by more remunerative cash crops continues. The only change observed during 1996-97 against the trend in the earlier years is that when tapioca, which is an annual crop, which witnessed considerable loss in area earlier reversed the trend and showed significant improvement in area coverage during 1996-97. Crops which have recorded substantial loss in area during 1996-97 include rice (40324 ha), pepper (18997 ha), cashew (2787 ha), pulses (783 ha), cardamom (1205 ha), banana (2787 ha) and sesamum (994 ha). The crops which consolidated their coverage include coconut (91089 ha), tapioca (28434 ha), rubber (964 ha), ginger (1001 ha), arecanut (1900 ha), groundnut (1318 ha) and cotton (1628 ha). Among the crops coconut recorded the highest increase in area during 1996-97 and crossed the 10 lakh ha mark.

4.7 In respect of productivity although major crops such as coconut (90 nuts/ha), coffee (115 kg/ha) and rubber (87 kg/ha) have recorded improvements, the increase is only marginal except in the case of coffee and rubber. Commodities which

recorded considerable negative trends in growth during the year include pepper (46 kg/ha), ginger (184 kg/ha), turmeric (170 kg/ha) cardamom (12 Kg/ha) arecanut (17579 nuts/ha), tapioca (3785 kg/ha) and sesamum (67 kg/ha)

4.8 On the whole the production performance during the Eighth Five Year Plan was impressive only in the case of few crops like coconut, coffee, rubber, pepper, ginger, turmeric, cardamom, banana and plantain. In the case of other crops the production levels slid back below the base level.

Crop wise Analysis

Rice

4.9 With just 1.1 per cent of the country's geographical area, Kerala has to support about 3.4 per cent of the country's population and 1.75 per cent of cattle population. The high pressure of population combined with a cropping system which is traditionally oriented towards perennial cash crops in view of their agronomical suitability, have resulted in the state becoming deficit in food situation, making her dependent on neighbouring states for meeting the requirement for both human and cattle populations. The gap between demand and supply of foodgrains which was around 50 per cent till the mid seventies started widening there after consequent to the large scale shift in paddy lands for cultivation of other more remunerative crops like coconut. The state had gross cropped area of 8.75 lakh ha under paddy cultivation

Table 4.4

Area, Production & Productivity of Principal Crops

| Sl. No. | Crop | Area (ha) | | | Production (tonnes) | | | Productivity (kg/ha) | | |
|---------|--------------------------|----------------------|---------|----------|----------------------|---------|----------|----------------------|---------|---------|
| | | 1991-92 Base year | 1995-96 | 1996-97* | 1991-92 Base year | 1995-96 | 1996-97* | 1991-92 Base year | 1995-96 | 1996-97 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Rice | 541327 | 471150 | 430826 | 1060350 | 953026 | 871361 | 1959 | 2023 | 2023 |
| 2. | Jowar | 5152 | 5454 | 4260 | 2623 | 2776 | 2279 | 509 | 509 | 535 |
| 3. | Ragi | 1635 | 2025 | 1682 | 1323 | 1638 | 1320 | 809 | 809 | 785 |
| 4. | Other Millets | 1936 | 3173 | 2662 | 1505 | 2463 | 2138 | 777 | 776 | 803 |
| 5. | Pulses | 22921 | 20990 | 20207 | 16185 | 15014 | 14356 | 706 | 715 | 710 |
| 6. | Sugar cane | 6237 | 5623 | 5944 | 42822 | 28313 | 54808 | 6866 | 5035 | 9221 |
| 7. | Pepper | 178126 | 191596 | 172599 | 50309 | 68569 | 53774 | 282 | 358 | 312 |
| 8. | Chillies | 531 | 495 | 636 | 526 | 495 | 649 | 991 | 1000 | 1020 |
| 9. | Ginger | 15400 | 12925 | 13926 | 45403 | 46455 | 52614 | 3265 | 3594 | 3778 |
| 10. | Turmeric | 2738 | 3968 | 3757 | 5662 | 9559 | 8413 | 1910 | 2409 | 2239 |
| 11. | Cardamom | 43670 | 44248 | 43043 | 3450 | 5380 | 4736 | 79 | 122 | 110 |
| 12. | Areca nut (million nuts) | 63437 | 70899 | 72799 | 13116 | 17429 | 15464 | 206756 | 229999 | 212420 |
| 13. | Banana | 22602 | 26267 | 25723 | 303620 | 362919 | 378668 | 13410 | 13817 | 13946 |
| 14. | Other Plantain | 42467 | 46594 | 46386 | 211186 | 229493 | 231967 | 4552 | 4925 | 5001 |
| 15. | Cashewnut | 112059 | 103284 | 100497 | 104601 | 82759 | 78439 | 933 | 801 | 781 |
| 16. | Tapioca | 141881 | 113598 | 142032 | 2657865 | 2500113 | 2588306 | 18733 | 22008 | 18223 |
| 17. | Sweet Potato | 2457 | 1798 | 2084 | 19951 | 21775 | 15977 | 5120 | 12111 | 7667 |
| 18. | Ground Nut | 14041 | 12994 | 14312 | 10436 | 9663 | 9877 | 743 | 744 | 690 |
| 19. | Sesamum | 9006 | 6255 | 5261 | 1986 | 2131 | 1444 | 221 | 341 | 274 |
| 20. | Coconut (million nuts) | 863061 | 914370 | 1005459 | 4641 | 5155 | 5759 | 5377 | 5638 | 5728 |
| 21. | Cotton | 11922 | 10661 | 12289 | 19242 | 17206 | 20214 | 1614 | 1614 | 1645 |
| 22. | Tobacco | 204 | 152 | 208 | 382 | 285 | 479 | 1873 | 1875 | 2303 |
| 23. | Coffee | 84016 | 82348 | 82348 | 30960 | 45000 | 43890 | 369 | 546 | 661 |
| 24. | Tea | 34708 | 36775 | 36871 | 66803 | 64801 | 62593 | 1925 | 1762 | 1698 |
| 25. | Rubber | 425768 | 448988 | 449952 | 343109 | 474555 | 514500 | 806 | 1056 | 1143 |

* Provisional

Source: Directorate of Economics and Statistics ; UPASI

in the mid seventies contributing to an annual production of around 13 to 14 lakh tonnes of rice and 25 lakh tonnes of straw. The gaps in meeting the internal demand of food grains and straw were estimated to be around 50 per cent during that period. However, the increasing trend in area and production of rice which the state could maintain till the mid

seventies could not be sustained during the subsequent years. The fifteen year period from the mid seventies witnessed large scale shift in area under the crop resulting in a loss of around 4 lakh ha of gross cropped area. Consequently the production of rice also suffered severe set back during this period. Even though the state could make some dent into this problem by

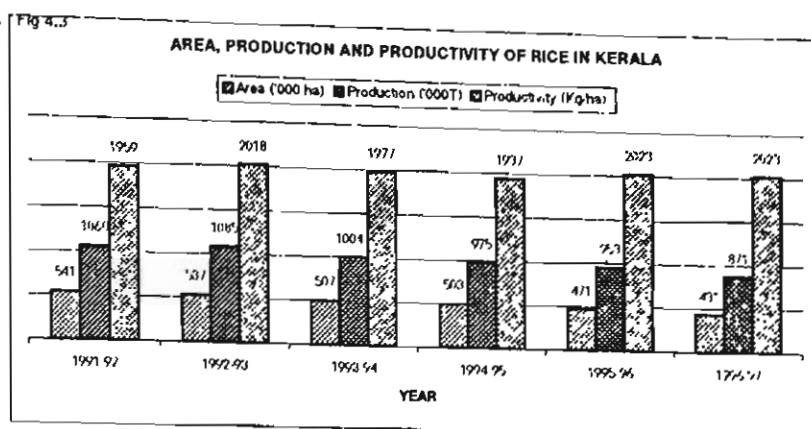
Table 4.5

Area, Production and Productivity of Rice in Kerala and India

| Year | Area('000ha.) | | Production('000t) | | Productivity(kg/ha) | |
|----------|---------------|-------|-------------------|-------|---------------------|-------|
| | Kerala | India | Kerala | India | Kerala | India |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1991-92 | 541 | 42649 | 1060 | 74678 | 1959 | 1751 |
| 1992-93 | 537 | 41775 | 1085 | 72867 | 2018 | 1744 |
| 1993-94 | 507 | 42539 | 1004 | 80298 | 1977 | 1888 |
| 1994-95 | 503 | 42244 | 975 | 81157 | 1937 | 1921 |
| 1995-96 | 471 | 42910 | 953 | 79618 | 2023 | 1855 |
| 1996-97* | 431 | N.A | 871 | N.A | 2023 | N.A |

* Provisional

Source : Directorate of Economics and Statistics, CMIE



slowing down the decline in paddy area in the initial years of Eighth Plan, the estimates for 1996-97 shows that this could not be sustained. The area under rice has come down, further from 5.41 lakh ha in 1991-92 to 5.03 lakh ha in 1994-95, 4.71 lakh ha in 1995-96 and 4.31 lakh ha in 1996-97. Production declined to 9.53 lakh tonnes in 1995-96 and 8.71 lakh tonnes in 1996-97. (See fig. 4.3) In spite of the fact that state could maintain a level of productivity higher than the national average during the nineties, it was not adequate enough to compensate the loss in production on account of decline in area under the crop. Relevant statistics comparing it to national level is given in table 4.5.

4.10 Season-wise data on paddy cultivation reveals that the degree of reduction in area was more during the *virippu* season when the productivity of the crop is generally higher than the *mundakan* season. The *puncha* crop which is largely confined to the single cropped lands of Kuttanad and Kole also could not escape from the declining trend in area in spite of maintaining its superiority in the level of productivity over the other two seasons. The area under *virippu* crop which was around 2.2 lakh ha (40%) at the base year of Eighth Plan has come down to 1.6 lakh ha (38%) in 1996-97, the area under *mundakan* declined from 2.5 lakh ha (47%) to 2.1 (49%) and *puncha* from 0.7 lakh ha (13%) to 0.6 lakh ha (14%). (For details see appendix 4.8)

4.11 One of the major reasons for the poor performance of rice, particularly in respect of its yield is the poor coverage in the area under high yielding varieties (30%). The coverage in absolute terms more or less was stagnant around 1.5 to 1.7 lakh ha. The fact that HYV coverage did not record proportionate decline in spite of sharp fall in area under the crop is indicative of a likely scenario that rice cultivation is stabilising in areas where there is scope for raising high yielding varieties having the potential for higher productivity. Season-wise coverage of HYV is given in appendix 4.9 which does not show any major change in the proportion of coverage. The data for 1996-97 show that the percentage coverage under HYV is 40 during *virippu*, 36 during *mundakan* and 4/137/98—3

24 during *puncha*. This is more or less on the same pattern during the base year i.e. 1991-92.

4.12 District-wise analysis of the performance of the crop (appendices 4.10 & 4.11) shows that the productivity is higher than the state average (2023 kg/ha) in the districts of Palakkad (2291 kg.), Wayanad (2199 kg.), Kuttanad a part of Kottayam (2165 kg.), Pathanamthitta (2157 kg.), Alappuzha (2055 kg.) and Thrissur (2036 kg.). The traditional rice growing districts of Kottayam, Alappuzha, Ernakulam, Thrissur and Palakkad still accounts for about 2/3 of the area under the crop in Kerala. It is also significant to note that the rate of decline in area under rice was less in these tracts compared to other parts of the state. Most of the major irrigation projects in Kerala are also located in these districts. Viewing the present situation from all these angles, the strategy for rice production calls for a new reorientation under an integrated approach with emphasis on productivity improvement through additional infrastructural support, concentrating the efforts in such potential tracts.

Production Programmes for Rice

4.13 The important production support programmes implemented through the Department of Agriculture for rice cultivation during the Eighth Five Year Plan are given in appendix 4.12

4.14 Group farming was the major strategy adopted under the Eighth Five Year Plan for promotion of rice production. During the first year of the plan, group farming samithis were given assistance on the basis of the area under rice cultivation, with flexibility in operation for utilizing the assistance as per local needs as identified by Samithis. The plan outlay of six crores rupees made available to the Samithis was accordingly utilized for a variety of activities according to local preference. They included promotion of community nurseries, popularisation of chemical weed control, control of pest and diseases, distribution of soil ameliorants and distribution of farm machinery. In 1992-93 Government of India provided Rs.16.84 crores under the Prime Minister's Programme in lieu of the withdrawal of subsidy on fertilizers for taking

up infrastructural improvements in which group farming samithies were actually involved. From 1993-94 onwards, instead of piecemeal and sporadic activities mostly centred around subsidised distribution of agricultural inputs, it was decided to put emphasis mainly on infrastructure. Accordingly location specific development works like irrigation, land reclamation, drainage etc, were supported from the plan outlay earmarked for rice development.

4.15 Along with this a major programme was also launched for supporting traditional rice areas where optimal production is constrained due to special problems. These programmes were implemented through beneficiary committees/special development authorities constituted for the purpose. To begin with separate development authorities were constituted for kole lands of Thrissur and high lands of Wayanad during Eighth Five Year Plan. This was followed by constitution of eight more authorities which include Purakkat kari lands, Onattukara, Ponnani Kole and Palakkad during 1996-97. These authorities are expected to make an indepth analysis of the problems confronting rice production and develop location specific bankable programmes for tackling them in a timebound manner, to be taken up with a participatory approach availing institutional finance. Thanks to the timely support of NABARD under its Rural Infrastructural Development Fund (RIDF), the Kole project in Thrissur could be completed. Similar infrastructural development programmes are on the anvil by other special development authorities.

4.16 The total investment on rice development during the Eighth Five Year Plan out of the budgetary resources was of the order of about Rs.139 crores. During 1996-97 special development supports and other incentives given to rice growers included free supply of electricity to rice growers for irrigation and other production purposes, production

bonus for rice cultivation at an enhanced rate of Rs. 350 per ha etc. Marketing support was also extended to major rice growing areas such as Palakkad and Kuttanad by giving an incentive of Rs.100 per qtl. of paddy procured by co-operatives.

4.17 In the light of the deep concern expressed by the Farmers organisations on the sharp decline in the area under rice cultivation recorded in the recent past, State Government appointed an Expert Committee in 1997 to go into the question in detail, study the special problems connected with rice cultivation and to suggest measures for arresting diversion of paddy lands for other purposes.

Coconut

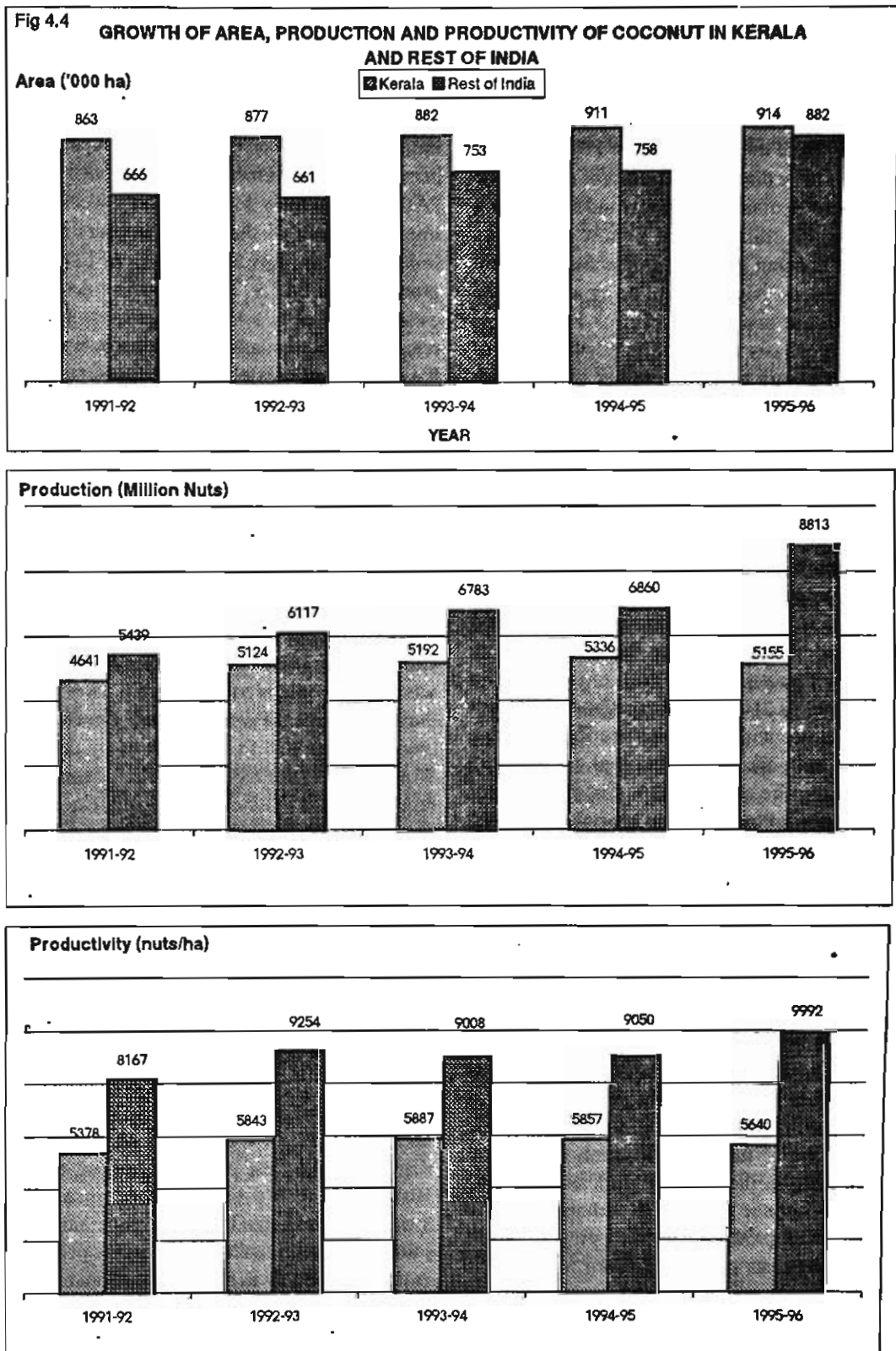
4.18 The area under coconut has increased from 9.14 lakh to 10.05 lakh ha and the productivity has improved from 5638 to 5728 nuts per ha. The crop could maintain its positive trend in production through out the Eighth Five Year Plan starting from 4641 million nuts in 1991-92 and ending with a record production of 5759 million nuts. The annual average growth in production works out to five percent. Coconut being the crop occupying the largest area (45%) in net cropped area and supporting the vast majority of the farming community, the rural prosperity of Kerala is closely linked with the fortunes of this crop. Although the impressive and steady performance in productivity has helped in augmenting the income of the coconut growers considerably, its full benefit could not be realised since its farm price remained unstable through out the plan period. The years 1993-94 and 1994-95 witnessed sharp decline in the prices of coconut and its products. The average price of coconut declined from Rs. 3475 per thousand nuts in 1991-92 to Rs. 3290 per thousand during 1993-94 and Rs.2750 per thousand in 1994-95. Copra prices

Table 4.6
Area, Production and Productivity of Coconut in Kerala and India

| Year | Area('000ha) | | Production (million nuts) | | Productivity (nuts/ ha) | |
|----------|--------------|-------|---------------------------|-------|-------------------------|-------|
| | Kerala | India | Kerala | India | Kerala | India |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1991-92 | 863.06 | 1529 | 4641 | 10080 | 5377 | 6593 |
| 1992-93 | 877.01 | 1538 | 5124 | 11241 | 5843 | 7310 |
| 1993-94 | 882.29 | 1635 | 5192 | 11975 | 5885 | 7324 |
| 1994-95 | 910.96 | 1669 | 5336 | 12196 | 5858 | 7309 |
| 1995-96 | 914.37 | 1796 | 5155 | 13968 | 5638 | 7777 |
| 1996-97* | 1005.46 | N.A | 5759 | N.A | 5728 | N.A |

* Provisional

Source: Directorate of Economics and Statistics, CMIE.



declined from an average of Rs.2845 per qtl. in 1991-92 to Rs.2100 in 1994-95. The decline in these prices was much greater in real terms. The massive procurement operation under the Market Intervention with the Support Price Mechanism of Govt. of India, with a support price of Rs.2350 per qtl. of copra did not help to improve the price situation. Prices continued to fall till 1995-96 and only during 1997 there was some improvement in coconut price. The fall in price is attributed to the spurt in supply, 4/137/98—3A

consequent to the expansion in output and area in not only Kerala but also in fact more in the rest of India. The increase in area and production of coconut in Kerala during the period from 1980-81 to 1995-96 was from 6.6 lakh ha to 9.1 lakh ha and from 3036 million nuts to 5155 million nuts respectively while it was from 4.2 lakh ha to 8.8 lakh ha in respect of area and from 2684 million nuts to 8813 million nuts in respect of production, for the rest of the regions in the country. (See fig. 4.4)

4.19 An important question that arises in this context is with regard to the farmers' income which without adequate protection are bound to decline in real terms in circumstances where prices decline faster while output increases. Protection for the farmers has to be thought of in terms of appropriate policies on both demand and supply sides including import policy. Liberalisation of import of cheaper substitutes of coconut products impinges direct on the domestic prices. Also coconut being a traditional crop with a large proportion of area having low productivity, emphasis should be on rehabilitation of old and uneconomic plantings rather than further expansion in area.

Production Programmes for Coconut

4.20 Coconut development activities were expanded during the Eighth Five Year Plan period. For the first time in the history of coconut development in Kerala a comprehensive development programme for coconut was launched integrating the state and centrally sponsored programmes, linking them with institutional finance. The total outlay of the programme was Rs.210 crores. Irrigation support and better management with focus on scientific manuring were the two activities which received considerable attention during the Eighth Plan. Coconut belt of Kerala is largely spread over the coastal region and the valley portion of the midland region where the ground water endowment is rich. The scope for expansion of irrigation support through filter point and open dug wells is considerable. Providing irrigation support to coconut garden not only help to improve the productivity of coconut but also open up new opportunities for augmenting the income from coconut holdings through intercropping and mixed farming. As the availability of land is limited, most of the traditional annual and seasonal crops such as banana, plantain, vegetables, minor tubers, cattle fodder etc. have to find accommodation in the inter spaces available in the coconut gardens. Providing irrigation to coconut gardens is perhaps the most critical support for promoting intercropping. It appears that the message has percolated down to the Local Self Governments and integrated development of coconut holdings is emerging as the major component in the local plans of the grama panchayats.

4.21 Along with support programme for augmenting production, marketing support for stabilizing the price of coconut and its products is extremely important. Kera Karashaka Sahakarana Federation (KERAFED) was organised with the objective of procurement, processing and marketing of coconut and its products through its primary co-operative society/PACS members. The EEC assisted Project implemented by KERAFED with a total outlay of Rs.104.78 crores could not be completed with in

the time schedule prescribed. The experience with the first coconut oil extraction complex established at Karunagapally with a milling capacity of 60000 tonnes of copra per annum is not encouraging. The capacity utilisation of the plant is around 20 percent, principally because the procurement of copra through the member PACS is extremely low. The main weakness in the implementation of the project appears to be in the linkages of the PACS with KERAFED and of the growers with PACS. The original project envisaged establishment of two additional processing complexes, one each at Emakulam and Kozhikode. However, EEC has decided not to extend further support to the project.

Pepper

4.22 Kerala continues to hold the monopoly in pepper production. According the crop area estimates for 1995-96, the State accounts for 1.91 lakh ha out of 1.98 lakh ha in the country. A very substantial proportion (36%) of domestic output is exported. In 1995-96, pepper exports amounted to 24419 tonnes valued at Rs. 183.1 crores. Pepper is one of the crops which has registered substantial increase in area during the Eighth Five Year Plan. The area under the crop has expanded to 1.91 lakh ha by the end 1995-96 from 1.78 lakh ha in 1991-92. Consequent to the crop failures in other exporting countries in the world the price of pepper has remained buoyant throughout the Eighth Plan period. Although productivity of the crop recorded some improvement, it remained low with in the range of 270 to 350 kg per ha, much below the potential. Despite the price boom experienced during the last few years, (average price increased from Rs. 30 per kg in 1991-92 to Rs. 73 per kg in 1995-96) the state failed to utilize this opportunity for rejuvenating the old plantations and stepping up productivity significantly. The crop suffered heavy damages in the major producing districts of Wayanad and Idukki due to wide spread attack of quick wilt disease in the first two years of the eighth plan. However it could be continued through a very systematic campaign by organising control measures jointly by the research and extension personnel. The exports are largely in raw form without any sustained efforts for value addition. A number of initiatives have been taken by Spices Board for product diversification and export promotion. Continuing productivity and quality improvement is necessary for meeting the emerging challenges in the international market. On the advice of the Central Government, the State Government has drawn up a Technology Mission for pepper involving an outlay of Rs. 218 crores spread over seven years, commencing from 1996-97. Anticipating final clearance for the project the Government of Kerala have already initiated action for implementing the activities with financial support from centre. Government of India in recognition of

the initiative by the State Government stepped up the central assistance for 1996-97 by Rs. 2.50 crores over and above the normal funding of Rs. 16.00 crores, facilitating the immediate launching of the programme. Area, Production and Productivity of the crop during the last six years in Kerala and India are given in table 4.7

Table 4.7
Area, Production and Productivity of Pepper
in Kerala and India

| Year | Area ('000 ha) | | Production ('000 t) | | Productivity (kg/ha) | |
|----------|----------------|-------|---------------------|-------|----------------------|-------|
| | Kerala | India | Kerala | India | Kerala | India |
| t | 2 | 3 | 4 | 5 | 6 | 7 |
| 1991-92 | 178 | 184 | 50.31 | 52.0t | 282 | 282 |
| 1992-93 | 183 | 189 | 49.67 | 50.8 | 271 | 268 |
| 1993-94 | 184 | 191 | 49.55 | 51.3 | 269 | 269 |
| 1994-95 | 187 | 195 | 59.26 | 53.1 | 317 | 272 |
| 1995-96 | 192 | 198 | 59.9 | 61.6 | 312 | 311 |
| 1996-97* | 173 | N.A. | 54 | N.A. | 311 | N.A. |

*Provisional

Source : Directorate of Economics and Statistics, CMIE

4.23 Important activities taken up/support given for the development of the commodity during the Eighth Five Year Plan are given in appendix 4.14.

Cashew

4.24 The area under the crop which touched an all time high of around 1.55 lakh ha by the end of Seventh Plan has come down to around one lakh ha by the end of Eighth Plan. The sustainability of the crop in Kerala is in real threat on account of the surging pressure for replacement with rubber. Despite implementing a special programme for area expansion the crop suffered loss in area to the extend of around 7000 ha. (See Fig.4.5) The productivity of the crop is also stagnant around 800 kg which is only just 50 per

cent of its potential. Improving the production of cashew was one of the important mission taken up by Government of India during Eighth Five Year Plan. Important programmes implemented for cashew development during Eighth Plan are given in appendix 4.15.

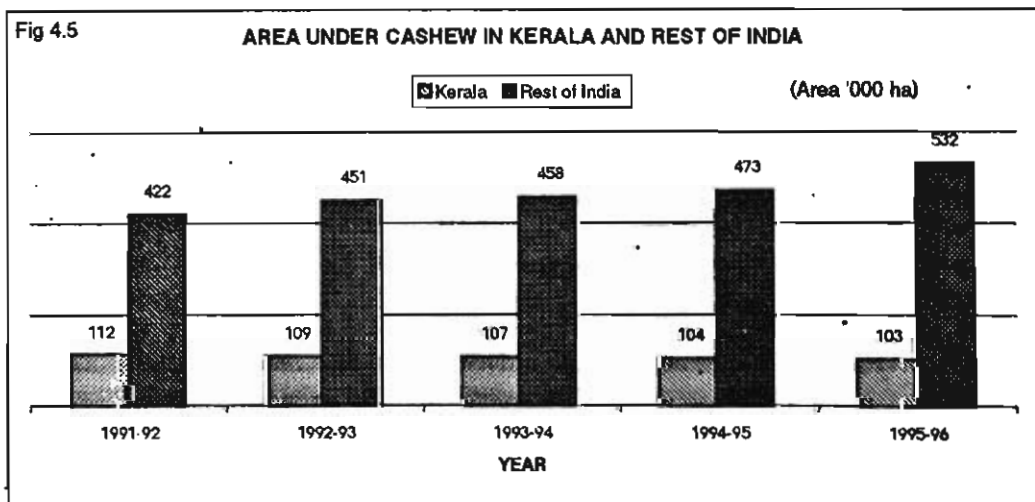
Plantation Crops

4.25 Of the total area in the country under plantation crops, comprising of rubber, tea, coffee and cardamom, Kerala accounts for about 45 per cent. They together cover about 1/4 of the net cropped area in the State occupying a vast tract of very productive land, giving employment to nearly 3.6 lakh people. Kerala State accounts for 86 per cent of the area under rubber, 9 per cent under tea, 27 per cent under coffee and 53 per cent under cardamom.

Rubber

4.26 Among the plantation crops, rubber is the largest with regard to coverage of area. Out of a total area of 5.23 lakh ha under rubber cultivation in the country, 4.49 lakh ha are in Kerala. During Eighth Plan nearly 30000 ha were brought additionally under rubber. The productivity of the commodity in Kerala is also relatively high with an average of 1140 kg/ha. According to the estimate of Rubber Board & UPASI the productivity on the basis of area tapped works out to 1.5 tonnes/ha. The production of rubber in Kerala has substantially increased from 3.43 lakh tonnes in 1991-92 to 5.14 lakh tonnes in 1996-97. For the whole country, rubber production in 1996-97 was 5.49 lakh tonnes.

4.27 Domestic consumption of natural rubber in the whole country increased by 6.8% from 5.25 lakh tonnes in 1995-96 to 5.62 lakh tonnes in 1996-97. The total import of natural rubber during 1996-97 was 18057 tonnes compared to 51635 tonnes in 1995-96. The average rubber price which had peaked to an average of Rs. 52 per kg during 1995-96



declined to Rs. 49 during 1996-97. The price situation towards the end of 1997 has deteriorated touching a low of around Rs. 28/kg, making rubber cultivation non remunerative. State Government have initiated a number of steps for protecting the rubber growers from the unprecedented fall in prices faced by them. Important among them include withdrawal of purchase tax for rubber, procurement of rubber from the growers through RUBCO, a state level Corporative and State Warehousing Corporation at a price which is higher by two rupees over the prevailing market price. Data relating to area and production, trend in price and consumption pattern are given in appendices 4.16, 4.17 & 4.18 respectively.

Coffee

4.28 The average price per kg of coffee which was in the range of Rs. 42 to Rs. 75 during 1994-95 has skyrocketed to an average of Rs. 89 in 1995-96 and the trend was continuing without much change during 1996-97. Being a perennial crop, coffee does not respond to price fluctuations in the short run and the area under cultivation remained more or less constant around 82000 ha. On the other hand the impact of favourable trend in prices has very well influenced the supply position in the form of incremental production through better management of existing plantations.

4.29 In coffee Kerala's contribution to total national output is relatively small. As against all India production of 1.90 lakh tonnes in 1996-97, Kerala's share was 0.44 lakh tonnes, that is, 23 percent. The State's production in 1996-97 of 43890 tonnes was its peak level so far. Although the productivity of coffee in Kerala has increased from 466 kg/ha in 1991-92, at the beginning of Eighth Plan, to 661 kg/ha by the

end of 1996-97. It is still below all India average of 847 kg/ha. It was during the eighth plan that the monopsonic procurement system organised through the Coffee Board has crumbled with the Government of India lifting the restrictions on coffee trade.

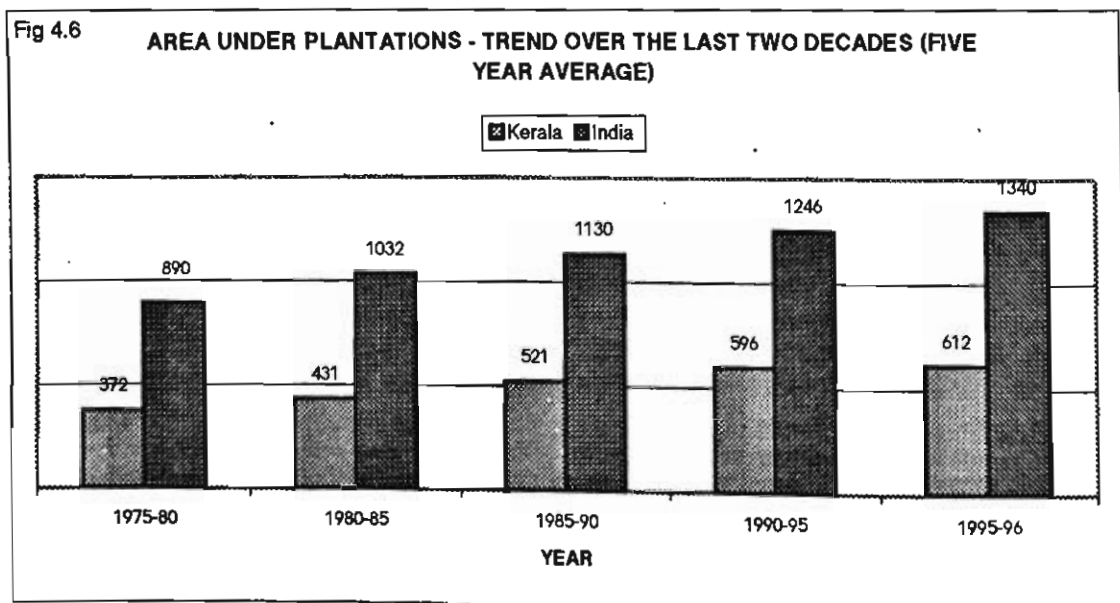
Tea

4.30 The area and production of tea in Kerala has remained more or less constant. During 1996-97 tea covered an area of 36871 ha with a production of 62593 tonnes. Thus Kerala accounted for only eight per cent of all India production of tea. The productivity of the crop in Kerala as well as in the country remained much below its potential. Kerala's productivity is below all India level. In Kerala tea plantations under estate management need immediate steps for rehabilitation.

Cardamom

4.31 The induction of new technology has helped to step up the production to 4200 tonnes by the end of 1996-97 from a low level of around 3500 tonnes. The average productivity which was hovering around 79 kg/ha has increased to 129 kg per ha by the end of the Eighth Plan. The trend is that the crop would further consolidate its productivity in the coming years through the induction of new technology and management. Although the country has been edged out in export due to the competition from other exporting countries the demand for cardamom for internal consumption has considerably strengthened saving the commodity from a disaster.

4.32 Consolidated data on the area, production and productivity covering all the four plantation crops are given in appendix 4.16 (See fig. 4.6)



Vegetables and Fruits

4.33 Kerala has the natural endowments conducive for a wide variety of horticultural crops particularly vegetables and fruits. However, adequate priority and attention was not given for their development in the past.

4.34 The Kerala State Horticulture Products Development Corporation (KHPDC) was established in 1989 and the Kerala Horticultural Development Programme (KHDP) implemented with EEC assistance from 1991-92 onwards. The objective of KHDP is to improve the economic status of the vegetable and fruit growers in Kerala by evolving replicable and sustainable farm models along with appropriate institutional mechanism for marketing with the active participation of the farmers. The project also aims at establishing a processing plant with a capacity of processing one lakh tonnes of fruits such as pineapple, mango etc which is under construction. KHPDC's activities during the first four years of the Eighth Five Year Plan did not make much impact on the vegetable programmes in the state. It was only during 1996-97 a major initiative was launched which comprised of commercial cultivation in 112 selected locations extending over 1680 ha, organisation of commercial cultivation of cool season vegetables in Munnar area with tie up arrangements for regular procurement, and distribution net work organised by the corporation which included sales depots established on self employment basis, linking it with the Prime Minister's Self Employment Programme. Development support given for vegetables and fruits during Eighth Plan under these projects are given in appendix 4.19.

Supplies and Services

4.35 The State could build up a relatively strong net work supplies and services. They include Krishi Bhavans manned by agricultural graduates in all the panchayats for transfer of technology and organising agricultural services. Planting material delivery systems developed would include 32 State Paddy Seed Farms, 10 District Farms and 16 Coconut nurseries besides organising about 600 private nurseries with special financial support from the State Government. The elaborate infrastructural base developed over the years is meant to serve as the delivery system for the supply of seeds and planting materials to the farmers. Seed distribution during 1995-96 and 1996-97 was more or less on the same pattern as in the previous years, distributing about 4000 tonnes, mainly from departmental sources and registered seed growers programme. This is an activity which will require considerable streamlining particularly for meeting the requirements of field crops such as paddy, pulses, vegetables, seasonal oil seeds and green manures under the decentralised planning

set up under the local bodies.

4.36 Fertilizer consumption which suffered a severe set back in 1993-94, consequent on the enormous hike in the prices of phosphatic and potassic fertilizers has not recovered from the fall in consumption. The consumption during 1996-97 has further declined from 2.03 lakh tonnes in 1995-96 to 1.88 lakh tonnes. Consequently the average consumption per gross cropped area in respect of Kerala which was 75 kg/ha has come down to 62 kg/ha. Details are given in appendix 4.20

4.37 For plant protection, the strategy is one of need based adoption of chemical control and consequently any reduction in the consumption of P.P. chemicals without any adverse impact on crop production is considered to be a positive feature of agricultural production. The performance of Kerala during 1996-97 in this regard was satisfactory when viewed from this angle as there was considerable reduction in the consumption of insecticide and fungicides. Even the gall midge attack which affected paddy crop in Kuttanad during 1996-97 causing extensive damage could be brought under control through the adoption of integrated pest management systems. Selected indicators of progress are given in appendix 4.21.

AGRICULTURE RESEARCH AND EDUCATION

4.38 Agricultural research and education in the state is exclusively the responsibility of the Kerala Agricultural University (KAU). The original allocation for the KAU under Eighth Plan was Rs. 33.00 crores. But the state has made available 47.54 crores through the annual plans. The expenditure of the university during the period is Rs. 159.81 crores which includes non-plan grant from government of Kerala, grants from ICAR, assistance from Departments of Electronics & Science and Technology, FERRO, USDA, Hindustan Cocoa Products Limited, Commodity Boards as well as the internal revenue of the University.

A. Education

4.39 Kerala Agricultural University has eight educational institutions under it. Number of students admitted for the various undergraduate and post graduate courses and those completed during the plan period is furnished in appendix 4.23(a). Strengthening the education base by starting a new Agricultural College at Nileswar in Kasargod district, introduction of special courses like B.Sc. (Dairy Science and Technology) and diploma in Meat Technology and Dairy science and increasing the intake capacity of students for B.V.S.C & A.H course from 100 to 120 per year from 1993-94 onwards as well as the establishment of a well equipped Central Library at the University headquarters, were the major

initiatives on curriculum development by the university during the Eighth Five year Plan.

B. Research

4.40 With the introduction of National Agricultural Research Project (NARP) the research activities in the state has been restructured and classified on the basis of five agro-climatic zones, viz. Northern, Central, Southern Special and High range with their headquarters as Regional Agricultural Research Stations at Pilicode, Pattambi, Vellayani, Kumarakom and Ambalavayal respectively. During the eighth plan period the University released 38 high yielding crop varieties a high yielding oyster mushroom strain 'Ananthan', one commercial layer of poultry 'Athulya' and another layer 'Gramalakshmi, suitable for backyard system of rearing. It also developed a coconut dehusking device and a new homestead cage system for rearing layers. Research capability of the university has been strengthened with the starting of tissue culture laboratories at Vellayani, Kayamkulam, Vellanikkara and Ambalavayal, Strengthening of the pigling production capacity of the Pig Farm at Mannuthy and starting of frozen semen production unit in the college of veterinary and Animal Sciences. Central sector schemes for the development of spices, cashew, cocoa and medicinal and aromatic crops along with NWDPR research programmes are also taken up by the university. Thrust is given for the development of hybrid and scented rice varieties, export oriented vegetable and cut flower varieties, integrated pest and disease management studies, organic farming and biofertilizers and research on honeybees and mushrooms.

C. Extension Education

4.41 The extension education programmes for the university are implemented through the Communication Centre, Farm Advisory Service, Central Training Institute, Information cum sales Centres (6 Nos.) Krish Vigyan Kendras (4 Nos.) and Village Adoption Programmes.

SOIL AND WATER CONSERVATION

4.42 In view of the relatively high rainfall pattern, and undulating topography soil and water conservation assume critical importance for sustaining agricultural production in Kerala. Preliminary estimates by the Soil Conservation Department indicate that out of a net cropped area of 22.8 lakh ha about 9.5 lakh is highly prone to erosion hazards. Prior to the commencement of the Eighth Plan the pace of soil conservation activities in the State through the departmental programmes was rather slow and the cumulative coverage till the end of 1991-92 was only around one lakh ha, with an annual coverage of around 2835 ha.

4.43 As part of the new strategy for the Eighth Plan the financial assistance under the soil conservation programme was rationalised. Government used to provide both loan and grant through budgetary support for soil conservation in arable lands. The scheme has since been modified as a credit linked one making it possible to utilise the entire budgetary resources for support in the form of subsidy. This policy decision coupled with the substantial financial assistance rendered by Central Government and NABARD for the soil and water conservation activities in the watersheds of the State gave an impetus for the programme during this plan period. As a result, soil and water conservation programmes could be implemented in 1.12 lakh ha during the plan period which exceeded the cumulative coverage (1.01 lakh ha) upto 1991-92. The annual average area coverage during the Eighth plan was 22000 ha. as against only 2835 ha. till the end of 1991-92. During the plan period an amount of Rs.4713.03 lakh was invested in this sector.

4.44 During the plan period emphasis was on watershed based programmes. The soil and water conservation activities in the state were carried out under five major programmes viz. the state plan, the RIDF programmes of NABARD, centrally sponsored schemes of NWDPR and River Valley Project, Kundah as well as the OPEC assisted Rainfed Farming Development Project.

4.45 Under the state sector scheme following credit linkage of programme, the annual coverage has increased from 1416 ha (1991-92) to 1703 ha. during the eighth plan. With the financial assistance of Rs.8.61 crores under the RIDF programme of NABARD soil and water conservation measures could be adopted in 3749 ha. in 37 watersheds spread over five districts viz. Thiruvananthapuram, Idukki, Wayanad, Kannur and Kasaragod.

4.46 The OPEC assisted Rainfed Farming Development Project was started in 1993-94 which also provided soil conservation support on a substantial scale. The project was implemented in 50 watersheds in the northern districts of Kannur, Kozhikode, Malappuram and Palakkad with a project area of 30340 ha and project outlay of Rs.59.80 crores. During the plan period the cumulative expenditure was Rs.28.86 crores. With only two years left for termination of the project, more than 50 per cent of the outlay is remaining unspent.

4.47 The NWDPR (National Watershed Development Programme for Rainfed Areas) was started in 1990-91 and implemented in 114 watersheds benefitting an area of 88276 ha with an expenditure of Rs.29.92 crores so far. Under River Valley Project, Kundah an area of 11071 ha could be protected during the Eighth plan and the annual coverage in 1996-97 was 1721 ha as against 2643 ha in 1995-96.

4.48 By the end of 1996-97 a cumulative area of 2.13 lakh ha (22% of the vulnerable area) could be brought under conservation activities through departmental programmes.

Soil Survey

4.49 Soil Survey unit in the State was reorganised in 1991-92 providing one field unit in all the 14 districts. The organisation undertakes reconnaissance and detailed soil surveys to delineate, identify and prioritise land and water use in the state. During the Eighth Plan the organisation covered an area of 25.43 lakh ha under reconnaissance survey and 15.51 lakh under detailed survey. The annual coverage under these programmes in 1996-97 were 3.19 lakh has and 52,562 ha respectively as against 3.73 lakh hectares and 50,000 hectares during 1995-96.

Future Perspective

4.50 Past performance of Kerala Agriculture front show a mix of commendable achievements and lost opportunities. Although the state has all the natural endowments, for a vibrant agriculture with a variety of agricultural commodities, in the context of the emerging pattern of trade, both national and international, increasingly relying on improving the efficiency in production both by increasing the productivity, with measures for ensuring cost effectiveness, and fine tuning the quality of the products the State has to reorient its farm front by identifying commodities which have a relative advantage for production in Kerala having a competitive edge over other producing areas and also concentrate their production in the agronomically suitable zones. The macro level support for identifying crops, the varieties suitable, locating the ideal zones for promoting those commodities, parent material support, specialised services/technological guidance, major infrastructural supports like irrigation, marketing etc. have to be extended from the state level through integration of the services of the different research and development agencies which the direct production support has to be entrusted to the local

bodies. The infrastructure for value added processing and marketing has to be strengthened in a big way by institutionalising permanent mechanisms on a collective basis and establishing appropriate linkages with agro industrial and processing units. Along with promotion of new agro industrial ventures including the streamlining of the credit delivery systems for the purpose, it is necessary to take special efforts to put to full capacity utilization of the units operating in the co-operative and corporate sectors. In the area of irrigation improving the efficiency of water management assumes critical importance. It is only through a major paradigm shift in the approach and strategy for agricultural development in Kerala on these lines the state's agriculture could be carried forward with more vigour and vitality.

4.51 The State Government have appointed an Agriculture Commission under the Chairmanship of Dr. M.S. Swaminathan to study the various aspects connected with agriculture and recommended a long term perspective for agriculture development.

LIVE STOCK

4. Live Stock Population

Kerala has a diverse livestock wealth. In its distribution it has acquired a regional pattern within the State largely influenced by the social and food habits of the people as well as its compatibility with the type of cropping system which has more or less stabilised in different agroclimatic regions. As can be seen from the information on changes in livestock composition in Kerala presented in Appendix 4.26 & 4.27 for the period covering last three decades. Characteristics which evolved over the decades are reflected in the Livestock Census of 1996.

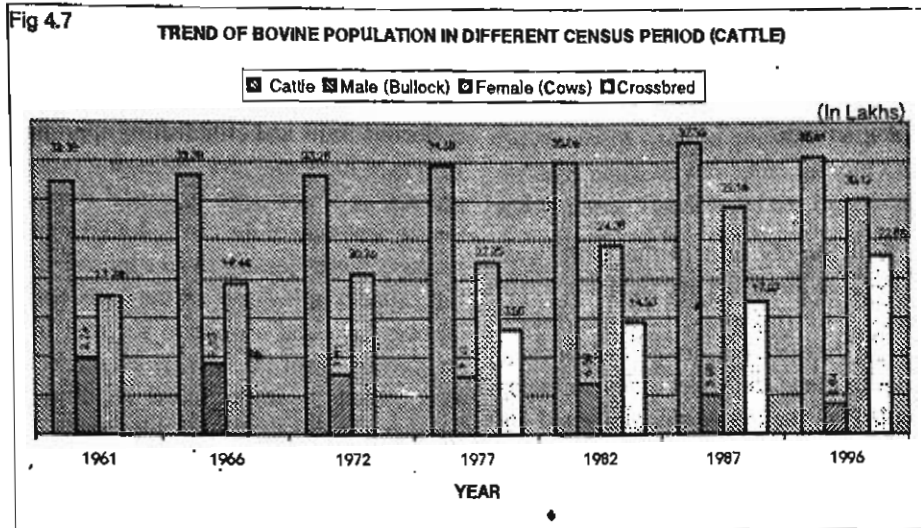
4.53 According to the Livestock Census (1996) in Kerala there are 34 lakh cattle, 1.7 lakh buffaloes, 18.6 lakh goats, 1.4 lakh pigs, 11.9 lakh ducks and 256 lakh poultry. The details are furnished in Table 4.8 (See fig. 4.7 & 4.8).

4.54 Between 1987 and 1996 significant reduction has taken place in bovine population from

Table 4.8
Livestock Population of Kerala

| Sl. No. | Spices | Census | | (No. in lakhs) |
|---------|---------|--------|--------|--------------------|
| | | 1987 | 1996 | Increase over 1987 |
| 1. | Cattle | 34.24 | 33.96 | (-) 0.28 |
| 2. | Buffalo | 3.29 | 1.65 | (-) 1.64 |
| 3. | Goats | 15.81 | 18.60 | 2.79 |
| 4. | Pigs | 1.37 | 1.42 | 0.05 |
| 5. | Poultry | 170.97 | 256.46 | 85.49 |

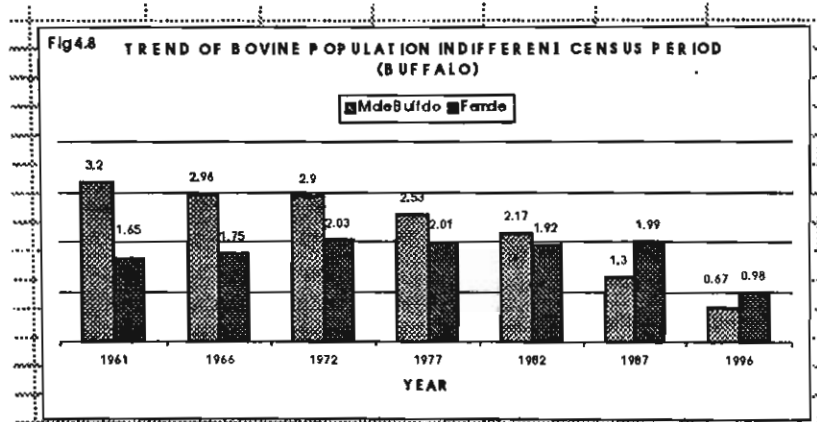
Source: Department of Animal husbandry



37.5 lakh to 35.6 lakhs (5.1%) while the decline in cattle population was marginal that of buffaloes was by one half. There has been an increase of 85.49 lakh in the population of poultry as well from 170.97 to 256.46 lakhs slight decline in the total number of cattle (0.81%) has not adversely affected the milk production as there was considerable increase (from 49.7% to 67.2%) in the crossbred. In 1996, crossbred population constituted over two thirds of the total population.

Weak Fodder - Feed Base

4.55 The State is finding it extremely difficult to sustain the present livestock population in view of the poor feed and fodder base in Kerala. With fragmentation leading increasingly to uneconomic marginal holdings and the sharp decline in area under paddy and pulses it is going to be hard to sustain the momentum in growth in milk production.



4.56 The internal supplies of straw available from our rice fields has shrink from around 60 per cent to nearly 30 percent consequent to the sharp and continuous decline in the area under paddy during the last two decades. As a consequence of the reduction in paddy area the farming community was compelled to reduce the number of cattle. Kerala

farmer, being rational, switched over to cows so that the limited straw could be used more economically. When the resource base has been further eroded, the preference was to maintain high yielding crossbreds reducing the total number of cattle but without adversely affecting the milk production (see table 4.9) In the process there was considerable reduction in the

Table 4.9
Year-wise estimates of milk, egg and meat production in Kerala from 1991-92 to 1996-97

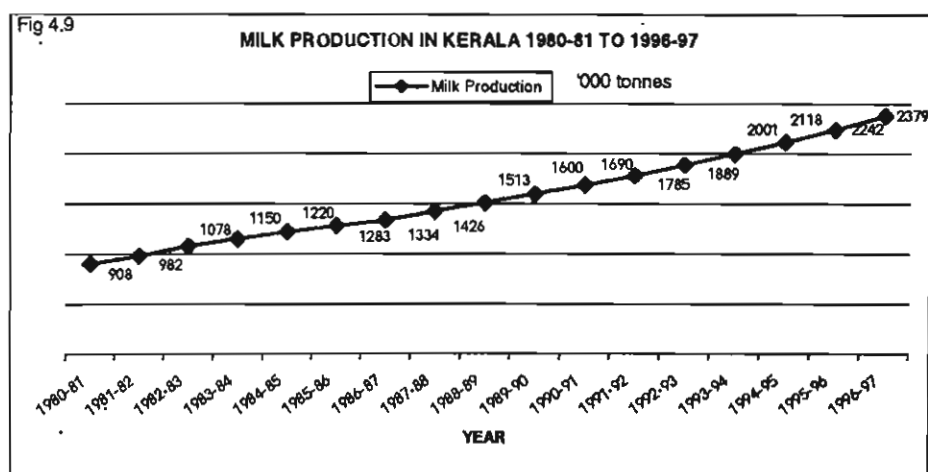
| Year | Milk (lakh tonnes) | Egg (million Nos.) | Meat other than Poultry (Tonnes) | Poultry Meat (Tonnes) |
|---------|--------------------|--------------------|----------------------------------|-----------------------|
| 1991-92 | 17.85 | 1605 | 96645 | 24000 |
| 1992-93 | 18.80 | 1661 | 105000 | 26000 |
| 1993-94 | 20.01 | 1844 | 101223 | 28000 |
| 1994-95 | 21.18 | 1918 | 103551 | 30000 |
| 1995-96 | 22.46 | 1991 | 105933 | 32000 |
| 1996-97 | 23.79 | 2069 | 108336 | 34000 |

Source: Department of Animal husbandry

draught animals, working bullocks and indigenous dairy cattle.

4.57 The investment in livestock sector presents a somewhat segmented picture, with emphasis on dairy and that too through herd improvement and health care, without commensurate effort for feed and fodder development. Without such effort, it will be difficult for the State to realise the full potential in milk output. Despite considerable increase in the proportion of high yielding crossbred animals in the total cattle population, the average milk yield per animal per day remains low at 5.6 litre compared to its potential of eight to ten litres. The future of dairy development in Kerala therefore depends on strengthening the feed and fodder base. Importing large quantity of feed and straw from the neighbouring States is prohibitively costly and alternatively new systems of feed management utilising indigenous raw material and adoption of appropriate technologies have to be thought of.

4.58 All these constraints notwithstanding, milk production in Kerala during the last two decades recorded steady and consistent improvement. The annual average growth during the last two decades is 9.3% as against 4.7% at the national level. During the Eighth Plan the average annual growth was 5.3 per cent. Milk production increased from 17.85 lakh tonnes in 1991-92 (base year) to 23.79 lakh tonnes in 1996-97. (See fig. 4.9)



a broiler breeding farm and hatchery at a total cost of about Rs.325 lakh, at Kodappanakunnu in Thiruvananthapuram district, having a capacity to rear 25000 parent stock and to hatch 56 lakh day old chicks per week. Also feed mixing plant has been started at an estimated cost of Rs.217 lakhs at Mala in Trissur district having a capacity to produce 23000 tonnes of poultry feed per annum. During 1996-97 a new brand of broiler viz., "KEPCO - VENCOB" was introduced to the Kerala market.

New Opportunities for Meat Production

4.61 Kerala has the relative advantage for substantially increasing the manufacture and export

4.59 Egg production increased from 1605 million in 1991-92 to 2069 million in 1996-97. The average rate growth was of 5.8%. Meat production increased from 0.97 lakh tonnes to 1.08 lakh tonnes during the same period. Although the supply of milk and meat from internal sources has made significant improvement the gap between demand and supply is still very large.

Poultry Development

4.60 Until early seventies the State was not only self sufficient in egg production but also exporting it to other states. Backyard poultry rearing which was unique and very popular in Kerala in the past is still the major source of egg production in the State. Commercial egg production, relying entirely on purchased feed, on the other hand, is binding it difficult to establish. An intermediate technology which fits in with the rural setting of Kerala and which reduces the external reliances has to be evolved for sustaining the growth in poultry production. With a view to giving special attention for the revival of poultry farming, particularly for taking up area specific egg development programmes in potential areas and to provide the required market tie up, Kerala State Poultry Development Corporation was established in 1989. However, the Corporation remaining almost dormant till its functioning was activated during 1996-97. The Corporation is now engaged in building

of meat and meat products as it is the only State which could build up and maintain a disease free zone against contagious diseases. Male calves a byproduct of the intensive cross breeding programme are estimated to number about 2.5 to 3 lakh per annum. If properly looked after for value addition, they could be profitably utilised for export. Details of milk, egg and meat production are presented in Table 4.9

Animal Health Cover

4.62 Health cover is another important support which should go hand in hand with an intensive cattle improvement programme. Veterinary

health care programmes are implemented through a network of institutions comprising of veterinary polyclinics, veterinary hospitals, mobile unit and district veterinary centres. Already all panchayats have been provided with a veterinary hospital/dispensary. Between 1991-92 and 1996-97 the number of veterinary dispensaries/hospitals increased from 823 to 1039. There were 8 Veterinary Centres with referral facilities, 51 veterinary polyclinics, 201 veterinary hospitals and 838 veterinary dispensaries functioning at the end of Eighth Plan.

Production of Vaccines

4.63 The Veterinary Biologicals, Palode is the sole agency involved in the production and distribution of animal vaccines in the State. During 1996-97, about 45 lakh doses of poultry vaccine and over 10 lakh doses of livestock vaccine were produced against 57 lakh doses of poultry vaccine and about 7 lakh doses of livestock vaccine produced in 1995-96. The number of vaccination done during 1996-97 was 3.40 lakhs for livestock and 18.28 lakhs for poultry. Details are furnished in Appendix 4.28.

Breeding Support

4.64 Breed improvement continued to be a major focus of the livestock development strategy. Kerala Livestock Development Board (KLDB) is the sole agency in Kerala involved in the production and distribution of frozen semen. The Board maintains four bullstations at Mattupetty, Peerumade, Dhoni and Kulathupuzha for production of frozen semen of crossbred, purebred bulls and buffalo bulls. During

1996-97 the Board produced nearly 25 lakh doses of frozen semen which is nearly 60% more than the previous year. The utilisation of frozen semen inside the State however was only nearly 15 lakhs as against 16 lakh doses utilized in the previous year. Production and utilisation of frozen semen during the Eighth Plan are given in Appendix 4.29.

4.65 The Department of Animal Husbandry is responsible for providing the artificial insemination support. The Eighth Plan envisaged providing one Centre for every 750 breedable cattle and accordingly targetted to establish 200 additional centres over and above the 2093 centres operating at the beginning of the Plan. The target could be achieved. Details are furnished in Appendix 4.30. During the year 11.5 lakh numbers of artificial inseminations were done and 3.33 lakh calvings were born. Although compared to the previous year the number of insemination done during 1996-97 was lower and calvings recorded were larger in number. During 1995-96 number for insemination was 12.40 lakhs and calves born were 3.23 lakhs. In 1991-92 inseminations numbered 13.74 lakhs whereas calvings were 2.62 lakhs. Details are furnished Table 4.10. The average number of inseminations per centre at the beginning of the plan was 756 and it was 502 by the end of the plan (See Table 4.10) Although the average number of inseminations per centre has come down, consequent to the expansion in the number of centres, it appears to have helped in improving the efficiency of service. With the expansion in the number of units, the average number of inseminations required for one calving has come down from 5 to 4.

Table 4.10
Number of Artificial Inseminations and the Calvings Record during Eighth Five Year Plan

| Year | No. of Artificial Insemination Centres | Artificial Inseminations | No. of Artificial Insemination per Centres | Recorded Calvings | Success rate, No. of Insemination per calvings |
|---------|----------------------------------------|--------------------------|--------------------------------------------|-------------------|------------------------------------------------|
| 1991-92 | 1821 | 1376761 | 756 | 262549 | 5 |
| 1992-93 | 1848 | 123360 | 668 | 261286 | 5 |
| 1993-94 | 2037 | 1353058 | 664 | 299358 | 5 |
| 1994-95 | 2097 | 1464941 | 698 | 306975 | 5 |
| 1995-96 | 2298 | 1240116 | 540 | 323958 | 4 |
| 1996-97 | 2293 | 1151189 | 502 | 332962 | 4 |

Source: Department of Animal husbandry

4.66 Apart from the frozen semen technology, the KLD Board is also engaged in research and development activities like progeny testing, embryo transfer, production of liquid nitrogen, fodder seed production and training programme. The Board has an embryo transfer centre at Mattupetti for

production of embryos, a goat farm at Dhoni for production of frozen semen and kids, pig breeding centre at Puthur for production of quality piglets etc. Other activities of the KLD Board are given in Appendix 4.31.

Milk Marketing

4.67 Marketing of milk in Kerala is in the bands of the Co-operative Milk Marketing Federation (KCMMF) as well as the unorganised sector, supporting a large number of milk vendors. With the advent of the Operation Flood Programme, under the aegis of the KCMMF, a well established system for regular procurement of milk from the producers and distribution of standard milk to the regular consumers became a reality and it has helped ensuring better returns to the dairy farmers. With the implementation of the North Kerala Dairy Project, supported by Swiss Development Agency, the entire state was brought under the network of APCOS for procurement of milk.

4.68 The KCMMF had a net work of 1471 Anand Pattern Primary Milk Co-operative Societies under the two Unions namely Thiruvananthapuram and Ernakulam before the Eighth Five Year Plan. Marketing support was extended to the Malabar region during Eighth Plan under the North Kerala Dairy Project assisted by Swiss Development Agency. Consequently the number of producers Unions has increased to three. The numbers of societies increased to 1814, membership to 5.17 lakh, average milk procurement to 4.35 lakh litres per day and average milk marketed to 5.16 lakh litres per day. In the past year milk procured decreased from 4.85 lakh litres in 1995-96 to 4.35 lakh litres per day in 1996-97. The marketing of milk on the other hand increased to average of 5.16 lakh litres per day from 4.58 lakh. Details are furnished in appendix 4.32. The average number of members per society has increased from 230 to 262 during Eighth Plan, but the average quantity of milk procured increased only from 214 (1991-92) to 240 litres per day during the Plan period. Despite increase in the number of co-operative, the total

procurement of milk has not increased correspondingly. Yearwise procurement of milk per society is furnished in Appendix - 4.33. Procurement and sale of milk by different dairies for the last three years is presented in Appendix - 4.34

4.69 The average price for milk paid to the producer during 1996 and 1997 were Rs.8.25 and Rs.9.25 respectively. The price at which milk was supplied to the consumers was Rs.12 during 1997. The revision in the price of milk for the last 11 years is presented in Appendix 4.35.

4.70 During the year 1996-97 24.36 MT fodder seeds were produced by the KLD Board. A total area of 7739 ha. were reported to have been brought under fodder cultivation, 24 fodder banks were established, 148 silage and 138 hay units were started. Details are furnished in Table 4.11.

Cattle Feed

4.71 At present the State has two cattle feed plants functioning one at Pattanakkad and another at Malampuzha under the KCMMF. The feed production capacity of both these plants is 500 MT per day. The State Government initiated steps for establishing one more feed factory at Iringalakuda in Thrissur District under the Co-operative sector during the Eighth Plan with a capacity of 500 tonnes per day. Both the feed factories under the KCMMF are operating through the Primary milk co-operatives, for the distribution of their products. The production and distribution of concentrated cattle feed by the factories run by the KCMMF is far below their capacity. This calls for special efforts for reorganising the production and marketing particularly in the context of the establishment of one more factory for feed production.

Table 4.11
Production and procurement of Fodder Seeds and Area under Fodder Cultivation from 1991-92 to 1996-97

| Year | Quantity of Seeds produced (MT) | Quantity of Seed (MT) roots slips supplied to farmers | Area covered under fodder (Ha.) | Quantity of fodder produced (MT.) |
|---------|---------------------------------|-------------------------------------------------------|---------------------------------|-----------------------------------|
| 1991-92 | 50.73 | Seeds - 54 | 2980 | 89400 |
| 1992-93 | 67.67 | Seeds - 129 Rootsrips 96 (lakhs Nos.) | 6698 | 191000 |
| 1993-94 | 68.50 | Seeds - 100 Rootsrips 236 (lakh Nos.) | 5754 | 171000 |
| 1994-95 | 30.72 | Seeds - 135 Rootsrips 400 (lakhs Nos.) | 6927 | 200000 |
| 1995-96 | 38.82 | Seeds - 106 Rootsrips 483 (lakh Nos.) | 6550 | 235000 |
| 1996-97 | 24.36 | Seeds - 212 Rootsrips 438 (lakh Nos.) | 7739 | 274000 |

Source: KLD Board and Dairy Department

Better Management of Young Calves

4.72 Bringing down the age of first calving and reducing the inter calving period of crossbred cows have been recognised as one of the most effective measures for increasing milk production. With a view to secure this objective a cattle feed subsidy programme combining scientific feeding, health cover and management was under implementation during the Eighth Plan through milk co-operatives. Livestock Insurance Scheme for cattle introduced through the United Insurance Company was also linked up. During the Eighth Plan 61673 calves were given support. Analysis of the results shows that it has helped in bringing down the age of first calving from an average of 43 months to 30 months. During 1995-96, 25000 calves were additionally brought under the programme. Details are furnished in Table 4.12.

4.73 Average price situation in respect of both important inputs and outputs relating to livestock sector during Eighth Plan is presented in Appendix 4.36. The price of milk has recorded an increase of 89%, egg 79% and meat 135% during the period. On the other hand the increase in the cost of major input like straw (127%) and oil cake (114%) was higher resulting in an unfavourable terms of trade with regard to livestock production.

4.74 Average price of milk paid to the producer and realised from the consumer by the KCMMF are given in Appendix 4.37. Although the organised marketing net work and regular systematic procurement support by KCMMF provide the lead for stabilising the milk prices in the market on a stable ground, the share of producer in the price paid by the consumer is falling.

Table 4.12
Year-Wise Details of Calf Insurance

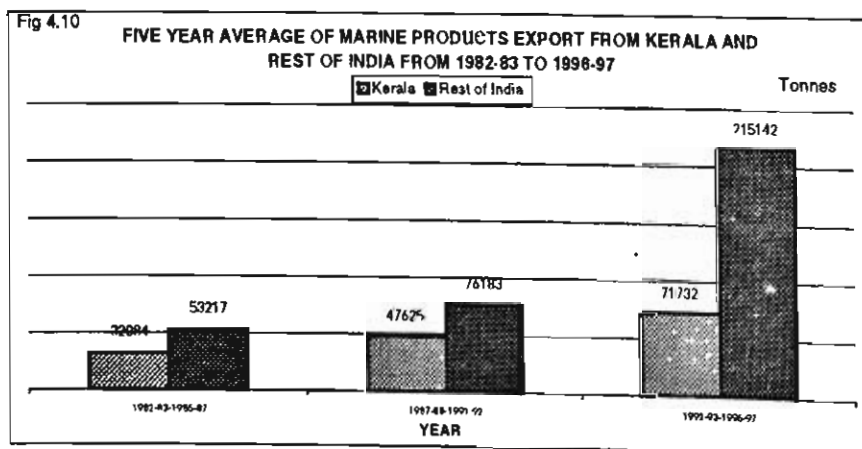
| Year | No. of Calves Insured under feed subsidy | Amount subsidised (Rs. in lakhs) |
|---------|------------------------------------------|----------------------------------|
| 1990-91 | 4769 | 2.39 |
| 1991-92 | 11431 | 11.43 |
| 1992-93 | 1673 | 1.67 |
| 1993-94 | 25000 | 25.00 |
| 1994-95 | 1000 | 10.00 |
| 1995-96 | 25000 | 25.00 |

Source: Department of Animal husbandry

FISHERIES DEVELOPMENT

Kerala is one of the leading fish producing states in the country. According to the production statistics of 1996, the fisheries sector contributed to about 2 percent of the Net Domestic Product of the State. The population dependent on this sector for sustenance was more than 3 per cent of the total. The State's contribution in the national marine production is around 24 per cent. In 1996-97, Kerala exported 92,288 tonnes of marine products, valued of Rs.936.2 crores (see Appendix 4.39). In terms of fish consumption and marine products export also, the state is far ahead of other states. (See fig. 4.10)

4.76 The fisheries resource base in Kerala comprises of 36,000 sq. km of marine water spread within 200 metres depth range (13000 sq. km inshore and 23000 sq. km offshore) and about 3600 sq. km of inland water spreads. It has been estimated that the maximum sustainable yield of Kerala's inshore waters is 5.7 lakh tonnes. And the total marine resource potential of the Kerala coast is around 10 lakh tonnes. The inland water spreads are almost entirely natural bodies consisting of brackish water areas, fresh water ponds and tanks, rivers, streams etc. including reservoirs. According to a survey conducted in the beginning of Nineties, by the Agency for Development



of Aquaculture, Kerala the natural wet land ecosystem amenable to economically viable fish culture activities available in Kerala works out to around 16000 ha.

4.77 Like agriculture, the pressure of population on the fisheries sector in Kerala is much higher than the national average. As per 1991 census, the total fishermen population in Kerala is 9.99 lakhs which include 7.75 lakhs in the marine sector and 2.24 lakhs in the inland sector. The total number of active fishermen in the State is 2.00 lakhs including 1.5 lakhs in the marine sector and 0.5 lakh in the inland sector. Among the districts, Thiruvananthapuram is having the largest fishermen population (1.6 lakhs) and Kollam comes next with a population of 1.5 lakhs. District-wise distribution of fishermen population in the State is furnished in Appendix 4.13.

4.78 The fishermen population in the State inhabit the entire length of marine coastline, as well as all along the network of estuarine areas. Geographically, the fishing activities in Kerala are spread over 200 village panchayats, 19 municipalities, and 3 Corporations. These account for around 8.6 per cent of the total area of the State. The density of population in the fishing villages works out to 2176 per sq. km as against 749 for the State.

MARINE FISHERIES

4.79 The trends in fish production in Kerala for the last one and a half decades is given in the Table 4.13

Table 4.13

Marine Fish Production in Kerala (1980 To 1996)

| Year | Production (tonnes) |
|------|---------------------|
| 1980 | 279543 |
| 1981 | 274394 |
| 1982 | 325795 |
| 1983 | 385817 |
| 1984 | 393471 |
| 1985 | 325536 |
| 1986 | 382792 |
| 1987 | 303286 |
| 1988 | 468808 |
| 1989 | 647526 |
| 1990 | 662890 |
| 1991 | 564161 |
| 1992 | 560742 |
| 1993 | 574739 |
| 1994 | 568034 |
| 1995 | 531646 |
| 1996 | 572055 |

Source: CMFRI, Kochi

4.80 The trend in marine fish production, shows that it was stagnating around 3.3 lakh tonnes per annum during the Eighties. In the Nineties, marine fish production increased to 5.7 lakh tonnes. This increase in fish production in the Nineties could perhaps partly be attributed to the resource conservation measure, namely ban on monsoon trawling introduced by the State Government since 1989.

4.81 Still a couple of disturbing trends also could be identified, if one looks at the species composition of marine fish landings. The most important change is because of the drastic decline in the production of oil sardine. The production of oil sardine which was as large as 1.06,263 tonnes in 1991, had declined to a mere 13,607 tonnes in 1996. Next is the decline in production of carangids and red mullets, which declined from 67,682 tonnes and 18,824 tonnes in 1991 to 15,193 tonnes and 83 tonnes respectively, in 1996. This trend is disturbing because, these varieties of fishes are all low valued varieties, predominantly consumed by the poorer sections of the society. (see Appendix 4.43).

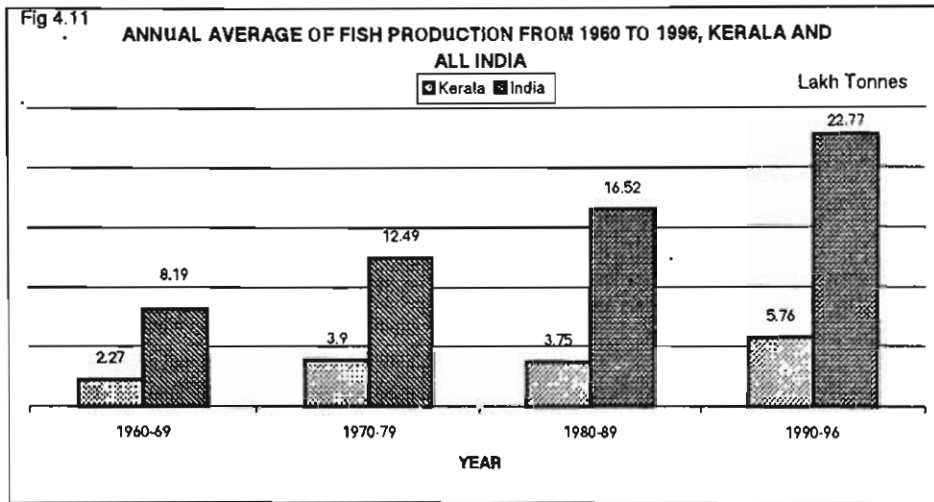
4.82 At the same time, there are clear indications that our inshore marine fishing resources has come under tremendous pressure from unbridled and indiscriminate fishing practices. Unregulated use of crafts, gears and adoption of a capital-intensive technology has resulted not only in depletion of marine fisheries resources, but also in reducing the accessibility of traditional fishermen to the marine resources.

4.83 In 1980-81 the number of crafts in use in the marine fishing sector of Kerala was estimated at 33,338. But by 1994-95, their number had increased to more than 50,000. The number of motorised fishing crafts has also increased at a fast pace. The Kalawar Committee set up by the State Government in 1984 had recommended that only 2500 motorised crafts be used for fishing in Kerala in the inshore waters. But a census conducted in 1991 showed that around 10,000 motorised crafts are conducting fishing operations in our inshore waters. According to the same census, around 50,000 fishing gears are used for fishing in Kerala's inshore waters. A number of banned fishing gears are also in use. The Balakrishnan Nair Committee of 1989, had recommended that ring siene nets should be banned in Kerala. But the above census noted that 2259 ring siene are being used for fishing in the State. The Committee had also recommended that the mesh size of fishing nets be standardised to 35mm. In actual practice, the mesh size of marine fishing nets range between 10-15 mm only. It is a fact that the introduction of mechanised fishing has led to the widening of area of operation (although below the desired level) and increase in the time spent in the sea for fishing. But despite substantial increase

in the number of craft and gears used for fishing, as can be seen from Table-4.13, the overall marine fish production has been stagnating. This clearly shows that the introduction of more and more vessels in to the inshore areas had led to enormous overcapacity and tendency towards over exploitation on the one hand, and increased cost of production on the other hand. All these speak of the need for strict regulations in the number, operations and area of operation of different types of fishing crafts. As part of the regulations, the State has been enforcing a total ban on bottom trawling during the monsoon season since 1989. Strict enforcement of other regulatory measures such as licensing the crafts, regulating their number etc. are also vital for sustaining the marine resource base. (See fig. 4.11)

4.84 The income level of fishermen in Kerala has also been stagnating. When we compare State Per Capita income and fishery sector income per fishermen in Kerala, between 1980-81 and 1994-95, we can clearly see that the income of fishermen has been lagging behind. While per capita income of the State grew at the rate of 2.8% per annum between 1980-81 and 1994-95 per capita income in the fisheries sector stagnated at around Rs.1000, during the same period. Thus the income levels in the fisheries sector have dropped relative to the rest of the States economy.

4.85 The socio-economic profile of the fishermen population in Kerala presented below gives further insight into their very backward living conditions.



Socio-Economic Status

Housing

4.86 The poor housing and habitat conditions of the fishing community bear testimony to their deplorable level of living. In spite of several housing programmes under implementation, the task of providing permanent house to all fishing families in Kerala still remains a distant dream. A recent survey by Matsyafed revealed that around 20 per cent of the fishermen houses are prone to sea erosion. The percentage of fishing families living in huts with thatched walls and roof was as high as 42 per cent. A large portion of the families did not have title deeds. Although there were two housing programmes viz., Housing and Urban Development Corporation assisted Subsidised Housing Scheme, and National Fishermen Welfare Fund assisted housing scheme which was meant exclusively in operation for the fishermen, their annual coverage has been only around 1900 houses. It is estimated that at the present pace of implementation it will take at least three decades for providing housing facilities to all the deserving fishermen population. It was in recognition of the grave situation that the Tenth Finance Commission

has extended a special grant of Rs.29.35 crores for the construction of 8385 houses in the fishing villages over a period of four years.

Drinking Water

4.87 The coastal marine villages suffer also from inadequate access to safe drinking water and poor sanitation facilities. Although public wells exist in almost all the fishing villages they are not maintained under hygienic conditions. In almost half of the villages, people use the source for taking bath as well as for washing along with drinking purposes. The open beach is still used as a toilet. A study by the Matsyafed revealed that in 93 per cent of the villages, heaches are used as toilets, in 15 per cent of the villages special public spaces (away from beach) are reserved as open toilet for women and only 5 per cent villages have any community toilets.

Health

4.88 Medical facilities exist only in two-thirds of the fishermen villages. In 44 per cent of the villages there is some form of public health activity. In as many as 27 per cent of the villages there were

reports of severe diarrhoeal disorders in 1995 and 1996. In one-third of the villages there were reports of major health problems.

Literacy

4.89 In literacy level also most of the fishing villages fall far behind the State average. The drop out rates from primary schools are very high. For the boys, the compulsion arising out of early induction into fishing and the irrelevance of the primary and secondary education to the requirement of the fishing occupation are cited as important reasons for lack of enthusiasm in schooling.

Inland Fisheries

4.90 The State is also endowed with a vast area of inland water spread, extending over 3.61 lakh ha. They include backwaters (2.43 lakh ha), reservoirs (0.30 lakh ha), tanks and ponds (0.03 lakh ha), and rivers (0.85 lakh ha). In 1996-97, 52,105 tonnes of inland fish was produced in the State. Species wise Inland fish production in Kerala from 1993-94 to 1996-97 is presented as Appendix 4.41.

4.91 The inland fisheries which is basically a subsistence activity in Kerala, has been facing a number of challenges. Unbalanced developmental activities, high level of pollution, etc. are the major problems faced by this sector.

4.92 The Coastal Zone Regulations promulgated by Government of India has put restrictions in promoting culture fisheries particularly under man made water bodies. Since Kerala is endowed with natural water bodies where inland fisheries development could be taken up in an eco-friendly manner without violating the regulations imposed, this opens a new opportunity for Kerala to take up a new line of technology. There is scope for taking up extensive systems of culture fisheries in Kerala with participatory approach which is eco-friendly and also in tune with the Coastal Zone Regulations. The Local Bodies could take up this activity as one of their major development initiatives. It is in recognition of this potential that the State has launched a massive "Peoples Fish Culture Programme" involving the Panchayats during 1997 as part of Ninth Five Year Plan.

GOVERNMENT PROGRAMMES

4.93 The Government of Kerala has been attempting to develop the fisheries sector mainly through implementing programmes in areas of increasing fish production, supporting facilities, processing and marketing and also programmes ensuring social and livelihood security for the fishermen. The major activities undertaken by the Government in the above categories are discussed below.

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NCDC Assisted Matsyafed Project

4.94 A major project for organising the supply and services to the marine sector on a co-operative basis to the traditional fishermen dependent on the sector was under implementation in Kerala. The activities were under implementation under the leadership of the Matsyafed which is an apex organisation of the primaries. There were 292 co-operatives at the beginning of Eighth Plan which was expanded to 574 to bring more fishermen under the co-operative fold. The Ist, II nd and III rd phase of the project are already covering over 27788 beneficiaries with a total investment of 58.18 crores. It was the third phase which was in operation during the Eighth Plan period. Along with the NCDC project the major activities like housing, drinkingwater, sanitation etc, were also routed through the Matsyafed. Physical and financial progress under the project are given in Appendix 4.45

Reservoir Fisheries Programme

4.95 In Kerala there are 30 reservoirs with a water spread of 29,635 ha. Culture activities on a scientific basis has been initiated only during Eighth Plan that too on a pilot scale in 5 selected projects with German assistance. The project was under implementation from 1992-93 onwards. It aims at evolving replicable models with appropriate technology and institutional mechanism for reservoir fisheries on a commercial basis with a participatory approach. The initial results in the pilot unit are encouraging. The activity has therefore been extended to 5 more reservoirs during Eighth Plan.

People's Fish Culture Programme

4.96 In 1997, the Department of Fisheries, with the active participation of the Local Bodies, initiated a programme namely "People's Fish Culture Programme to take up inland fish culture in the inland water bodies of the State, with participation of the people. Initial results show that this programme has succeeded in bringing around 3200 ha. of inland water bodies in the State under inland fish culture. It has been estimated that around 5000 tonnes of inland fish will be produced additionally in the State as part of this programme. More than 700 Grama Panchayats participated in the programme.

Kuwait Fund Assisted Prwan Culture Project

4.97 An agency namely ADAK (Agency for Development Aquaculture in Kerala) was registered on 24-5-1989 mainly with the intention of implementing the "Kerala Fisheries Development Project for Prawn Culture (KFDPPC)" with the financial assistance of Kuwait Fund for Arab Economic Development. The loan from Kuwait Fund

was seven million Kuwaiti Dinars and State Government share was 7.89 million Kuwaiti Dinar. At the present rate of exchange, the total cost works out to Rs.170.86 crores. The project was revised in 1992. As per the revised project report, the period of implementation is from 1993 to 1998.

4.98 Though the project envisages development of 1500 ha. of area for prawn culture, some physical progress could be made only during 1993-95 that too with a modest beginning with an area of 160 ha, belonging to 42 farmers. An amount of Rs.395.83 lakhs was disbursed as loan to these farmers. The experiments on culture activity at Poyya and Dharmadom also proved to be successful. Steps were also initiated for establishing hatcheries at Varkala and at Uppala. There was encouraging response from the private investors for participation in the programmes. Unfortunately the project which raised high hopes suffered a set back as a result of restrictions imposed by the Coastal Zone Regulation Act on prawn culture practices using relatively advanced technology.

4.99 Kuwait Fund has so far reimbursed an amount of Rs.620.24 lakhs. The State Government have so far (till 1997-98) budgeted an amount of Rs.5482 lakhs and released Rs.2566.23 lakhs to the Agency. The cumulative expenditure on the project is 1194.99 lakhs.

Fishing Harbours and Landing Centres

4.100 Construction of fishing harbours and landing centres both for mechanised boats and traditional crafts is an important infrastructural development activity supported under the plan with 50 per cent central assistance. Out of eight fishing harbours, ten landing centres for mechanised boats and ten for traditional crafts which were under execution from early eighties only the Neendakara fishing harbour could be completed before the Eighth Five Year Plan. In the case of Vizhinjam harbour the first stage of which was completed as early as 1962 the second and third stages remain to be completed. During Eighth Five Year Plan the budgetary support for the fishing harbours were regulated in accordance with the progress in construction so as to facilitate time-bound completion of the projects which are in advanced stages. This policy has helped in accelerating the execution of the works substantially. It is anticipated that atleast five projects namely Thangasserry, Munambam, Puthiyappa, Chombal, Moplay Bay could be completed within the first two years of Ninth Plan. During 1996 a new project was taken up for Kayamkulam harbour which is also progressing well which is scheduled for completion during 1998-99.

4.101 Landing Centres for mechanised boats at eight centres, namely Kasaragode, Neeleswaram,

Cheruvathur, Dharmadom, New Mahe, Munakkakadavu, Chettuvai and Thottappalli, were completed. Landing centres for traditional fishermen at Vellayil Beach, Vallikkunnu, Chalil Gopalapettah, Arthungal and Quilandy were also commissioned during Eighth Plan. Physical and financial targets and achievements under these projects are furnished in Appendix 4.44

Hatcheries

4.102 At the beginning of Eighth Plan there were seven fish hatcheries in Kerala. During the 8th plan period, one more was added at Neyyar Dam. The total production capacity of all these hatcheries is 250 lakh fingerlings a year. This is only one fourth of the total requirement. Besides this eight nurseries were also operating during the plan period.

Cold Storages and Ice Plants

4.103 There are 18 ice plants and cold storages under the Department. All of them were established more than a decade back. Majority of them are not fully utilized for want of timely repair and maintenance. During Eighth Plan, it was decided to hand over these plants to Matsyafed for renovation and management towards the end of the Eighth Plan period. Renovation of the cold storages are progressing at a fast pace.

Welfare Activities of the Fishermen Welfare Fund Board

4.104 The Kerala Fishermen Welfare Fund Board is the agency implementing welfare and relief schemes to the fishermen in the State. Among the various activities, old age pension, Group Insurance, financial assistance to death during or immediately after fishing, financial assistance for the funeral functions on the death of fishermen, or the relatives, assistance for the marriage of daughters of fishermen, financial assistance for the treatment of fatal diseases etc. are the important ones. The physical and financial details of the activities of the Board are furnished in Appendix 4.46.

Saving-cum-Relief Scheme

4.105 This was one of the major schemes under implementation during VIII Plan providing relief assistance to fishermen during lean period by mobilising their savings during the peak season. Total assistance of Rs.1080 per fishermen provided @ Rs.270 per month for four months is equally shared by the Central Government, State Government and the beneficiaries. The scheme which was taken up initially to support about 30,000 fishermen per annum was gradually stepped up, and by the end of Eighth Plan one lakh fishermen were been brought under the scheme.

Ninth Plan

4.106 The State's Ninth Plan envisages radical changes in the organisation of the fisheries with emphasis on resource conservation, participatory management and sharing of benefits, active involvement of the local bodies in fisheries activities and special service and support programmes for upgrading the living conditions of the fishermen population.

FORESTRY & WILDLIFE

The National Forest Policy 1998 clearly lays down the important parameters which should form the basis for forest development and management. They include maintenance of environmental stability through conservation of the natural heritage through the preservation of vast genetic resources, meeting the basic needs like fuelwood, fodder and small timber, maintenance of the intrinsic relationship between forests and the tribals and other poor people living around, and encouraging efficient utilisation of forest produce. The National Forest Policy makes specific reference to the need for conserving tropical rainmoist forests particularly in areas like Kerala and Andaman Nicobar Islands etc.

4.108 According to the records of the Forest Department, the area under forest including vested forests in 11126 Sq. km., constituting 28.63% of the geographical area. This includes not only forest areas devoted for forest plantations but also area given to sister departments and public undertakings as well as encroachments. According to INSAT imagery interpretation the actual forest cover in 1995 is only 10336 sq. km. constituting 26.5 per cent of the geographical area of the State. The effective forest area under the direct control of the Forest Department is only 9400 sq. km. (24.2% of the geographical area). Out of the total forest area of 11126 sq. km. (82.3% and vested forest 1755 sq. kms (15.77%). The table - 4.14 gives category-wise details of the forest area in the State.

Table 4.14

Categorywise Area under Forests

| Sl. No. | Type of Forest | Area (Sq. Km.) |
|--------------|------------------------|----------------|
| 1. | Tropical Wet Evergreen | 3450 |
| 2. | Moist deciduous | 4100 |
| 3. | Dry deciduous | 100 |
| 4. | Shoals | 70 |
| 5. | Grasslands | 130 |
| 6. | Plantations | 1550 |
| Total | | 9400 |

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4.109 The category-wise and divisions-wise details of forest area are furnished in Appendix-4.47.

4.110 The State has wildlife protected sanctuaries with a total area of 2250 sq. kms which works out to 24 per cent of the total forest area in Kerala and 5.79 per cent of the total geographical area of the State. The protected area in Kerala is relatively higher than the national average (4%) and the international standards of 5%. The 14 protected areas are further categorised into 5 wildlife divisions for administrative convenience.

4.111 The development activities taken up during Eighth Five Year Plan include survey of forest boundaries (2143 ha) fire protection (9354 ha), cultural operations (10968 ha, construction of roads (116 Kms) and buildings (269 Nos.), plantations (10715 ha) etc. Details of physical achievements during the plan are furnished in table 4.15.

Forest Plantations

4.112 The total area under forest plantations as on 1997 is 160036 ha. It shows an increase of 1354 ha. over the area of 158682 ha. in 1996. The increase is mainly in the area of softwood. In 1996 the total area under soft wood species was only 758 ha, which rose to 3312 ha. in 1977. In the case of bamboo plantation also the area increased of 902. ha. the total area being 2114 ha. and 1212 ha. respectively during 1996 and 1997. Among the various species teak constitutes the maximum area occupying 47.50 per cent of the total area under plantations. For Species-wise area see Appendix 4.48.

Forest Produces

4.113 Among forest produces, timber, firewood, cardamom, honey, bamboo, reeds etc. are the major items. The quantity of timber (round poles) increased from 3.6 lakh number in 1995-96 to 6.83 lakhs in 1996-97 and Reeds increase by 72.25 lakhs over the year 1995-96. Similarly bamboo also have gone up to 48.29 lakhs in 1996-97 from 13.39 lakhs in 1995-96. In the case of firewood, timber (round logs) cardamom and honey there is marginal decrease in production in 1996-97 compared to 1995-96.

Forest Revenue

4.114 Earnings from the sale of forest produce is a major source of revenue to the State Exchequer. The total revenue from the forestry sector was in the range of Rs. 32 to 48 crores per annum till the beginning of Ninth Five Year Plan. It increased to Rs. 160 crores during 1996-97. The increased was due to the increase in extraction of forest produce as well as increase in the price of timber. Product-wise earnings is furnished in Appendix 4.50.

4.115 The Forest Department in the State is the major supplier of industrial raw materials to

Table 4.15

Eighth Five Year Plan Development Activities and Achievements under Forestry

| Sl. No. | Particulars | Unit | Achievement |
|---------|-----------------------------------------|------|-------------|
| 1. | Survey of Forest Boundaries | | |
| 1. | Forest Boundary Surveyed and Demarketed | KM | 2143 |
| 2. | Cairns constructed | Nos. | 37218 |
| 3. | Kayyalas constructed | K.M. | 14.35 |
| II. | Fire Protection | | |
| 1. | Firelines made | K.M. | 9354 |
| 2. | Fire Watch Towers constructed | Nos. | 7 |
| 3. | Check Dams constructed | " | 4 |
| 4. | Permanent sheds constructed | " | 19 |
| III. | Cultural Operations | | |
| 1. | Special Tending Done | Ha. | 10968 |
| 2. | Climber Cutting | " | 23998 |
| IV. | Roads & Buildings | | |
| 1. | Improvement of Roads | K.M. | 116.08 |
| 2. | Culverts constructed | Nos. | 11 |
| 3. | Buildings Constructed | Nos. | 269 |
| V. | Plantation Activities | | |
| 1. | Fast Growing Species:- | | |
| (a) | Plantation Raised | Ha. | 4439 |
| (b) | Plantations maintained | Ha. | 10715 |
| 2. | Teak:- | | |
| (a) | Raised | " | 2971 |
| (b) | Maintained | " | 4083 |
| 3. | Soft Wood:- | | |
| (a) | Augmented/Replanted | " | 524 |
| (b) | Maintained | " | 1994 |
| 4. | Bamboo & Reeds | | |
| (a) | New area of plantation | " | 275 |
| (b) | Maintained | " | 1036 |
| 5. | Cashew:- (Maintained) | " | 366 |
| 6. | Sandal Wood:- | | |
| (a) | Natural Regeneration | " | 251 |
| (b) | Maintained | " | 365 |

Grassim Industries Limited, Hindustan Newsprint Limited and the Bamboo Corporation. The supply is based on the prefixed contract which is due for revision in 1999, and is at a price which is far below the market price. The quantity of raw materials to be supplied to these industries is 2.8 lakh tonnes of eucalyptus and acacia and 2.74 lakh tonnes of reeds. The subsidised sale of forest produce acts as a major resource constraint for sustaining plantation activity to its full capacity. Prices of raw materials need to be fixed keeping in view the increase in the general price level.

Social Forestry

4.116. With the completion of the World Bank aided Social Forestry Project which was operational during Seventh Plan, the social forestry activity has been restricted to mere maintenance of plantations raised earlier. Fire protection was provided

to 2260 ha. and 157 Kms. of forest areas covered under the Social Forestry Project. Promotion of agro forestry was also taken up on a large scale by distributing seedlings of multispecies trees. During Eighth Plan 45.46 lakh seedlings were distributed.

4.117 With the substantial devolution of the State Plan to the elected local bodies, the task of promoting social forestry including and maintaining areas already brought under social forestry could be trusted to the local bodies, with technical backing to be provided by the officials of the Department servicing the local body areas.

Compensatory afforestation programme

4.118 State Government have taken up an afforestation programme for compensating the loss of 28588 ha. forest land lost by way of encroachment with a view to afforesting double the area under

encroachment. This is an activity supported under non-plan with a commitment of Rs. 137 crores over a period of ten years commencing from 1993-94. Afforestation had been completed in 22100 ha by the end of 1996-97. During 1996-97 the coverage was 10975 ha. against the target of 16000 ha.

Participatory Approach in Resource Management

4.119 Recognising the fact that strategy so far pursued for forest management in Kerala has not been focused on people, new initiatives were made in this direction during Eighth Plan although in a limited scale. Bommiampady Eco-restoration Programme at Attappady implemented through the tribal population dependent on forest for sustenance was the first of its kind, the results of which is likely to open up initiatives in forest management.

Homestead forestry and Agro-forestry Involvement of Local Bodies

4.120 From the point of view of State's total requirements Forest Department is only a marginal producer of wood products as 90 per cent of wood and 95 per cent of firewood come from outside forests. Local bodies are conveniently suited to attend to Agro-forestry and homestead forestry, with technical support from the Department. Under decentralised planning, a small beginning has been made during 1997-98 for promoting agro-forestry activities in 100 selected panchayats along the boundaries of forest areas with people's participation.

AGRICULTURAL MARKETING

As the cropping pattern of Kerala is dominated by export oriented cash crops and industrial raw materials and their production is concentrated in the small farm sector, organised marketing support is critically important for Kerala Agriculture. In the context of new supplier countries entering the international market, the state is finding it extremely difficult to maintain its share in the world market for commodities like pepper, ginger, cardamom and cashewnut in which the state had a near monopoly in the past. Many of these are facing severe competition in the global markets. For a commodity like rubber which is an import substitute competition has become stiffer by the day with increasing liberalisation of imports. Even coconut is subject to pressure of this type. As the production is spread over millions of tiny holdings mobilising marketable surpluses, primary processing, transport etc. are all becoming difficult as well as costly. Eventhough co-operatives are operating fairly actively they are yet to gain any effective control on the market forces these commodities have to reckon with.

4.122 In the case of commodities which have recorded commendable increases in production such as rubber and coconut under protected trade regime its favourable impact on increasing the income of the farmers has been nullified due to the steep fall in their prices. Coconut price touched a low of around Rs. 2500 to 3000 per thousand during 1994-95 and 1995-96 while the prices of rubber has plummeted from Rs. 60 per Kg. in 1995-96 to Rs. 25 per Kg. in 1997. Both these crops together occupy more than 60 per cent of the net area sown and provide livelihood security for nearly two thirds of the agricultural work force.

4.123 The main agencies functioning in the co-operative sector for marketing agricultural produce, the institutional network established by them along with the major marketing and processing operations are indicated below:

The Kerala State Co-operative Marketing Federation Ltd. (MARKETFED)

4.124 The federation is operating through 117 primary agricultural marketing co-operative organised largely on a Block/Taluk basis. The commodities handled by the MARKETFED include copra, rubber, arecanut, cardamom, other spices and fertilizers. The business handled by MARKETFED during 1995-96 and 1996-97 are given in appendix-4.51. During 1996-97 the federation procured 1223 tonnes of pepper, 16 tonnes of cardamom, 45 tonnes of ginger, 5 tons of cloves and 2637 tonnes of other commodities. The quantity of the commodities handled by the federation is too small to make any influence in the market.

The Kerala State Rubber Marketing Federation (RUBBERMARK)

4.125 Together with 37 member societies, the federation is engaged in procurement and marketing of rubber. The activities of the federation include procurement and marketing of rubber, processing of crumb rubber, supply of fertilisers and other inputs and undertaking aerial spraying of rubber plantations. The federation has a network of seven sales branches in New Delhi, Bombay, Calcutta, Faridabad, Ghaziabad, Jalandhar and Ahmedabad and thirteen purchase depots at Thiruvananthapuram, Vithura, Puthuppady, Arakkunnam, Nilmabur, Iritty, Poovathilappu, Karuvarakundu, Yendayar, Sullia, Kappumthala, Pampady and Punalur. The RUBBERMARK procured 7 percent of total rubber produced in Keala during 1996-97. The procurement of rubber by RUBBERMARK during 1991-92 was 42,756 tonnes. During 1995-96 it was 35089 tonnes and during 1996-97 it was 37079 tonnes.

4.126 The federation has acquired a nich in the market with all the major tyre and non tyre

companies in its fold. Out of the total supplies, 55 per cent goes to the tyre sector. The federation has been successful in exporting sheet and processed rubber to overseas buyers. Although, there were attempts for increased procurement and quality improvement it does not appear to have helped in salvaging the rubber economy from its steep fall in prices during 1996 and 1997.

Central Arecanut and Cocoa Marketing and Processing Co-operative Ltd (CAMPCO)

4.127 CAMPCO is a joint venture of Kerala and Karnataka State Governments. It was setup with a view principally to intence in the arecanut market so as to stabilise its prices. Karnataka State accounts almost two thirds of the total areca production. The Head Office of the organisation is at Mangalore in Karnataka State. CAMPCO is mainly engaged in procurement and sales of cocoa and arecanut. It has also one Chocolate Factory and a factory for production of Copper sulphate. Operations of CAMPCO during 1995-96 and 1996-97 are given in appendix-4.52 CAMPCO is manufacturing chocolate for M/s. Nestle India Ltd. The quantity of cocoa procured by the co-operative during 1996-97 is around 15900 tonnes of wet beans.

The Regional Agro Industrial Co-operative of Kerala Ltd. (RAIDCO)

4.128 RAIDCO is a co-operative Organisation engaged in the production and distribution of agricultural implements. Raidco has entered in the marketing of transplanters and combine harvesters. With the assistance from NCDC Raidco has established one pumpset manufacturing unit two agro service centres and three mobile workshops.

The Kerala Kera Karshaka Co-operative Federation (KERAFED)

4.129 KERAFED is the agency created for the integrated development of coconut through procurement processing and marketing of coconut and its products. Primary agricultural credit societies (898 in number) are the members of this federation.

4.130 Consequent to the fall in prices of coconut in 1994-95 the State Government have launched an Integrated Coconut Development Project at a block cost of Rs. 104.78 crores. KERAFED is implementing this project with EEC assistance. The investment so far made is Rs. 66 crores. The project period as originally scheduled was over by March 1993 and interim extension granted by EEC also expired by March 1995. Copra Milling Plant at Karunagappilly with a capacity of 200 tonnes copra per day was already commissioned. The procurement of copra by KERAFED during 1996-97 was only 8379

tonnes which is only 14 per cent of the capacity created. Performance details of copra procurement, processing and marketing for 1995-96 and 1996-97 are given in appendix-4.53

The Indian Coffee Marketing Co-operative Ltd. (COMARK)

4.131 COMARK was registered as a Multi State Co-operative Society in November 1992 to undertake the marketing of coffee on behalf of the coffee growers in Karnataka, Kerala and Tamil Nadu. With the introduction of Internal Sale Quota (ISQ) in 1992 and Free Sale Quotas (FSQ) in 1993-94 season. COMARK started its marketing activities by procuring coffee from the growers and supplying it to domestic users and exporters. COMARK has its registered Head Office at Hassan and branches at Hassan and Mysore in Karnataka, Kalpetta in Kerala and Bodinayakannur in Tamil Nadu. Procurement of coffee by COMARK has increased from 1281 tonnes in 1991-92 to 7595 tonnes in 1996-97. However the quantity procured during 1996-97 is lower than the procurement of 10100 tonnes during 1995-96.

4.132 A honey processing unit was setup by the Kerala State SC/ST Cooperative Federation and it was commissioned in July 1997. In Idukki District a tea factory with a block cost of Rs. 210 lakhs, a milk pastuerisation plant with a block of Rs. 60 lakhs and a cattle feed factory with a block cost of Rs. 40 lakhs are being implemented under ICDP with NCDC assistance.

4.133 Co-operative Societies in Alappuzha, Thrissur and Palakkad Districts procured 13675 tonnes of paddy during 1997 under the scheme supported by the Department of Agriculture.

Agricultural Market Development Project

4.134 The Project with EEC assistance was started in 1991 with an estimated Project Cost of Rs. 44 crores. EEC assistance for this project was Rs. 31 crores. The revised cost of the Project is Rs. 72 crores. The expenditure so far incurred is Rs. 53 crores. The aim of the project is to establish 3 urban 3 rural wholesale markets for agricultural commodities. The proposed urban markets are at (1) Anayara in Thiruvananthapuram District (2) Maradu in Emakulam District and (3) Vengeri in Kozhikode District. The proposed rural markets are at (1) Nedumangad in Thiruvananthapuram District (2) Moovattupuzha in Ernakulam District and (3) Sulthan Batheri in Wayanad District. The construction works at Nedumangad has been completed and works in other markets are nearing completion. The markets are expected to be operational in 1998.

Neethi Stores

4.135 Government of Kerala have launched a new scheme for setting up of Consumer outlets named Neethi Stores attached to co-operatives. Neethi Stores are intended for the distribution of quality consumer goods at reasonable prices. The reduction in price will be achieved by purchasing consumer goods in bulk and passing the benefit to the consumers.

Kerala State Warehousing Corporation

4.136 The Kerala State Warehousing Corporation has 64 warehouses with a total storage capacity of 1.90 lakh tonnes. Out of this 1.50 lakh tonnes is housed in Corporation's own godowns. The Corporation has diversified its activities such as clearing, fumigation service, transportations, procurement of agricultural produces, disinfection extension services, construction of buildings for other institutions, courier service and manufacture and marketing of motorised coir ratts.

AGRICULTURAL CREDIT

4.137 The organised sector which supports the largest share of Agricultural Credit need in Kerala comprises of Co-operative Banks, Regional Rural Banks and Commercial Banks. The credit operation of the sector includes finance from the funds raised by the banks as well as those financed by National Bank for Agriculture and Rural Development (NABARD).

National Bank for Agriculture and Rural Development (NABARD)

4.138 NABARD provide financial support for both co-operatives and commercial banks. The refinance assistance from NABARD has steadily increased from Rs. 85 crores in 1991-92 to Rs. 184 crores in 1996-97 in Kerala. The Kerala State Cooperative Agricultural and Rural Development Bank Ltd. has absorbed the largest share of refinance (72 per cent) followed by Regional Rural Banks (15 per cent) Kerala State Cooperative Bank Ltd. (8 per cent) and commercial banks (5 per cent). During 1996-97 the share of KSCARD Bank Ltd. increased by 9.9 per cent where as that of Commercial Banks decreased by 13.6 per cent Kerala State Cooperative Bank Ltd. decreased by 1.3 per cent and that of Regional Rural Banks increased by 5 percent. Purpose-wise disbursement from 1991-92 to 1996-97 are given in appendix 4.55. The disbursement to farm front account for 60.7 per cent of the total for 1996-97 which compares favourably with the level in 1995-96 (59.2 percent)

4.139 The proportion of credit support to farm sector recorded a negative trend during the first

three years of the plan and it is still persisting. The share of refinance to the farm sector has come down from 82 per cent in 1991-92 to 60 per cent in 1995-96 and 1996-97. A further analysis of refinance disbursement shows that the major share was absorbed by Plantation and Horticulture (22.9%) followed by Minor Irrigation (14.2%). The share of Plantation and Horticulture is steadily increasing from 1994-95.

4.140 NABARD has prepared the Potential Linked Credit Plan (PLP), coterminous with the Ninth Five Year Plan, based on critical factors such as human and natural resources, infrastructure, marketing opportunities, availability of raw materials etc. An assessment has been attempted at district-wise rural credit requirement. An overview of potential linked credit plan for 1998-99 for Districts in Kerala shows that the additional credit requirement is the highest in Ernakulam District (Rs. 20189 lakhs) and the lowest in Palakkad (Rs. 1279 lakhs). In the case of primary sector the additional credit requirement is the highest in Ernakulam (Rs. 7437 lakhs) and the lowest in Alappuzha (Rs. 611 lakhs). The Board sector-wise credit projections for priority sectors for 1998-99, credit projections, estimated credit flow and credit gap are given in appendices-4.56 and 4.57. Districtwise credit gap in priority sectors as per potential linked credit plan for districts is given in appendix-4.58. Credit gap: Additional credit requirement (in excess of credit available).

Commercial Banks

4.141 During the year 1996-97, the loan disbursement by commercial banks to the priority sector as per the District Credit Plan was to the tune of nearly Rs.3063 crores against Rs. 2295 crores during 1995-96. In terms of percentage growth it works out to 33.5 per cent. The Agriculture and allied sectors accounted for major share of Rs. 1281 crores (42%) followed by tertiary sector Rs. 936 crores (31 per cent). The share of SSI sector was Rs. 846 crores accounting for 27 percent. Overall, however, priority sectors advances by the commercial banks should have been much larger if the RBI norms for priority sector lending had been fixed in terms of bank deposits rather than bank credit. Because bank credit in Kerala has declined sharply since 1990-91, priority sectors as a proportion of bank deposits has also declined correspondingly, although on surface banks, as a whole, are supposed have fulfilled (or even exceeded) the norms. Sectorwise dispensation of credit by commercial banks as per the District Credit Plan during 1995-96 and 1996-97 are given in appendix-4.59

Kerala State Co-operative Bank Ltd.

4.142 The Kerala State Cooperative Bank Ltd. with 14 District Cooperative Banks and 1583

Primary Agricultural Credit Societies cater to the short term and medium term cooperative credit requirement. Being the apex bank the Kerala State Cooperative Bank Ltd. coordinates the working of District Cooperative Banks and the primaries in their lending programmes as also in the mobilisation of deposits. A comparative statement of the working of the bank for the last two years is given in appendix-4.60 (i.e 1995-96 and 1996-97)

4.143 The loan outstanding during 1996-97 was to the tune of 522 crores against 536 crores in 1995-96. During 1996-97 an amount of Rupees two crores was disbursed to the District Cooperative Banks for IRDP. The Disbursement of loan during 1996-97 Rs. 576 crores against Rs. 549 crores in 1995-96 showing an increase of nearly five per cent. The disbursement for agricultural purposes for 1996-97 was Rs. 104 crores which is 18 per cent of the total disbursement compared to Rs. 75 crores in the previous year which works out to nearly 14 per cent. The purpose wise disbursement of loan (for 1995-96 and 1996-97) are given in appendix-4.61

The Primary Agricultural Credit Societies

4.144 The primary agricultural credit societies are institutions at grass root level for dispensation of short term credit to agriculturists. As on 30.06.1996 there are 1591 primary agricultural credit societies with a membership of 115 lakhs and resource base of (share capital, reserves deposits and working capital) Rs. 6469 crores. Data on the performance of these societies are available only as on 30.06.1996. The performance of the agricultural credit societies as on 30.06.1996 with reference to selected indicators was encouraging. The average deposit per society increased from Rs. 100 lakhs to Rs. 169 lakhs. Average deposit per member Rs. 1422/- to Rs. 2343/- per centage of borrowing member was stable at 27. The total loan disbursed through the primary agricultural credit societies was Rs. 1504 crores compared to Rs. 1469 crores registering a growth of 2.3 per cent. The credit for agricultural purpose decreased from Rs. 535 crores to 514 crores. Non farm sector is still dominating. Since primary agricultural credit societies are basically meant for serving the farm front, their present trend of moving away from agriculture is not justified.

4.145 The progress shown by the co-operatives in their functioning was due to the successful deposit mobilisation drive launched by the Government. The target for deposit mobilisation for 1997 was Rs. 200 crores and the achievement was Rs. 592 crores (See appendix-4.62). The data on working of primary societies reveals that as on 30.06.1996, out of 1591 societies 703 are on profit, 844 on loss 44 without loss or profit, 52 societies are dormant. 1562 societies have paid secretaries, 1457

societies have own godowns and 1502 societies are viable. The selected indicators of credit operations and performance of the primary agricultural credit societies are given in appendices-4.63 and 4.64.

Introduction of self helps Groups

4.146 An attempt to institutionalise the self help group concept under PACSs was introduced in 1997 in Kannur District as a Pilot Project. The first phase of the programme is intended to cover 250 self help groups which are voluntary organisations of people operating within the frame work of rules and regulations for common economic and social objectives, under 40 PACSs in the district. The PACSs will treat the groups as one unit and assistance will be provided to the group. There are 50 such groups under 10 PACSs have already started operation. Financial assistance to the tune of Rs. six lakhs was already provided to these societies.

Kerala State Co-operative Agricultural & Rural Development Bank Ltd (KSCARDB)

Long Term Credit

4.147 The long term rural credit is mainly serviced by the KSCARDB at the apex level and 44 Primary Agricultural Development Banks at taluk level as members. The various activities covered by the Banks lending include minor irrigation, farm mechanisation, land development including soil conservation, cultivation of horticultural and plantation crops like coconut, rubber, cashewnut, coffee, pepper, cardamom etc. The Bank also advances non farm lending consisting of composite loans, small road transport operations schemes, integrated loan schemes with 100% assistance from NABARD. During 1996-97 the Bank had disbursed a sum of a little over Rs. 207 crores against Rs. 154 crores during 1994-95. The advances include Rs. 8 crores under ordinary lending, Rs. 81 crores under schematic lending, Rs. 62 crores under Non Farm Sector and Rs. 47 crores under Rural Housing. The details of ordinary and Scheme Loans advanced and Loans Advanced and Debentures floated by KSCARD Bank Ltd. are given in appendices 4.65 and 4.66.

Other Co-operatives

4.148 The details of classification of societies, membership, resource position of co-operatives under the control of the Registrar of Co-operative Societies are given in appendix 4.67.

National Co-operative Development Corporation (NCDC)

4.149 NCDC is the national agency providing finance for the development of cooperative movement.

The finance from NCDC is mainly for funding long term projects covering production, processing, storage and marketing of consumer goods in rural area. The flow of credit from NCDC for activities in Kerala during 1996-97 is 30 crores compared to 24 crores in 1995-96. The fund flow from NCDC and purpose wise release are shown in appendices 4.68 and 4.69.

4.150 With financial assistance from NCDC, 2100 godowns, (1966 rural godowns and 134 marketing godowns) with a total capacity of three lakh tonnes were constructed by the primary service co-operative banks and marketing societies and 162 godowns are under construction. The Intensive Co-operative Development Scheme aiming at strengthening the co-operative basis with the support of NCDC is also under implementation in the districts of Palakkad, Wayanad, Kottayam, Pathanamthitta, Idukki and Thrissur. The major investments supported by NCDC in Kerala during 1996-97 include seven spices powdering units, establishment of a whole sale consumer store in Ernakulam, 125 mechanised coir spinning units and 46 defibering units.

IRRIGATION

In a State like Kerala, where the availability of land for agriculture is very limited, irrigation support assumes special significance for increasing the cropping intensity and enhancing agricultural production. While Kerala accounts for 1.1 per cent of the land area it has about 4.8 per cent of the water resources of the country. The State has abundant water bodies spread all over the State catering to the various needs of the people. Water requirement for the State is estimated to be around 3000 crore cubic meter for agriculture, 750 crore cubic meter for domestic use and 1220 crore cubic meter for preventing salt water intrusion. The total water requirement would thus work out to 4970 crore cubic meter where as the availability of surface water is around 4200 crore cubic meter. The water available through rains is estimated to be around 7200 crore cubic meters where as the quantum that could be made use of is estimated to be around 4000 crore cubic meters. Actual utilisation however is only about 25 per cent of the potential. The ground water resources available in Kerala are estimated at 1180 crore cubic meters out of which the tapable resource is of the order of 590 crore cubic meters.

Review of Major Systems

4.152 Irrigation development in Kerala is almost entirely centered around developing surface water resources and the lion's share of investment is on major and medium projects, with cultivation of paddy as their principal focus. The alignment of the canal systems for delivery of water was through the low lying contours of the mid land regions just above

the valley portions where rice crop was predominating. With the advent of five year plans a number of projects were taken up. The Plan-wise investment in Irrigation sector is given in Appendix 4.70. From the Appendix it could be seen that despite substantial increase in the plan outlay for the Irrigation sector, there was no commensurate benefit by way of additional irrigation facilities. Due to escalation in cost and delayed completion of projects, the cost of the projects has gone up considerably without any proportionate increase in irrigation potential. The backlog in the execution of major irrigation projects is so heavy that the State is finding it difficult to carry on with even the projects which are in advanced stages of completion. The cumulative investment so far made on Irrigation works adds up to Rs. 2090 crores. Out of this, the investment on major and medium irrigation is Rs.1459 crores (70 per cent).

4.153 As per the assessment by the Irrigation Department the area so far benefitted is 4.19 lakh ha (net) and 6.76 lakh ha (gross). This does not tally with the estimates of the Directorate of Economics and Statistics according to which the net area irrigated was 3.43 lakh ha and gross irrigated area 4.65 lakh ha as on 1995-96.

Major and Medium Irrigation

4.154 At the beginning of the Eighth Plan there were ten completed projects and nineteen ongoing projects which include one project started in the Second Plan, six projects in the Third Plan, one project in the Fourth Plan, five projects in Fifth Plan and six projects in the Sixth Plan. The inordinate delay in the execution of these projects has resulted in considerable escalation in costs. The total investment originally estimated for the 19 ongoing projects at the beginning of the Eighth Five Year Plan was Rs. 198 crores with an ayacut of 3.43 lakh ha (net). The average cost worked out to Rs. 5770 per ha at that time. But as per the latest estimate the anticipated investment for these projects is of the order of Rs. 2724 crores and the average cost would work out to Rs. 81093 per ha. The viability of the projects have considerably eroded consequent to the enormous escalation in cost and considerable reduction in the area likely to be irrigated.

4.155 The strategy adopted during the Eighth Plan on major irrigation system was to complete and commission the projects which were taken up in the earlier plan periods. Accordingly, eight projects were targetted for completion and higher outlays were also provided for those projects for their time bound completion. Still all those projects were not completed even within the revised time schedule. With special efforts four projects namely Pamba, Periyar valley, Chitturpuzha and Kuttiyady were commissioned during the Eighth Plan period.

Eventhough the physical progress in terms of additional ayacut is nominal, much progress was reported in the execution of major projects like Kallada and Muvattupuzha. In the case of Kallada project all the major works like the construction of the Dam at Parappan, weir at Ottakkal, the right bank main canal of 69.70 km, left bank main canal of 56.02 km, branch canals, distributories, minor conveyance system works etc are fully completed and the remaining works are progressing. As regards Muvattupuzha Project, the head works, right bank main canal of 14.50 km, L.B main canal of 26.36 km, branch canals to a length of 11.24 km and 4.62 km of distributories are completed and other works are progressing. However, no ayacut is achieved till date. Eventhough an amount of Rs.5123 lakhs has been expended on Idamalayar Project the progress of work is not encouraging. Only 7.70 km length of main canal and 1.48 km length of branch canal have been completed and the remaining works are in progress.

4.156 In the case of projects where the construction part has not been taken up yet, preliminary investigations were done in late seventies and early eighties, it is to be noted that the crop situation in the prospective commands of all these

projects has undergone drastic changes as part of the large shift in cropping pattern taking place all over Kerala from food crops to commercial crops. In most of the commands the wet land ecosystem might have already given way to garden land agriculture and as such the original project assumptions are no more relevant. The new cropping system with less water demanding crops replacing the water loving crops like rice, would enable the existing irrigation net work to support more areas with the same quantity of water. The design of the dam, the layout of the distribution system and the mangement of water would definitely require a new orientation and a fresh appraisal.

Eighth Plan Performance

4.157 During the Eighth Plan period an amount of Rs. 581.62 crores has been spent for bringing an additional area of 33,626 ha. under irrigation. This is against the target of 1,48,000 ha during the plan period, the achievement being just 23 percent. During 1996-97, nominal ayacut achievement was reported only in Kallada project. The cumulative area brought under major irrigation as on 3/97 was 2.16 lakh ha (net) and 4.35 lakh ha (gross). The project wise details are given in Table 4.16.

Table 4.16
Project-wise Details of the Ongoing Projects

| Sl. No. | Name of project | Year of starting | Original estimate | Revised estimate | Year of revision | Cost estimation | Expenditure up to 3/97 | Expected area to be irrigated | | Physical achievement | | Cost per ha (gross) |
|---------|--------------------------|------------------|-------------------|------------------|------------------|-----------------|------------------------|-------------------------------|--------|----------------------|-------|---------------------|
| | | | | | | | | Net | Gross | Net | Gross | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1. | Kallada | 1961 | 1328 | 45780 | 1990 | 3347 | 51562 | 61630 | 92800 | 29357 | 44035 | 1.71 |
| 2. | Chimmoni-Mupli | 1975 | 633 | 3615 | 1990 | 471 | 5527 | 13000 | 26000 | 11000 | 22000 | 0.25 |
| 3. | Kanhirapuzha | 1961 | 365 | 8200 | 1992 | 2146 | 7798 | 9710 | 21850 | 7270 | 16340 | 0.48 |
| 4. | Pazhassi | 1962 | 442 | 10000 | 1992 | 2162 | 10552 | 8130 | 16250 | 6348 | 12696 | 0.83 |
| 5. | Muvattupuzha | 1974 | 2086 | 38800 | 1992 | 1760 | 17338 | 17370 | 34740 | - | - | - |
| 6. | Vamanapuram | 1981 | 1982 | 15230 | 1992 | 638 | 1011 | 8800 | 18010 | - | - | - |
| 7. | Idamalayar | 1981 | 1785 | 10700 | 1992 | 499 | 5123 | 14060 | 43190 | - | - | - |
| 8. | Kuriyarkutty Karappara | 1978 | 1036 | 10000 | 1992 | 865 | 750 | 11740 | 23190 | - | - | - |
| 9. | Chaliyar (Beypore Puzha) | 1981 | 1061 | 64500 | 1992 | 5979 | 521 | 73240 | 108040 | - | - | - |
| 10. | Kakkadavu | 1979 | 1335 | 9885 | 1990 | 640 | 240 | 13940 | 41760 | - | - | - |
| 11. | Attappady | 1975 | 476 | 8367 | 1992 | 1658 | 898 | 4500 | 8380 | - | - | - |
| 12. | Karapuzha | 1975 | 760 | 12500 | 1992 | 1545 | 12342 | 4650 | 9300 | - | - | - |
| 13. | Meenachil | 1980 | 3500 | 8950 | 1992 | 156 | 458 | 9960 | 14510 | - | - | - |
| 14. | Banasuramangr | 1979 | 800 | 2826 | 1992 | 253 | 450 | 2800 | 4800 | - | - | - |
| 15. | Channavattom | 1985 | 870 | 2800 | 1990 | 52 | 253 | 6700 | 8660 | - | - | - |

Projects Assisted Under Rural Infrastructural Development Fund (RIDF)

4.158 Strengthening of irrigation infrastructure is one of the main objectives in irrigation supply management. During the 4th year of the Eighth plan, the Central Government has formed a special

fund namely the Rural Infrastructural Development Fund (RIDF) channelised through National Bank for Agricultural and Rural Development (NABARD) for providing assistance to State Governments for the speedy completion of the ongoing projects which are in the advanced stages of execution. Accordingly 5 projects namely Chimmoni, Karapuzha,

Kanakkankadavu, were selected under RIDF-I and Pazhassi and Kanhirapuzha under RIDF-II with a loan amount of Rs. 93.14 crores. Project wise details as approved by NABARD are given in Table 4.17.

Table 4.17
Details of Projects Assisted under RIDF

| Sl. No. | Name of Project | Requirement as per latest estimate for completion | NABARD's share | Govt. share | (Rs. Crores) | |
|---------|-----------------|---------------------------------------------------|----------------|-------------|--------------------------------------------------|-----------------------------|
| | | | | | Amount actually budgetted including 97-98 outlay | Approved date of completion |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Chimmoni | 10.736 | 6.00 | 4.736 | 9.71 | 1996-97 |
| 2. | Karapuzha | 79.27 | 50.00 | 29.27 | 79.89 | 1996-97 |
| 3. | Kanakkankadavu | 7.720 | 4.275 | 3.445 | 8.95 | 1996-97 |
| 4. | Pazhassi | 28.498 | 25.66 | 2.838 | 24.00 | 1997-98 |
| 5. | Kanhirapuzha | 14.555 | 7.205 | 7.350 | 10.00 | 1997-98 |

4.159 Time bound implementation and completion of the projects was the basic objective of this special project fund. However as in the case of other projects, the time schedule could not be strictly adhered to in the implementation of these projects also. Besides medium projects, 92 M.I. Projects were sanctioned under RIDF-I and 129 M.I projects under RIDF-II with a loan amount of Rs. 23.80 crores. Among the 92 minor irrigation works sanctioned under RIDF-I seven works alone remain to be completed and the execution of the other 129 schemes is progressing.

Minor Irrigation

Surface Water

4.160 Although minor irrigation systems are more appropriate for Kerala's situation they did not receive priority in the earlier plans. Only from the Seventh Plan onwards were they given some attention.

4.161 The minor irrigation schemes implemented in Kerala are M.I. class-I&II, lift irrigation, Jaladhara and Janakeeya Jalasechana Padhathy. Under class-I, the type of works taken up are construction of check dams, diversion schemes, cross bars, drainage schemes, construction and renovation of tanks etc.

4.162 Under the decentralised planning set up, class-II M.I. schemes benefiting area up to 15 hectares have been transferred to the local bodies. All other schemes benefiting larger area and warranting technical support are to be executed by the Irrigation Department.

4.163 During 1996-97, the performance of the minor irrigation sector was not encouraging. The

total area brought under irrigation during the period was 4898 ha.(net) and 6764 ha (gross) against 10970 ha.(net) and 13373 ha.(gross) during 95-96. During the Eighth Plan period an area of 52869 hectare (net) and 72646 ha.(gross) land were benefitted by implementing minor irrigation schemes both under surface and ground water. The cumulative area under minor irrigation upto March'97 is 2.03 lakh ha. (net) and 2.41 lakh ha(gross). The physical and financial achievements of the M.I. sector during the Eighth Plan period is given in Appendix.4.71

Ground Water

4.164 Ground water development in Kerala has gathered momentum from the early years of 1980. Still the physical coverage and accessibility to people are limited. According to a rough estimate only 15% of the ground water resource potential has been tapped. Eventhough there is a large reservoir of untapped potential, the ground water utilisation remains sub optimal mainly because of the paucity of technical manpower and infrastructural facilities.

4.165 The departmental programmes are designed to cover all important aspects of exploration, resource estimation, development conservation and management of ground water in the State. During 1996-97 a detailed hydrological survey was conducted in 166 Km², technical guidance was provided for siting 429 open wells, constructed 409 drilled wells, and created an irrigation potential of 1161ha. Compared to last year the performance of the investigation wing was not satisfactory. Eventhough hydrological survey was conducted in 166 Km² against 75 Km² last year, the department has failed to achieve the target they set in providing technical guidance for siting of wells, construction of wells and creation of irrigation potential. Failed well compensation was given to 3 beneficiaries. Under Special Component Plan 98 bore wells were constructed to provide drinking water facilities to scheduled caste families and 19 bore wells were constructed to provide drinking water facilities to scheduled tribe families. Under the decentralised planning, two schemes "Janakeeya Jalasechana Padhathy and "scheme for providing drinking water facilities in specified areas" which were operated by the Department are transferred to the district panchayats. Infrastructural support was provided by the Department for the implementation of the schemes by the local bodies with beneficiary participation. During 1996-97, infrastructural support was given for constructing 17 bore wells under Janakeeya Jalasechana Padhathy and 30 bore wells under drinking water scheme. During the Eighth Plan period, an amount of Rs. 2875 lakhs has been expended for the development of groundwater resources in our State. The physical achievement of the schemes during the Eighth Plan period is given in Appendix 4.72.

Coverage and Pattern of Irrigation

4.166 Data on source-wise irrigation in Kerala is given in Table 4.18. The net area under irrigation at the beginning of the Eighth Five Year Plan was 3.33 lakh ha, which works out to a meagre 15 per cent of the net area sown. It has increased to 3.43 lakh ha, a very marginal addition of only 10,000 ha, over a period of next 4 years without making any impact on area irrigated. In the case of gross irrigated area which is a symbol of efficiency in water management, the record of performance was better with the area irrigated increasing from 3.87 lakh ha to 4.65 lakh ha. (20 per cent). Consequently the proportion of gross irrigated area to gross cropped area has increased from 12.8 to 15.18. As far as the major sources of irrigation is concerned, private wells, natural ponds, private irrigation systems etc predominate the irrigation front with the public irrigation support (area serviced by Government canals) accounting for a low proportion of 30 per cent.

4.167 Among the crops, paddy continued to be the major crop benefitted from the irrigation facility although there is an emerging trend for bringing more of non food crops under irrigation. During 91-92, 59 per cent the gross irrigated area was accounted for by paddy but the share has declined to 50.35 per cent in 1995-96. The major shift noted is from paddy to commercial crops particularly coconut, arecanut and vegetables. The gross area irrigated under non-food crops has increased from 128946 ha in 1991-92 to 182588 ha in 1995-96. On the other hand the share of food crops has shown a fluctuating trend. Despite drastic reduction in the area under paddy from 5.41 lakh ha in 1991-92 to 4.71 lakh ha in 1995-96 the area under irrigated paddy remained more or less stagnant which shows that the shift in area from rice cultivation is more in the unirrigated tract.

Table 4.18

| Net Area Irrigated (Source-wise) | | (Area in ha) | | | | |
|----------------------------------|----------------------------------------------------|--------------|---------|---------|---------|---------|
| SLNo. | Source | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 |
| 1. | Government canals | 102748 | 102942 | 102880 | 108633 | 103136 |
| 2. | Private canals | 3585 | 3745 | 3743 | 3464 | 3681 |
| 3. | Tanks | 48143 | 48294 | 48474 | 53364 | 49213 |
| 4. | Wells | 64647 | 65772 | 66221 | 75871 | 73137 |
| 5. | Other sources | 114034 | 113704 | 102280 | 116626 | 113026 |
| 6. | Total | 333157 | 334457 | 323598 | 357958 | 342193 |
| 7. | Area irrigated more than once in a year | 53618 | 41911 | 89273 | 147532 | 123311 |
| 8. | Gross irrigated area | 386775 | 376368 | 412871 | 505490 | 465504 |
| 9. | Net area irrigated to net area sown (%) | 14.82 | 14.87 | 14.38 | 15.98 | 15.11 |
| 10. | Gross irrigated area to gross cropped area (%) | 12.80 | 12.35 | 13.71 | 16.58 | 15.18 |
| 11. | Irrigated area under paddy to total irrigated area | 59 | 56 | 51 | 54 | 49 |

Performance of the Externally aided Projects

4.168 During the Eighth Plan period, there were 4 projects under implementation with external assistance. They include World Bank assisted National Water Management Project, National Hydrology Project, European Economic Community assisted Kerala Minor Irrigation Project and Dutch assisted Kerala Community Irrigation Project. The National Water Management Project was started in 1991-92 and implemented in 6 projects namely, Malampuzha, Mangalam, Pothundy, Peechi, Vazhani and Neyyar. The objective of the project was to increase the efficiency of the projects through modernisation. The activities identified under modernisation were resectioning of the canals, selective lining and repairs and sizing of the outlets according to the requirement.

4.169 National Hydrology Project is a World Bank assisted project implemented jointly by the Irrigation and Ground Water Departments to create a

Table 4.19

Gross Area Irrigated (Crop-wise)

| | | (Area in ha) | | | | |
|-------|-----------------------------|--------------|---------|---------|---------|---------|
| SLNo. | Crops | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Paddy | 228736 | 212576 | 209735 | 272772 | 234409 |
| 2. | Tubers | 769 | 822 | 801 | 859 | 954 |
| 3. | Vegetables | 5795 | 6059 | 5013 | 5676 | 7428 |
| 4. | Coconut | 103763 | 105698 | 146682 | 172486 | 164518 |
| 5. | Arecanut | 20887 | 22395 | 22621 | 22709 | 25544 |
| 6. | Nutmeg/ clove | 890 | 953 | 1074 | 1352 | 1459 |
| 7. | Other Spices and condiments | 1394 | 1873 | 1966 | 2110 | 2942 |
| 8. | Banana | 10127 | 11005 | 8853 | 10331 | 10737 |
| 9. | Betelvine | 832 | 732 | 743 | 840 | 931 |
| 10. | Sugarcane | 2147 | 2112 | 2289 | 2260 | 3844 |
| 11. | Others | 12067 | 12342 | 13099 | 14105 | 12738 |
| Total | | 386775 | 376368 | 412871 | 505490 | 465504 |

database covering all aspects of the surface and ground water hydrology. Preliminary works on this project were over and the implementation is progressing.

4.170 The European Economic Community assisted Kerala Minor Irrigation Project implemented during the Eighth Plan period was to provide irrigation support to 17500 ha of land through 312 tank schemes, 148 lift irrigation works and 115 Cross bars, giving emphasis on irrigating paddy, coconut, vegetables etc. During the initial two years, the implementation was tardy. Physical achievement reported upto 3/97 is only 40 schemes (14 tank & 26 lift) completed and 22 schemes in progress. The project is executed through beneficiary farmers.

4.171 The Dutch assisted Community Irrigation Project is implemented in Thrissur District for development and supply of ground water through bore wells for providing irrigation support to garden land agriculture. The implementation of the project is through an autonomous agency namely Kerala Samuhya Jala Sechana Samithy. During the project period it is expected to construct 115 borewells.

4.172 During the Eighth Plan period the physical progress under all the projects were lagging. Details of the externally aided projects are given in Appendix 4.73.

Flood Management

4.173 Systematic attempts have not been made in the past for assessing the flood occurrences and vulnerability of different regions. Flood proofing can be done by identifying other root causes of flood, its intensity etc. Basin-wise studies are necessary for evolving strategies for flood management. The activities carried out by the Department for flood protection are embankment construction, groynes, construction of retaining walls etc. At the beginning of the Eighth plan, the cumulative area brought under flood control was reported to be 37192 ha. A number of works have been executed for the control of flood damages. During the year under report an area of 3000 ha of land was protected from flood expending an amount of Rs.1436 lakhs. The achievement during the Eighth plan period works out to 11580 ha.

4.174 The urban areas in Thiruvananthapuram, Kochi and Kozhikode are affected by periodical flooding. The nature of flood is of flash flood type creating economic loss to the community. In Thiruvananthapuram, 91 works were arranged for the control of flood and 79 works were completed till 3/97.

4.175 Under the new decentralised set up, the local works relating to flood control are to be identified with the help of the concerned local bodies. The Department provides technical support to the local bodies in the execution of flood control works.

Coastal Zone Management

4.176 Coastal erosion is a major problem faced by the State. Erosion occurs along the coast either as a long term shore line retreat or a short term cyclic shore-line oscillation with alternating erosion and accretion. Out of the coastal length of 520 kms, about 470 kms are vulnerable to erosion. A recent study conducted by CESS has shown that 150 km are undergoing severe erosion and about 110 Km are consistently accreting.

4.177 Seawalls are the major protection measures adopted along the coast. Groynes and groyne-sea wall combinations were tried along certain parts of the during the early years of coastal protection. Failure of seawalls have been reported from certain coastal stretches. According to the new Coastal Zone Regulation introduced by the Central Govt. a multi pronged approach integrating engineering, ecorestoration, regulatory and management measures will have to be followed in the coastal zone management. In the new Panchayat Raj set up, the local bodies concerned may also be involved in identifying the vulnerable area of sea erosion and for taking up the appropriate measures for the coastal zone management under the technical guidance of the Irrigation Department.

4.178 Traditional methods of construction of seawalls were adopted in 1996-97 also for coastal zone management. During the period about 8 kms of new sea walls were constructed and reformation works to a length of 6 kms, expending a sum of Rs. 1739 lakhs. During the Eighth plan period, 30.90 kms of coast were protected by constructing new sea walls and reformation works were carried out in 27.97 kms of area at the cost of Rs. 9077.00 lakhs. Till March 97, 355 kms. of coast were protected by constructing new sea wall and reformation works were done in 73.52 kms. The financial and physical achievement of flood control and anti sea erosion programmes during the Eighth plan period are given in Table 4.20.

Command Area Development

4.179 In the beginning, the 10 projects (first generation namely Malampuzha, Walayar, Gayathry Mangalam, Pothundy, Peechi, Vazhani, Chalakkudy, Neyyar, Cheerakuzhy were included under CADA and in the later stage, 4 more projects were also included. Now the CADA activities are carried out in the 14 projects with a cultivable area of 180000 ha. Several activities including construction of field channels, Warabandhi, land levelling, shaping, improvement in the drainage system, conjunctive use of surface and ground water are being initiated under the programme.

4.180 During 1996-97, field channels were constructed to benefit an area of 14402 ha, Warabandhi system was introduced in an area of 372 ha, 8795 number of demonstrations were conducted, 106 ben-

Table 4.20
Physical & Financial Progress of Flood Management and Coastal Zone Management Programme during the Eighth Plan Period

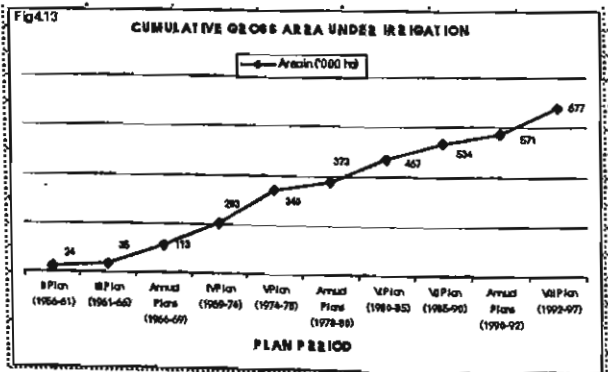
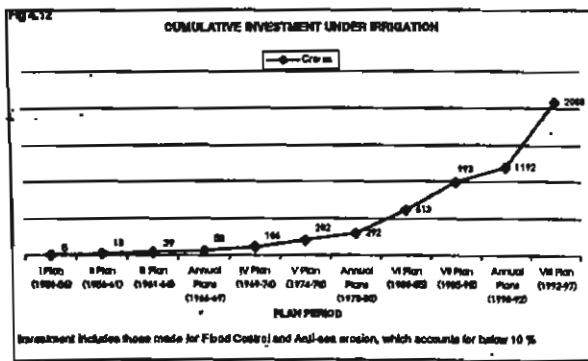
(Area in ha.)
 (Amount Rs. in lakhs)

| Sl. No. | Item | Financial Achievement | | | | | Physical Achievement | | | | | Cumulative upto 96-97 |
|---------|---------------------------------------|-----------------------|---------|---------|---------|---------|----------------------|---------|---------|--------|---------|-----------------------|
| | | '92-93 | '93-94 | '94-95 | '95-96 | '96-97 | '92-93 | '93-94 | '94-95 | '95-96 | '96-97 | |
| 1. | Flood Management Programme | 411.14 | 423.14 | 784.16 | 902.02 | 1436.16 | 2500 | 1500 | 2400 | 2180 | 3000 | 48772 |
| 2. | Anti-sea erosion works | | | | | | | | | | | |
| (a) | New Sea wall Construction | | | | | | | | | | | |
| (b) | Reformation of old & damaged sea wall | 1426.79 | 2323.21 | 1836.14 | 1753.29 | 1738.87 | 6.80 km | 4.98 km | 6.20 km | 5 km | 7.92 km | 344.47 km |
| | | | | | | | 6.65 km | 5.00 km | 6.82 km | 2.5 km | 6.00 km | 73.52 km |

efficient farmers associations were formed and 384 training programmes were conducted. The physical achievement of CADA programmes during the Eighth period is given in Appendix 4.74.

4.181 By the end of the 8th plan period, the onfarm development works relating to the first 10 projects were over. A new scheme for the reclamation of water logged areas in the command area is proposed to be taken up by the CADA. Preliminary exercises like preparation of detailed project reports in respect of identifying the areas for taking up the works are in progress.

4.182 CADA has been assigned the responsibility of popularising the concept of participatory irrigation management among farmers to make them aware of their important role in the management of irrigation systems. Project level seminars have been conducted. Under the new Panchayat Raj set up, CADA would have to work in close association with the local bodies and undertake the developmental activities in the command areas of the projects, keeping in mind, the local priorities and mobilising people's participation. Such reorientation of CADA approach should ensure much more improved results.



ENERGY DEVELOPMENT

Availability of cheap and abundant energy and its efficient and same use are vital to rapid socio-economic development and well being in a developing economy. While this aspect is recognized, the natural energy resource endowments and their uneven geographic distribution in India make formulation of a sound and equitable energy policy complex. This is compounded by the fact that four of the major energy sources viz. coal, oil, gas and atomic energy is controlled by the Central Government making energy initiations at the state level dependent on overall central policy.

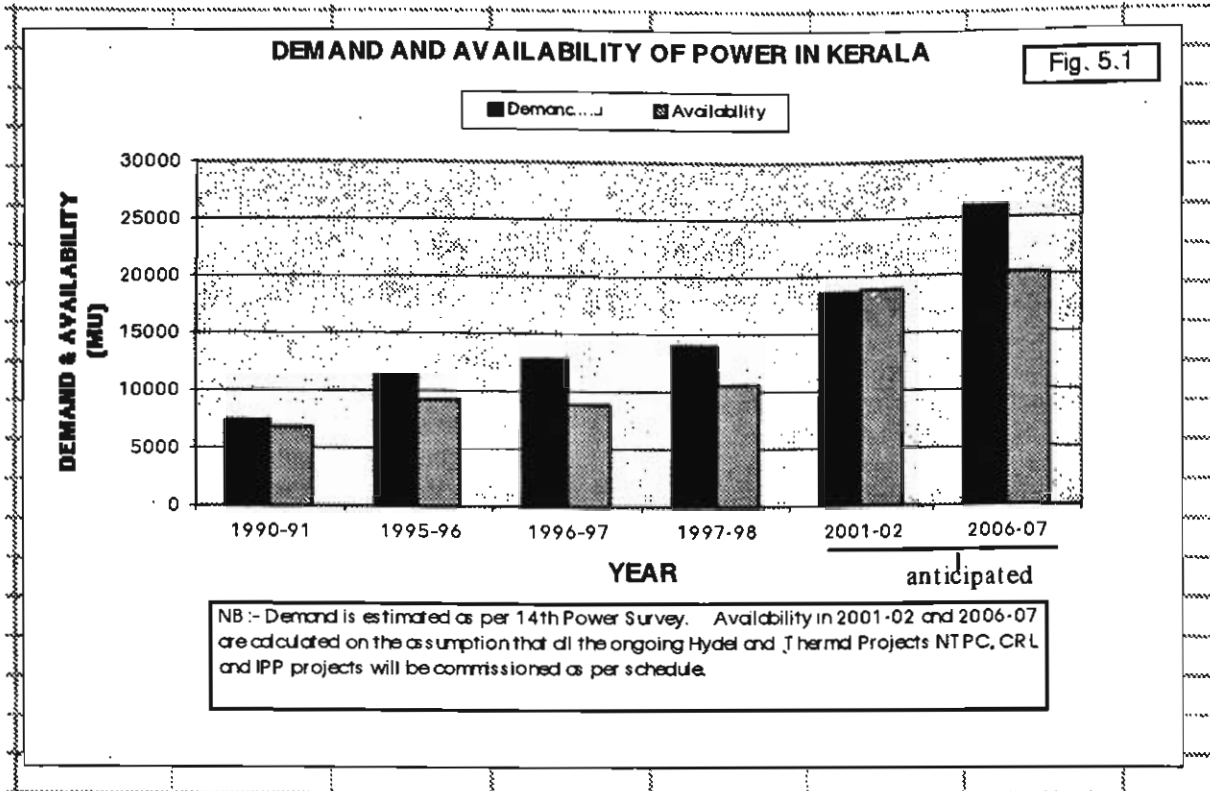
5.2 Kerala's energy resource endowments and its geographic location with respect to nation's energy resources make Kerala's energy economy somewhat unique. The only local commercial energy resource endowment in Kerala is its hydro potential which is theoretically significant. It has been the back bone of Kerala's energy economy and its development was proceeding at a satisfactory pace till the mid eighties when it began to suffer a set-back on environmental objections and inter-state differences. The Silent Valley Project which the state wanted to take up in the late seventies to maintain the pace of hydro development was denied clearance on environmental considerations. The Pooyankutti Project, which was suggested as a substitute is still to be cleared though it has been scaled down to meet the environmental objections. Some of the other projects involving interstate aspects are awaiting clearance.

5.3 The state's efforts to diversify its sources of power generation have been tortuous. Its geographic location with respect to coal bearing regions is extremely unfavorable making transportation of coal by rail most expensive and difficult. The more attractive route of coastal transportation has not found favour for diverse reasons. The oil and gas explorations in the Kerala coast have not led to any significant discoveries. The efforts of Kerala and other states in the Southern Region for a gas pipe line from the Bombay High fields did not fructify though from the point of view of over all national energy policy their case was strong. Only recently Kerala's request for the establishment of a Central Sector Hydro-Carbon based power plant at Kayamkulam by National Thermal Power Station has been agreed to and is under construction. A Liquefied National Gas terminal at Kochi has also been agreed to.

Eighth Plan (1992-97)

5.4 Kerala's own power programme has been making very slow progress since mid eighties. The physical achievements during the Eighth Plan (1992-97) were much below expectations though the expenditure was substantially higher than the outlay. In the Eighth Plan an addition of 439 MW was envisaged along with a net work of transmission lines, substations and distribution systems.

5.5 An outlay of Rs. 1300 crores had been provided for the energy programme representing 24 % of the total state plan outlay. This comprised Rs. 1281.20 crores for power development under KSEB and Rs. 18.8 crores for development of non-conventional energy sources and other minor programmes. The actual expenditure on the programmes was Rs. 1796.43 crores, but the physical achievements during the period were well short of targets. The addition to installed capacity was only 32 MW. The major hydro schemes, Lower Periyar (180 MW) and Kakkad (50 MW) slipped and spilled over to the Ninth Plan. In the transmission sector, the most important achievement was the completion of the 400 KV substation at Thrissur which has enabled the State to avail of its share in the Central sector power from the Southern Regional Grid. The other achievements include construction and commissioning of 110 Ct Km of 220 KV lines, 178 Ct Km of 110 KV lines, 67 C.Km of 66 KV lines and one 220 KV, 16 Nos. 110 KV and 6 Nos. 66 KV substations. Attention was also given to provide reactive compensation by installing 505 MVAR capacitors to improve the voltage conditions and transmission capabilities and reduce T&D losses. While expansion in generation capacity during the VIII Plan was marginal, expansions in distribution could not be held back. Electricity connections given during the plan period added upto 12.2 lakhs, bringing the total number of consumers in the state to 49.23 lakhs. This meant a 30 per cent increase in connections. Although electricity reached all villages of Kerala by 1979, about 60% of the households have been electrified so far. The shortfalls in the power programmes have led to gradual deterioration in the power supply position of the state. A power surplus state till 1987, when the state was in a position to supply power to the neighbouring states, Kerala faces to lay a reversal of the situation with power shortages of varying magnitudes, depending on the intensity and vagaries of monsoons (Fig 5.1). The resulting



power cuts have been applied mainly on the industrial sector. Reliance exclusively on a single source of hydro has made the Kerala power system extremely vulnerable. The state has been relying significantly on imported power, mainly its share from the Central sector power plants and to some extent assistance from neighbouring states. This has been adding significantly to the cost of power making the financial operations of KSEB difficult.

5.6 Apart from the inadequacies in generation, the slow progress of the T&D programme had led to inadequacies in transmission capabilities for transfer of power from different generation sources, both internal and external, to the load centres. This called for skillful operation of the power system. It is a matter of satisfaction that the State Load Despatch Centre, has been able to maximise power utilisation with co-operation from the Regional Load Despatch Centre at Bangalore, especially for transfer of power from the Southern Grid.

5.7 During 1996-97, the last year of the Eighth Plan, the commissioning of the Lower Periyar Project slipped due to unusual contractual problems. The addition to installed capacity was meagre 3 MW. The failure of monsoons compounded the difficult supply position. There was a substantial shortfall of 1159 MU in generation - 5503 MU in 1996-97 compared to 6662 MU in 1995-96.

The outlay and expenditure on energy development during various plan periods is given in

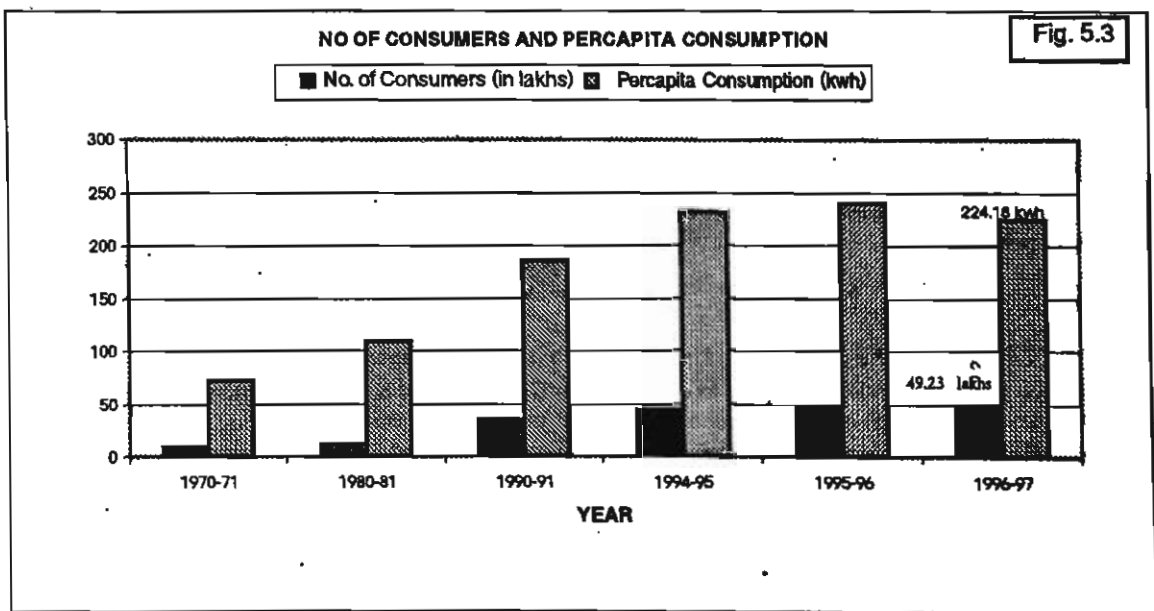
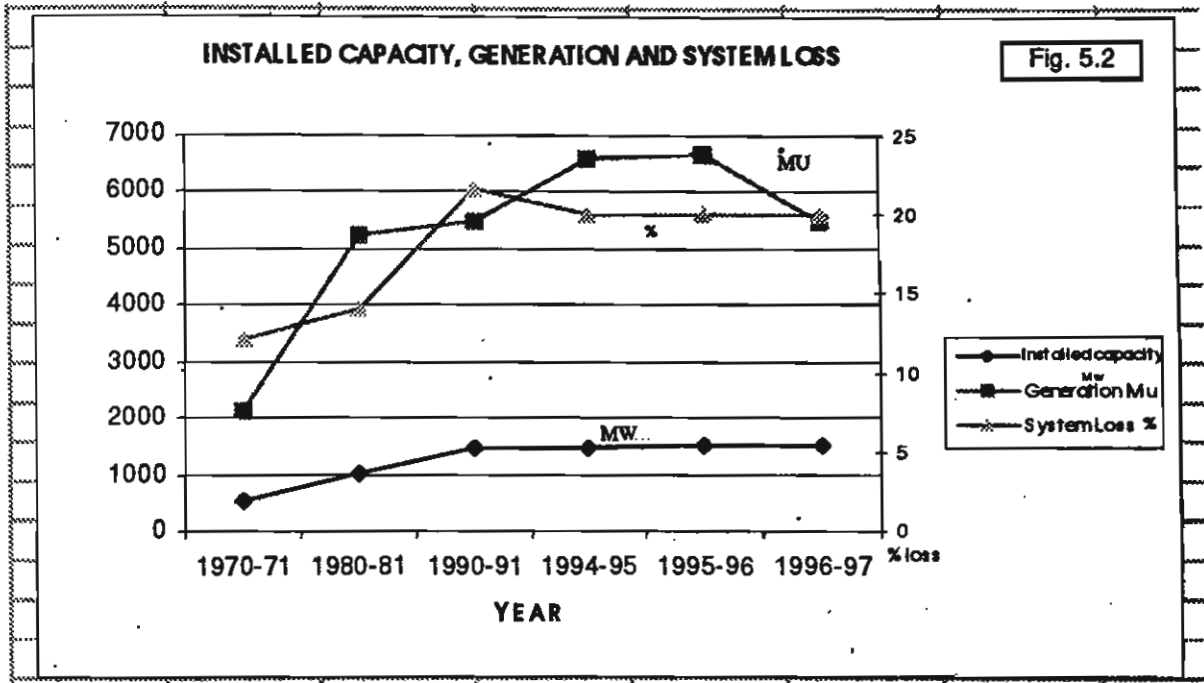
appendix 5.1, and growth of power system at a glance is given in appendix 5.2.

5.8 The quantum of energy purchased from the Central sector power plants registered an increase from 2638 MU to 3298 MU between 1995-96 and 1996-97. The total sales of energy during the period 1996-97 was 7020.77 MU show in a decline of 393.85 MU over the sales in 1995-96. The per capita consumption of electricity in the state was 224.18 Kwh during 1996-97 as against 240.07 Kwh during 1995-96. This was the lowest among neighbouring southern states and far below the national average of 314 Kwh. During the same period the number of consumers showed an increase from 46.85 lakhs to 49.23 lakhs registering an upward trend of 2.38 lakhs. The energy loss as percentage of energy available for sale showed a marginal decline from 20.05 % in 1995-96 to 19.96% during 1996-97. In the transmission and distribution sector 4.28 Ct Km. of 110 KV line, 637.14 Ct Km of 11 KV line, 2003.06 Ct Km of L.T. line were commissioned during 1996-97. 1229 distribution transformers of capacity 133.27 MVA were also installed during the year. Two 220 KV substations - one at Palakkad and another at Kannur were commissioned. Five of 110 KV substations at Manjeswaram, Pazhyannur, Kunnamangalam, Wellington Island and Kadavathara were commissioned. Two 220 KV substations were partially commissioned - one at Kasargod and another at Brahmapuram. 567 Ct Kms of 220 kV lines (Thrissur - Kozhikode - 186 Ct Kms; Thrissur -

Palakkad - 164 Ct Kms; Kozhikode - Kannur - 217 Ct Kms) were commissioned recently. Another 54 Ct Kms of 110 KV line (Tap line to Manjeswaram, Ottappalam to Pazhayannur, Pothencode to Paruthippara, FACT-CD line linking) and 66 Ct Kms of 66 KV line (Valiaparamba to Sreekantapuram) were commissioned. In distribution sector 9752 street lights and 10045 irrigation pumpsets were installed during the year under review. The details of power projects and power generation as on 31.3.1997 and profile of ongoing H.E. Projects are given in

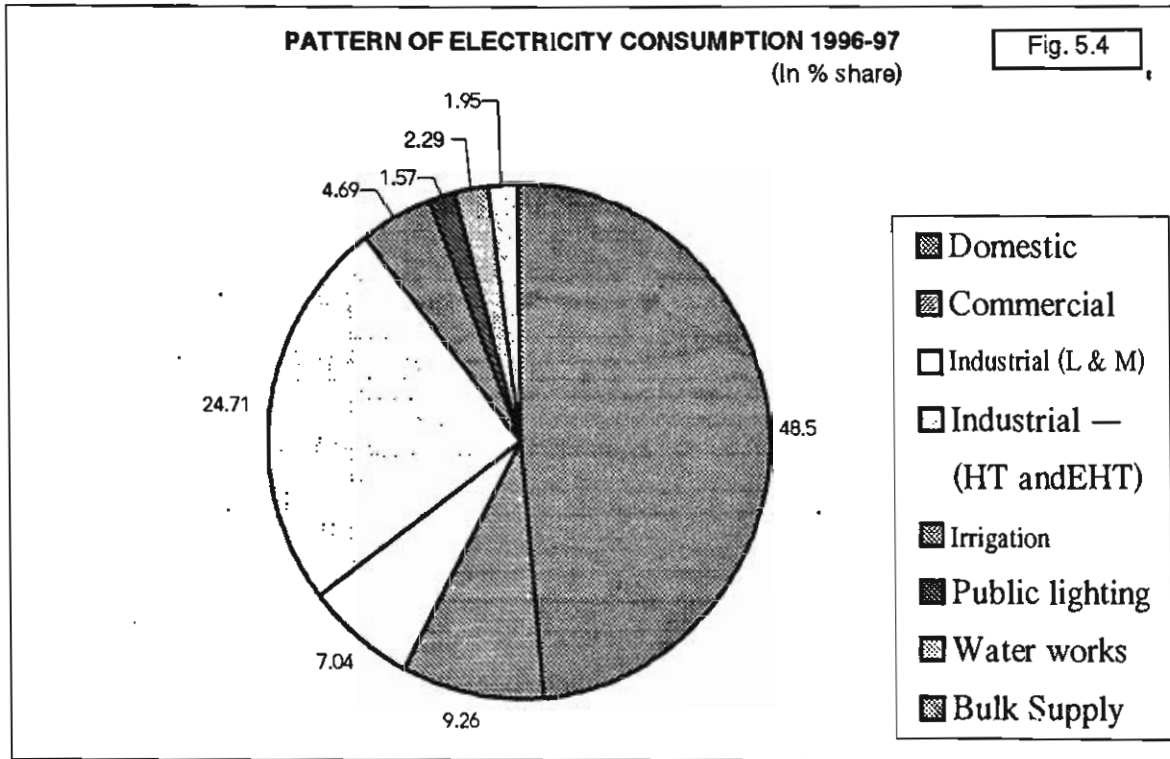
appendices 5.3 and 5.4 respectively. The installed capacity, generation and system loss and number of consumers and percapita consumption are given in figures 5.2 and 5.3.

5.9 The pattern of consumption and revenue collected during 1996-97 are presented in appendix 5.5 and fig. 5.4. While domestic consumption increased by 11.05% in 1996-97, in the case of commercial lights, fans etc. there was a slight decrease of 0.04% and consumption registered a decline of 11.99% in the industrial category.



Revenue collection on the whole declined during 1996-97. This was attributable altogether to the power cut imposed to various categories of consumers, power projects and power generation. The average realisation from the sale of power during 1995-96 and 1996-97 are given in appendix 5.6.

same time financial viability of KSEB, and the improved efficiency of its operations through such reforms within the existing framework as make KSEB a consumer responsive organisation have to be aimed at. The salient features of the power programme are as follows.



5.10 There was no change in the tariff for agricultural and dewatering category. The subsidies allowed to certain categories of industries and agriculturists continued during the year under review also. The electricity supplied to paddy cultivators was made free from 1.8.1995.

5.11 The average tariff in Kerala was low being only Rs. 1.03 per unit compared to other States in India including Karnataka, Andhra Pradesh, Tamil Nadu, Maharashtra and West Bengal where the rates were Rs. 1.43, Rs. 1.26, Rs. 1.72, Rs. 1.54 respectively. The average tariff rate of various categories of consumers for 1995-96 and 1996-97 are given in Appendix 5.7.

Ninth Plan

5.12 The major thrust of the 9th Plan is to add generation and transmission capacities as quickly as possible. KSEB had the benefit of the reports of a High Power Committee appointed by the Department and the Steering Committee appointed by the State Planning Board.

5.13 According to the integrated programme, "VISION 2000", the self-sufficiency in power supply is to be achieved by 2000 AD. At the

5.14 Highest Priority given in the Ninth Plan period is to complete all the ongoing power generation projects within a stipulated time schedule. The Projects for which some clearances are to be obtained should be closely followed up and clearances obtained before embarking on them. In transmission, distribution and system improvement sector, all spill over works from the previous plans which have achieved more than 25% of the target are to be completed in two years. Schemes not started so far or where achievement level is less than 25% must be reviewed and approved, backed by detailed load flow study. T&D Loss has to be reduced, technical losses minimised so that voltage stability is increased. Priority is also to be given to renovation and modernisation of the existing hydroelectric projects for increasing efficiency and reducing operational costs. Encouragement is to be given to power development and supply at municipal and panchayat level with emphasis on harnessing small hydro, mini micro projects and renewable sources locally available viz., solar, wind, biomass etc.

5.15 An amount of Rs. 2671 crores is proposed as Ninth Five Year Plan outlay for Energy Development. Of this plan provision, Rs. 2531 crores is earmarked to implement the programmes of KSEB

and Rs. 140 crores is intended to take up Non-conventional Sources of Energy programmes, Integrated Rural Energy Programmes and other minor schemes. Besides some funds would also become available from the funds earmarked and allocated for the peoples plan for the local energy and electrification programmes.

1997-98

5.16 There are clear indications of a turn around for the better in the performance of the power sector. Several important milestones have been achieved in KSEB's operations after a long period of stagnation and procrastination. A record 288.6 MW of installed capacity has already been added to the State Grid during 1997-98. This was with the commissioning of the following projects.

| | |
|-----------------------------------------------|--------------------|
| Barhmapuram Diesel Power Plant (106.6 MW) | - in June 1997 |
| Lower Periyar Hydro Electric Project (180 MW) | - in Sept. '97 and |
| Madupetty (2 MW) | - in January 1998 |

5.17 As a result, the installed capacity which was only 1508.5 at the beginning of the year had increased to 1797.1 MW in January '98. Considerable progress was also achieved in the construction of other ongoing projects of KSEB such as Kakkad, Poringalkuthu Left Bank, Kuttiyadi Extension and other schemes.

5.18 Transmission and distribution network also registered an impressive growth during 1997-98. In transmission the thrust was to complete and commission ongoing projects rather than to start new projects. Three 220 KV substations, six 110 KV substations and two 66 KV substations were commissioned this year. 622 circuit km of 220 KV lines, 143 circuit km of 110 KV lines, 25 circuit km of 66 KV lines were energised during this period. A total of 960 MVA of transmission capacity has been added in 1997-98. This has resulted in improvement of T&D performance.

5.19 In distribution, it is estimated that 2.89 lakhs service connections will be given during 1997-98. The Government has also liberalised the system for giving connection to agricultural pumpsets.

Power Supply Management:

5.20 With support from the State Government, KSEB has been managing power supply adopting a multipronged approach judiciously combining local generation with imports. The major achievement during 1997-98 was the purchase of 100 to 150 MW of power per day from the Eastern Region.

This power started flowing into the Kerala Grid from 1st February, 1998. Due to the purchase of this power, it was possible for the Government to lift the power cut for HT, EHT consumers. The state has also been successful in obtaining a larger central share than in previous years. During the current year (up to 31.3.98) total energy purchased will be 3455 million units as compared to 2673 million units during the same period in 1996-97. Government has also announced a very attractive captive generation policy to industrial consumers. KSEB will purchase excess energy produced by captive plants. Acting on the premise that a unit saved is a unit generated, demand management steps have also been taken up. KSEB and ANERT have jointly distributed, as a pilot programme, subsidised compact fluorescent lamps to selected consumers in Thiruvananthapuram. Time of the Day meter (TOD meter) has been made mandatory for all HT, EHT consumers.

Revenue Collection:

5.21 Government initiated a number of steps to improve the financial viability of the Board. A tariff revision was made effective from 1st February 1997. The system of automatic increase in tariff (10% every year), was extended to all HT, EHT & LT consumers (other than domestic, agricultural and street light consumers). Also, in future all subsidies also be given directly by the concerned departments so that KSEB can charge the rates as applicable. The State Planning Board has set up a Committee to review and rationalise tariffs and suggest measures for improving the financial operations of KSEB. This committee is expected to submit its report shortly.

5.22 KSEB has taken the series of measures to improve revenue collection. A programme to change all faulty three phase meters was launched on a war footing. Two special squads were raised to monitor consumers with high demand so as to check leakage in revenue collection. An ABC analysis to identify and monitor closely the highest revenue earning section offices and consumers have been launched. 164 section offices have been identified as the most important revenue earning sections. Collection of revenue from these sections monitored by the Member (Accounts) and the Chairman on a fortnightly basis. With the introduction of ABC analysis, it is hoped that the revenue collection will improve significantly.

5.23 As is apparent there is recognition that resource mobilisation effort has to be stepped up in order to achieve the targets aimed at for VISION 2000. Still, measures taken so far may need considerable further stepping up in order to increase the investments proposed for the Ninth Plan.

Resource Mobilisation:

5.24 In order to improve the KSEB's resources mobilisation, the Government permitted the KSEB to go in for the issue of non SLR bonds through private placement. State Power Finance Corporation has been established to mobilise resources for the power sector.

Customer Relations

5.25 A major thrust in improving customer relations was started during the current year. With a view to ensure the co-operation of the people in the development of the power sector in Kerala, the popular committees have been formed in all major projects to monitor the progress of these schemes. Some of the Committees are functioning very efficiently. The HT/EHT billing systems have been totally computerised.

Other Achievements

5.26 A number of initiatives have been taken during the current year to improve the power situation in Kerala in the longer term. A major milestone was passed when the Athirappally Hydro Electric Project (163 MW) was cleared by the Central Government. Kerala is getting a major Hydro Electric Project after a very long time. Steps have already been initiated to start the Project and complete it quickly. The State Planning Board has entrusted to National Environmental Engineering Research Institute Nagpur, a study of reassessment of hydro potential keeping in view the environmental constraints. This study will enable identification of projects with local environmental impact for development in the future. Preliminary works on the Kozhikode Diesel Power Plant (128 MW) have already started. A letter of intent has been placed on BHEL and the Project is expected to be commissioned within 18 months. A transmission master plan involving over 1000 crores of rupees has been prepared and submitted to the power Finance Corporation, with a view to access funds from the Asian Development Bank. This plan will include all the substations and transmission lines that need to be constructed during the 9th plan period. District-wise studies have also been conducted to identify the lacunae in the distribution and sub-transmission network works.

5.27 A study was conducted by the Central Institute of Rural Electrification and based on their recommendation, project proposals have been submitted to the Rural Electrification Corporation. A major OECF scheme involving a sum of Rs. 160 crores is being sanctioned for reinforcing the transmission network. A scheme for the modernisation and renovation of old generating stations such as Pallivasal, Sengulam, Panniyar, Neriamangalam and Sabarigiri has been initiated.

Thermal Project

5.28 Realising that the hydro potential of the state is not sufficient to meet all the future energy requirements of Kerala, the Government has focused its attention on the thermal sector. Due to the persistent efforts of the state Government Kayamkulam Project was started in October 1996 by NTPC in the Central sector exclusively for the benefit of Kerala. Besides the State Government took steps to promote thermal power projects in the I.P.P. mode in the private and joint sectors. Fuel allocation for three private power producers namely Bombay Subinsan Electricity Supply Co. (107 MW), EDL (107 MW) and Kannur Power Project (513 MW) was obtained. Of these projects, the BSES has already started construction of their Project at Kochi. The state Government has taken keen interest in the 500 MW Power Project of Cochin Refineries Ltd. First stage clearance for this project has been obtained already, it is expected that the project will be commissioned by 2002. Since all the thermal projects excluding CRL are based on naphtha, a long term fuel source is a necessity. To that end the state Government has been proposing to the central Government to build Liquefied Natural Gas (LNG) terminal at Kochi, so as to feed the hydro carbon based power plants. The Gas Authority of India Limited have finalised plans for starting an LNG terminal at Kochi. This is expected to be commissioned by 2002.

Mini Hydel Projects

5.29 Kerala has substantial mini hydel potential. To exploit this potential, a series of policy measures have been taken. 302 small/mini hydel schemes with a total installed capacity of 679 MW have been identified of these, DPRs have been prepared for 34 schemes and preliminary investigation of 54 schemes are going on. Apart from the Mini hydel projects already commissioned by KSEB (Kallada, Peppara and Madupatty), the Maniyar (12 MW) mini hydel has been commissioned by a Private company. Four schemes involving a total capacity of 58 MW is expected to be completed by the private sector in 2000 AD. An additional 22 schemes have been posed to the private sector as captive projects and the KSEB is directly implementing three more mini hydel projects. A major initiative for the Government during the current year has been to obtain Chinese assistance for a comprehensive development of the mini hydel potential of the Chaliyar basin. Since the Chinese have expertise in the area, it is proposed that 12 schemes with an installed capacity of 100 MW will be taken up with Chinese assistance. The technology will be supplied by the Chinese Agency and they will also be imparting necessary technical training to the engineers of KSEB.

5.30 With the introduction of the concept of decentralised planning in the State, the local hodies, panchayats and municipal institutions are showing keen interest on development of non-conventional sources energy, rural electrification and local distribution. This is expected to result in acceleration of spread of benefits of electricity in rural areas.

5.31 A project to improve the overall efficiency of the KSEB has been launched with the assistance of the Canadian Government. The project known as Energy Infrastructure Services Proejct is estimated to cost around Rs. 20 crores. The funds will be utilised, among other things, to strengthen the planning capacity of the Board, conduct scientific load forecasts and impart training to KSEB staff.

5.32 The policies initiated by the Govt. will ensure that the tempo created in 1997-'98 will continue in the remaining years of the 9th plan. With the commissioning of the Kayamkulam power plant and commissioning of the stream of the projects in the private sector for which IPP's have been signed, it is expected that the State will achieve self-sufficiency in power by the year 2000AD. The existing installed capacity, the import from central generating stations and the new plants that are coming up in Kerala in the next few years will together amount to a total of 4429 MW by the year 2002. The details of existing projects and additional capacity are given in the table 5.1.

Table 5.1

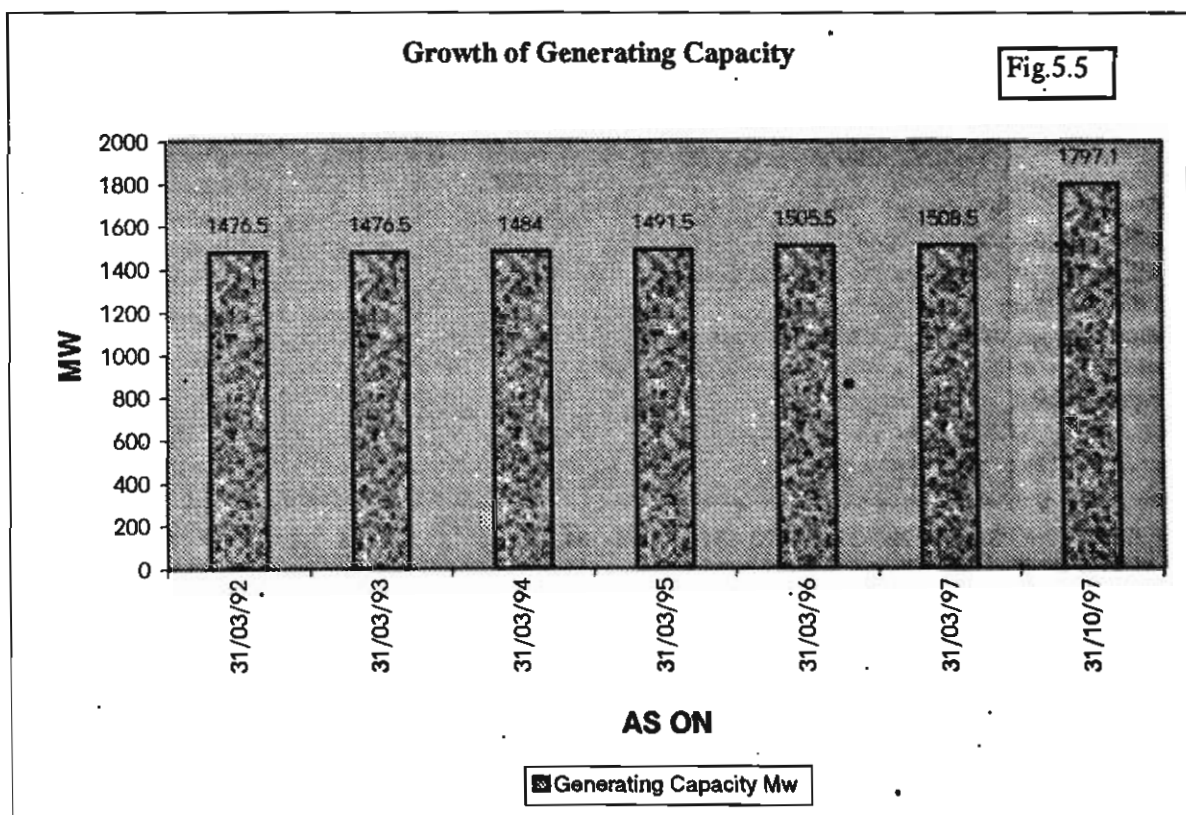
Power generation scenario in 2002 AD in Kerala

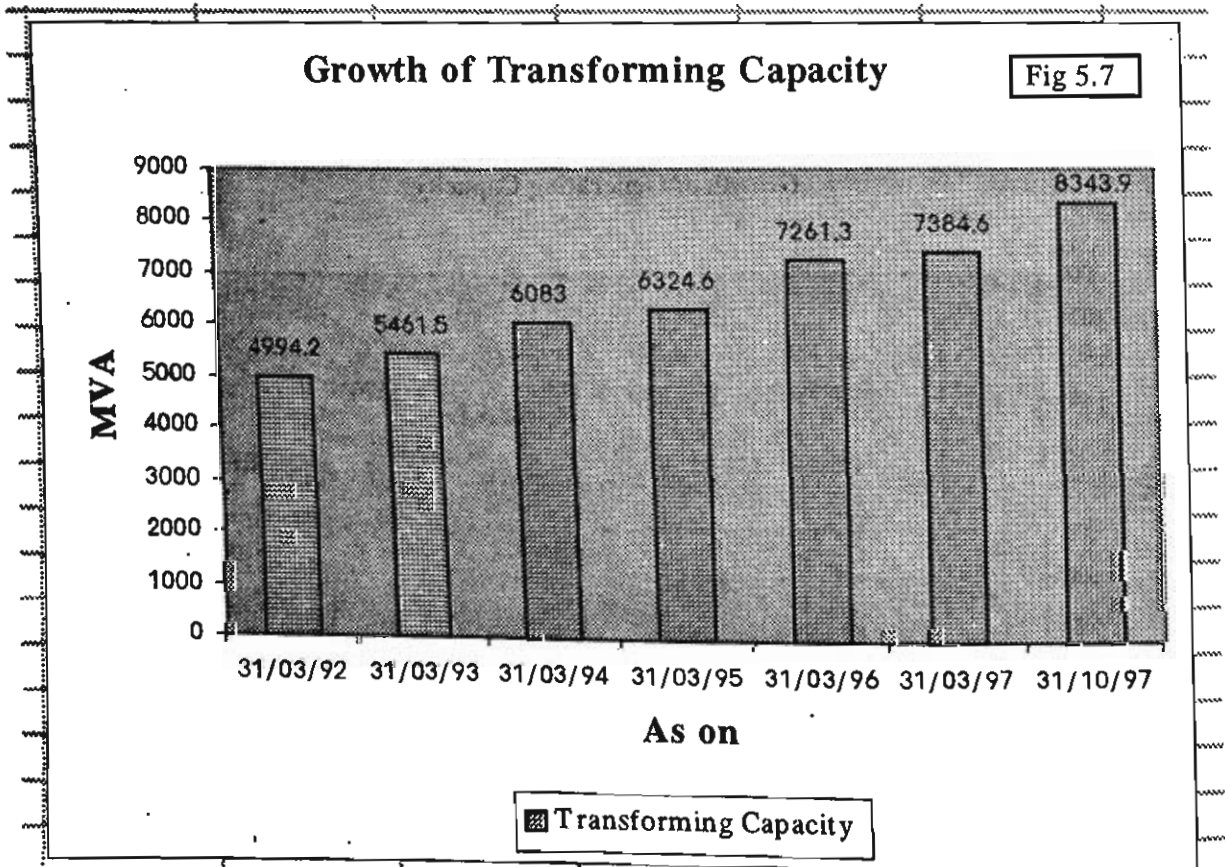
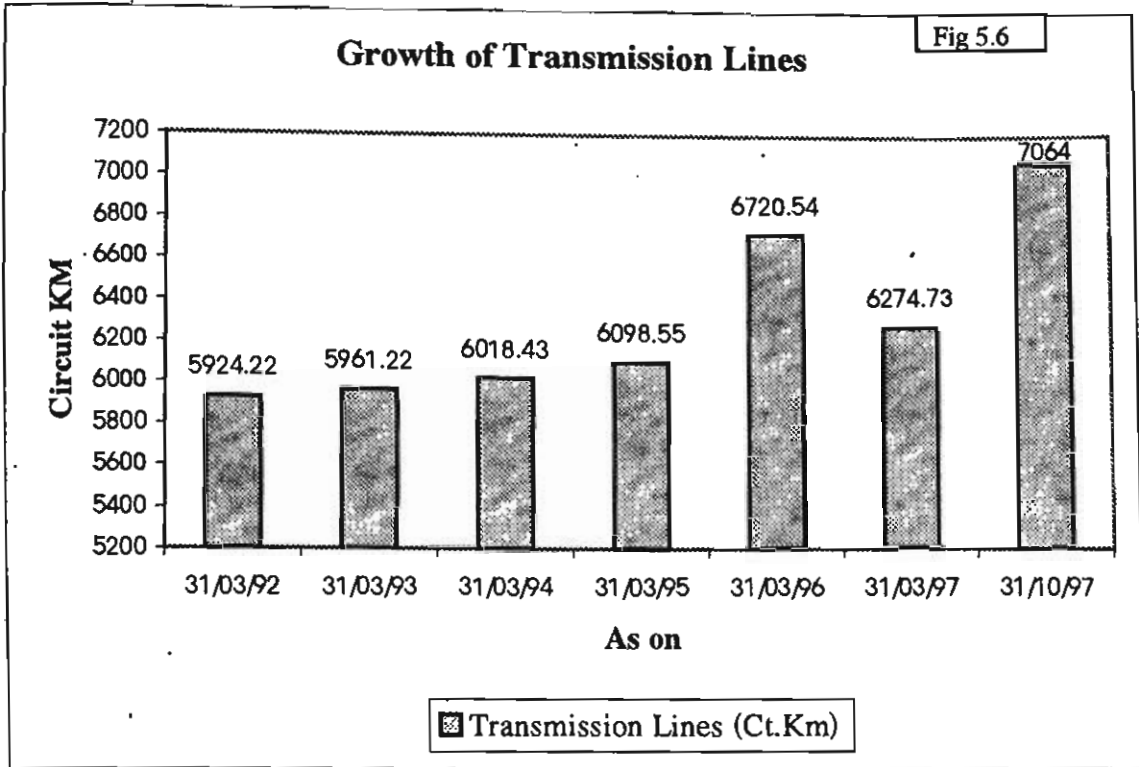
| | | |
|---------------------------------------------|---|---------------|
| Existing generation capacity (Janaury 1998) | - | 1797MW |
| Ongoing projects of KSEB | - | 150MW |
| Kayamkulam Thermal Project (NTPC) | - | 350 MW |
| IPP's | - | 1304MW |
| Mini Hydel (Private) | - | 100 MW |
| Kozhikode Diesel Power Plant | - | 128MW |
| Central Share | - | 600 MW |
| Total | | 4429MW |

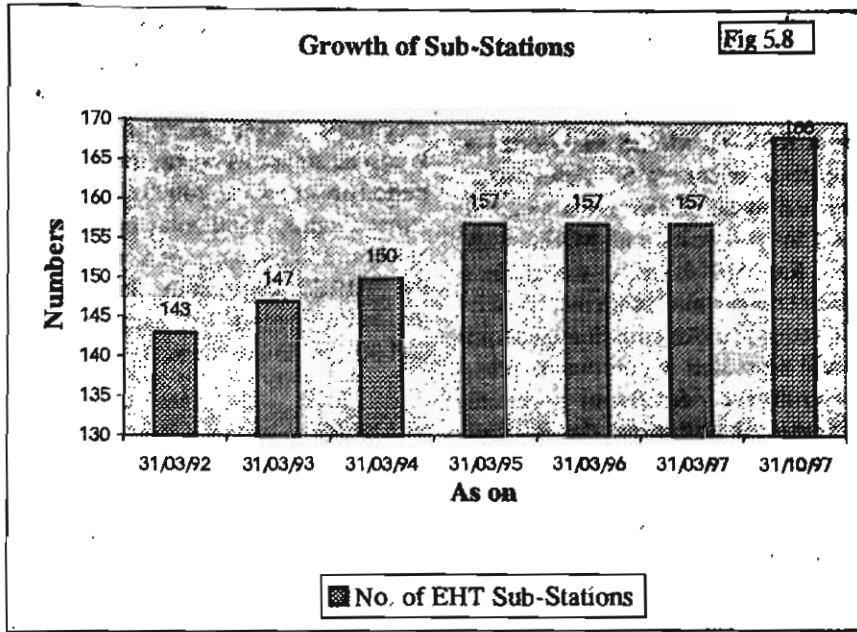
Source : KSEB

The achievements upto 10/97 are graphically represented in the following figures 5.5, 5.6, 5.7 and 5.8.

5.33 On the assumption that the projects envisaged for the 9th Plan come to fruition during the plan period, and the State draws on its share of power from Central generating plants, the power position in the State should be transformed. According to the 15th Power Survey, peak demand of Kerala in 2002 A.D. should add up to 3226 MW. As against, the State will have access to 4429 MW, if the projects proposed for the plan period, private as well as public sector, can be completed, for which an all out effort will be an absolute necessity.







NON-CONVENTIONAL SOURCES OF ENERGY

Agency for Non-conventional Energy and Rural Technology (ANERT) and Integrated Rural Energy Programme (IREP)

5.34 Agency for Non-conventional Energy and Rural Technology (ANERT) acts as a nodal agency which spreads the message of renewable source of energy and energy conservation among the various sections of the society. Major activities of the Agency are : National Programme on Improved Chulah, Bio-energy programme, Solar Thermal Extension Programme, Solar Photo Voltaic Programme, Wind Energy Programme, Energy Conservation and Energy Audit, Research and Development, Diesanol project and Battery operated vehicles demonstration programme.

5.35 Under Integrated Rural Energy Programme during 1992-97, 94500 fixed chulahs, 149000 portable chulahs and 3400 community chulahs were installed/distributed to various beneficiaries of the state. During the same period ANERT also distributed 34000 electronic chokes, 83584 energy efficient kerosene stoves, 22000 Compact fluorescent lamps (CFL) and 60000 pressure cookers as part of implementation of energy saving devices. Besides, in the field of Solar Photo Voltaic (SPV) and solar Thermal activities, 720 domestic lighting units, 250 solar street lights, 18336 solar lanterns, 50 solar TV power packs, 190 solar water heaters and 4200 solar

modules were distributed and installed through the 28 IREP offices functioning in the state. Apart from these activities, under IREP 123 exhibitions, 841 user education programmes and 425 awareness programmes were also conducted during the reporting period.

5.36 As a mark of recognition, ANERT received an award from the Central Ministry of Non-Conventional Energy Sources, for its commendable achievement in NPIC activities during 1995-96 and a National Award for the best performance in SPV for 1994-95. Awards for information and Public awareness achievements during 1995-96 and 1996-97 were also received by the organisation.

5.37 ANERT undertakes distribution/installation of fixed, community and portable chulahs under the National Programme on Improved Chulah. During 1996-97, ANERT could generate 60,000 mandays employment by doing all these programmes, under bio-energy programme, 60 numbers biogas plant using poultry dropping to be completed soon at Eranallur in Alappuzha District. Solar industrial and domestic water heating systems, Solar driers, solar cookers etc. are popularised through ANERT under solar photo voltaic programmes, distribution of SPV devices and installation of SPV lighting system and power system in the unelectrified areas. The department undertakes wind resource assessment programme, wind energy promotional and development programme and wind farm projects. Energy conservation aims at energy audit programmes, distribution of energy saving devices,

consultancy works performance evaluation of kerosene stoves, CFL etc. The department has a full fledged audit wing and conducted energy audit programme for industry AMP Tools India Pvt. Ltd. In the period under review, the department got permission from MNES to start a diesanol project in collaboration with KSRTC. MNES sanctioned a demonstration project on operating 50 diesel buses of KSRTC on dual fuel made of diesel and meethyl alcohol (Methanol) for two years with MNES with an estimated cost of Rs. 78.84 lakhs. In this project about 12 to 14% diesel replacement with methanol is possible whcih will reduce smoke emission by about 33%. The project will be started within two months. With the view to conserve petrolleum products and reduce environmental pollution, the Battery Operated Vehicles Demonstration Programme was introuded in 1996. The project was implemented through State nodal agenceis. Assistance for one such vehicle was released through ANERT in the year under review. The beneficiary was M/s. N.C. John and Sons Pvt. Ltd., Alappuzha. They are operating

the Battery Operated Forklift at their factory in Alappuzha.

5.38 During 1996-97, 27500 fixed and 38000 portable chulahs were distributed/installed under I.R.E.P., ANERT distributed 18000 CFL with electronic chokes, 21000 pressure cookers, 41000 kerosene stoves as energy saving devices during this period under review. 24000 electronic chokes, 81 solar street lighthts, 8500 solar lanterns, 120 solar water heaters, 3300 solar panels were distriuted through the 28 IREP offices in the Stae during the year 1996-97. In this period, 140 user/awareness programmes and 30 exhibitions were also conducted.

5.39 The research and development wing of ANERT is engaged in taking up development or NRSE devices and improving technical support to the implementation of projects etc. In the rural technology side, the department introduces new technologies, icnrease production and improve the quality of life of rural mass. All the programmes are being implemented in the 28 IREP Blocks in the State.

INDUSTRY AND MINING

Industrial development which was accorded a comparatively high priority from the Sixth Five Year Plan onwards, with its share ranging between 10-15% of the total state Plan outlay. During the 8th Plan an outlay of Rs.810 crores was set apart for the development of this sector which was 14% of the State Plan. The actual expenditure was Rs. 862.52 crores.

6.2 The Eighth Plan programmes for the Medium and Large Industries can be grouped under two heads. (i) promotional institutions and schemes and (ii) public sector manufacturing enterprises. Out of the plan outlay of Rs.500 crores for these programmes, major portion was meant for the promotional activities to be taken up by the Kerala State Industrial Development Corporation Ltd. (KSIDC), Kerala Financial Corporation (KFC), Electronics Technology Parks, Kerala (Technopark) and Kerala Industrial Infrastructure Development Corporation (KINFRA). This was done with the objective of providing necessary financial and infrastructural facilities to attract more private investment into the state. KINFRA was set up in 1993 for the development of industrial parks at various locations with industry specific infrastructure. Technopark which was setup in 1990 for the development of Electronics and Software industries in the State, started its activities during the Eighth Plan period. Government of India sanctioned two industrial growth centres in Kerala at Kannur and Alappuzha with five sub centres, during the plan period at a total cost of 60 crores. Sites for all the sub centres proposed excepting that at Pathanamthitta have been identified and development works started.

6.3 Since 1995-96, in order to ensure more flexibility in releasing funds, it has been decided to bring all the 44 public sector manufacturing industrial units under a single head and provide funds for their revival/diversification/restructuring. An amount of Rs.56.80 crores was spent during 1995-96 and 1996-97 for the restructure/revival of the manufacturing units alone.

6.4 The target for the small scale industries sector during the 8th plan was to promote 50,000 new units. It was estimated that three lakh new employment opportunities would thus be created. Priority was given for providing adequate funds for State Investment Subsidy, Seed Capital Loan, Intensive Industrialisation Programme, Women's Industries Programme and Revitalisation of sick SSI units. The Plan outlay for this sector was Rs.150 crores

against which the anticipated expenditure was Rs.188.34 crores. Against the target 50,000 new SSI units, the achievement was much higher at 76,104 with record number of registered units in 1996-97. As regards employment generation 3.21 lakh employment opportunities were created against the target of 3 lakhs set for the 8th plan. Under the major schemes viz., Seed Capital Loan and State Investment Subsidy, 5586 and 7803 units respectively were assisted during the 8th plan period. Under the Women's Industries Programme (WIP), assistance was extended to 4331 SSI units. Through the Revitalisation of Sick Units programme a total of 1165 SSI units were revived during the plan period. The estimated value of production of SSI units was Rs.3838 crores against the target of Rs.3500 crores for the end of the 8th plan.

6.5 In the co-operative sector two promotional agencies viz., Hantex and Hanveev were the major actors in Handloom and Powerloom development during the 8th plan. Development programmes, especially production oriented ones, extension and training and welfare measures accounted for the major part of the plan outlay of Rs.40 crores. Against this the expenditure was Rs.78 crores. Total number of looms stood at 60509 and co-operative societies numbered 735 at the end of 8th plan. A new scheme, the Integrated Powerloom Village Project, with a view to provide employment of 3 lakh people was started during the period with financial assistance from HUDCO, NCDC, NABARD and State Government.

6.6 For Handicraft Industry, the increase in productivity and improvement of the quality of products and providing full employment to the workers engaged in the field were set as the objectives of the 8th Plan. Hence attempts during the plan period were made towards strengthening the share capital base of the handicrafts co-operative societies. To promote modernisation and diversification of the Handicrafts Industry, assistance was extended to the Handicrafts Development Corporation of Kerala Ltd., Kerala State Bamboo Corporation Ltd., Kerala Artisans' Development Corporation Ltd., and the Handicrafts Apex Society (SURABHI). During the year 1996-97, two new schemes viz., "House-cum-Workshed" scheme for Artisans and "Craft Development Centres" were introduced.

6.7 Coir Development schemes included in the 8th plan were largely on the basis of the

recommendations of a special Task Force constituted under the chairmanship of Dr.T.M.Thomas Isaac. Following its recommendations, a committee was also constituted for the revival of the sick coir co-operatives. The thrust area during the plan was modernisation of the industry. Special mention may be made of the Intergrated Coir Development Project which was introduced with assistance from the Centre and NCDC. Establishment of 100 mechanised defibering mills and 200 motorised spinning units was the target but the achievement was only 42 defibering mills and 124 motorised spinning units because of power restriction. The number of coir co-operatives increased from 474 to 679 during the plan period.

6.8 The 8th Plan provision for Khadi and Village Industries has been utilised for providing infrastructure facilities, marketing by establishing show rooms, revival packages for sick units, maintenance and supply of charkhas, looms, establishment of warping and dyeing units, providing interest subsidy etc.

6.9 For the 9th Plan, the objectives set are to improve the performance of the PSUs through more effective strategies and appropriate investment for the revival of sick units, modernisation of traditional sector through the allocation of resources for technology upgradation especially product designing and diversification and for marketing innovation. The role of Government as a facilitator rather than a direct financier of industrialisation is to be accorded greater importance. Also more stress and priority need to be laid on the creation of an environment to attract

adequate capital investment and technological upgradation of industry in Kerala. In order to achieve the objectives, the 9th plan has provided for a total outlay of Rs.1125.86 crores which is higher than the 8th plan provision of Rs. 810 crores by 39 percent. The subsector-wise allocation under Industry and Mining is as follows:

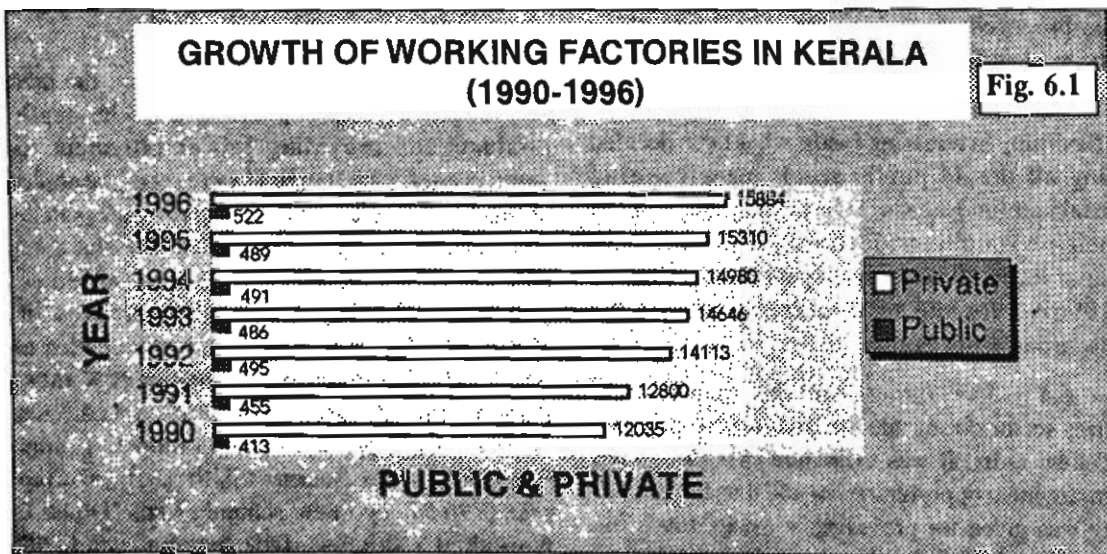
8th Plan outlay on Industry and Mining

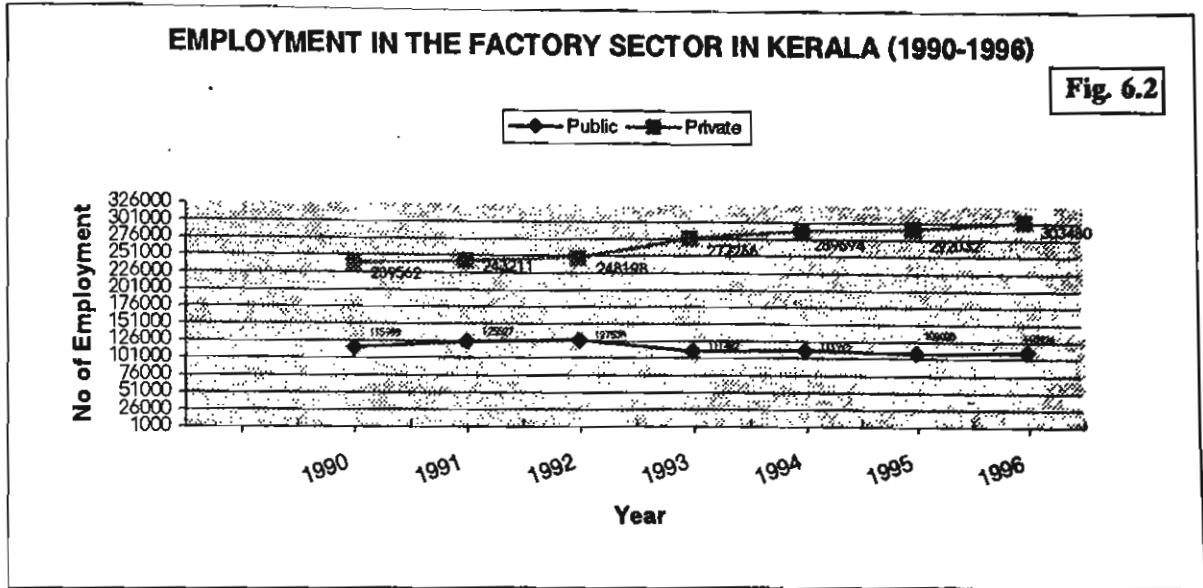
| Sub Sector | Outlay (Rs. crores) |
|-------------------------------------------------|------------------------|
| 1. Small Scale Industries | 259.00 |
| 2. Handicrafts | 10.00 |
| 3. Handloom & Powerloom | 80.00 |
| 4. Coir Industry | 100.00 |
| 5. Khadi & Village Industries | 20.00 |
| 6. Sericulture | 20.00 |
| 7. Cashew Industry | 20.00 |
| 8. Medium & Large Industries | 601.86 |
| 9. Bio-technology for Industrial Development | 5.00 |
| 10. Mining | 10.00 |
| Total | 1125.86 |

PERFORMANCE DURING 1996-97

Industrial Production, 1995-96

6.10 According to the latest data available, the general index of industrial production of Kerala slightly increased by 0.16 percent from 255.08 in





1994-95 to 255.49 in 1995-96 (Base Year 1980-81). A group-wise analysis of production during 95-96 reveals that the index of 884.42 for manufacture of machinery and equipment other than transport equipment has the highest followed by 808.07 for metal products and parts except machinery and equipment, and manufacture of paper and paper products 806.12. The production indices for manufacture of paper and paper products sector decreased from 1397.18 during 94-95 to 806.12 during 95-96. Increase in production was achieved in sectors like manufacture of tobacco, beverages and related products, textile products, basic chemicals and chemical products, rubber, plastic, petroleum and coal products etc. Indices for cotton textiles, food products, non-metallic mineral products declined in 1995-96 compared to the position in the previous year. The indices for industrial production for the years 1994-95 and 1995-96 (Base year 1980-81) are given in Appendix 6.1.

Working Factories and Employment

6.11 At the end of 1996, there were a total of 16406 registered working factories in the State. Of these, private sector units were 15884 and public sector units were 522 units. Number of working factories increased in 1996 by 607 over the previous year (15799) registering a growth rate of 3.84 percent (Fig. 6.1). The total number of workers employed in the registered working factories in the State has increased to 414404 in 1996.(Fig. 6.2). The number

of workers in the public sector factories was 110924 and the balance was employed in the private sector factories. The details in the growth of working factories and employment during the period from 1988 to 1996 are given in Appendix 6.2.

6.12 An analysis of the district-wise working factories in the State during 1996 shows that all the districts except Wayanad witnessed a growth in the number of working factories. Emakulam district continued to rank first in the total number of factories (2504) followed by Thrissur district (2109). Palakkad district showed the largest increase in the number of factories from 1758 in 1995 to 1892 in 1996. District wise distribution of registered working factories in Kerala from 1988 to 1996 is furnished in Appendix 6.3. The number of workers employed increased in all the districts in 1996. The highest increase in the number of workers was in Emakulam district from the level of 57047 in 1995 to 60429 in 1996 an increase of 3382. The district wise distribution of registered working factories and employment for the period from 1992 to 1996 is given in Appendix 6.4.

Industrial Disputes

6.13 Statistics on industrial disputes in 36 different types of industries in the State show a declining trend. The number of industrial disputes handled in the State decreased from 12500 in 1993-94 to 8577 in 1996-97. The total number of disputes arising during 1996-97 also declined from 5874 to 5274 during 1995-96. Out of 8577 disputes handled

during the year 96-97, a total number of 5766 cases could be settled during that year itself (67.22 percent). Number of disputes that led to strikes and lock outs decreased from 59 in 1995-96 to 53 in 1996-97. The number of workers affected by strikes and lock outs also declined from 36085 in 1995-96 to 34376 in 1996-97. There was substantial decline in 1996-97 in the total number of mandays lost due to strike and lock outs. During 1996-97 the mandays thus lost was 14.33 lakhs as against 23.68 lakhs during the previous year. Details of industrial disputes arose, handled, settled etc. in the State for the period from 1993-94 to 1996-97 are given in Appendix 6.5.

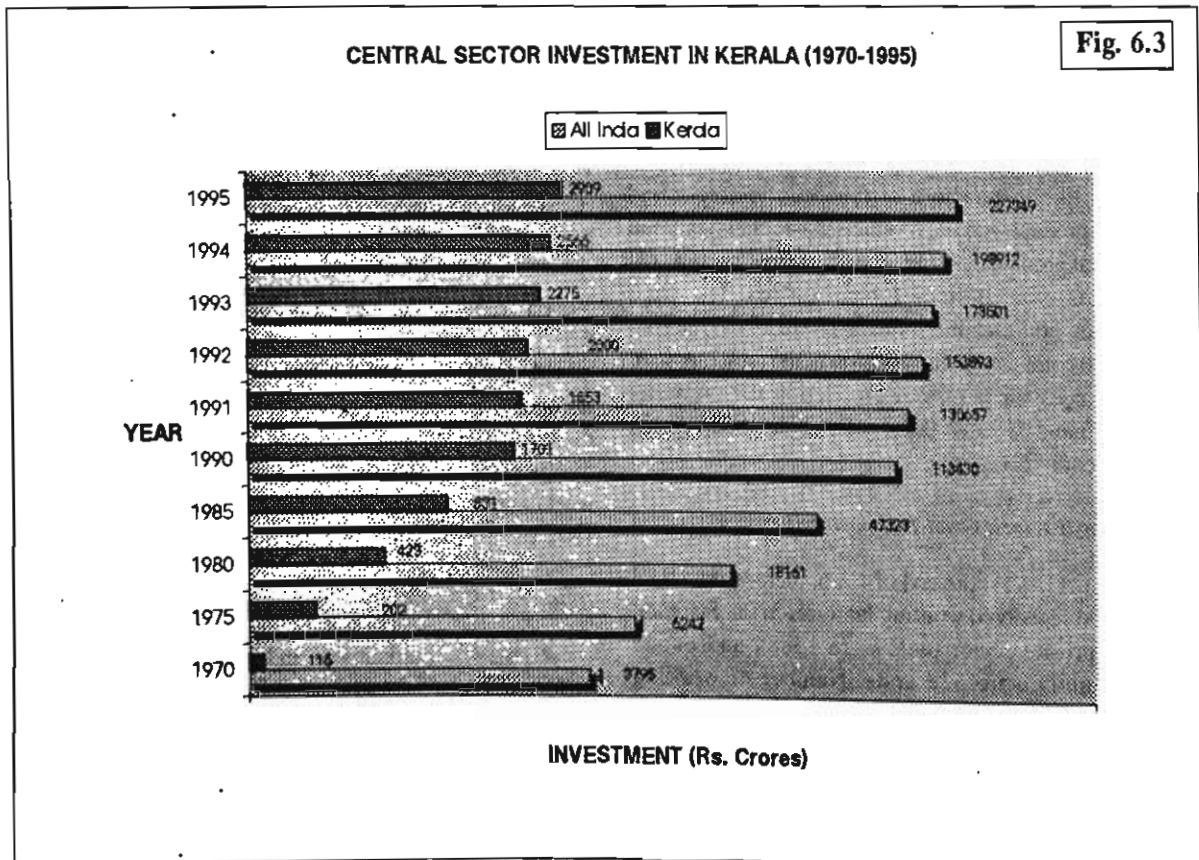
Central Sector Investment

6.14 A very disturbing phenomenon of recent years has been the sharp decline of Kerala in its share of Central Sector Investment, since 1975 Kerala's share has declined from 3.24 percent in 1975 to 1.28 percent in 1995. The Central Sector Investment in the State as on 31.3.95 was Rs.2906 crores (1.28 percent) while the total investment in the country as a whole was Rs.227348 crores (Fig. 6.3). There is a virtual absence of new industries established under central sector. Details of central Sector Investment in the country and Kerala at different intervals are given in Appendix 6.6

6.15 Nineteen Central Sector Industrial Undertakings including five textile mills under the management of the National Textile Corporation Ltd. are functioning in Kerala.

They are :

1. Cochin Refineries LTD., Emakulam
2. Cochin Shipyard Ltd., Ernakulam
3. Fertilisers and Chemicals, Travancore Ltd., Ernakulam.
4. Hindustan Newsprint Ltd., Kottayam.
5. Hindustan Latex Ltd., Trivandrum
6. Indian Rare Earths Ltd., Ernakulam and Kollam.
7. Indian Telephone Industries Ltd., Palakkad
8. Instrumentation Ltd., Palakkad
9. Hindustan Insecticides Ltd., Emakulam
10. Modern Food Industries (India) Ltd., Emakulam
11. H.M.T. Ltd., Emakulam
12. Balmer Lawrie & Co., Ltd., Alappuzha
13. Cochin Refineries Balmer Lawrie Ltd., Ernakulam.
14. Hindustan Organic Chemicals Ltd., Emakulam.



15. Cannore Spinnig and Weaving Mills
16. Vijayamohini Mills, Trivandrum.
17. Parvathi Mills, Kollam.
18. Kerala Lekshmi Mills, Thrissur.
19. Alagappa Textile (Cochin) Mills, Thrissur.

Relevant data on the Central Sector Industrial Undertakings in Kerala are furnished in Appendices 6.7 to 6.9

PUBLIC SECTOR MANUFACTURING INDUSTRIAL ENTERPRISES.

6.16 The number of state public sector manufacturing enterprises (PSMEs) under the administrative control of the Industries Department remained the same as 44 at the end of March 1997 as in the previous year. Of these, the paid up capital of 20 units is fully owned by Government of Kerala and in 24 units Government and its holding companies are holding majority of shares. Out of the above 44 companies, 29 companies have furnished details of their working results during 1996-97.

6.17 Out of the 20 fully Government owned companies, 15 have furnished details regarding their performance during 1996-97. The total capital invested by these 15 companies was Rs. 397.01 crores at the end of March 1997. The Kerala Electrical and Allied Engineering Company Ltd., Kerala Hitech Industries Ltd., Autokast Ltd., Steel Industrials Kerala Ltd. and Kerala Minerals and Metals Ltd., largely contributed to the total capital invested in respect of Government owned companies. The number of their employees increased from 7289 to 8454 during 1996-97. While the employment in these 15 units increased the total value of production declined substantially from Rs. 408.24 crores in 1995-96 to Rs. 252.51 crores during 1996-97. Details regarding capital invested, employment, value of production, sales turn over and capacity utilization in respect of Government owned companies are furnished in Appendices 6.10 to 6.12.

6.18 Out of 24 Government majority companies, only 14 have reported their performance during 1996-97. These 14 companies together had a total capital investment of Rs.218.46 crores in 1996-97. Their total employment registered an increase from 6439 in 1995-96 to 7881 in 1996-97. The Travancore-Cochin Chemicals Ltd, Cochin, TRACO Cable Company Ltd., Cochin, Transformers and Electricals Kerala Ltd., Angamaly, Keltron Component Complex Ltd., Kannur, and Keltron Counters Ltd, Thiruvananthapuram accounted for the major share in the total capital investment. Capital investment of the Travancore-Cochin Chemicals Ltd, Kochi increased substantially from Rs. 13.31 crores to Rs.65.54 crores. The aggregate value of production of the above 14 companies marked a slight decline

from Rs.379.26 crores in 1995-96 to Rs.352.52 crores in 1996-97. All of the companies except Keltron Counters Ltd., and Keltron Magnetics Ltd registered a decline in the total value of production. The total sales turn over of the above companies which stood at Rs. 386.29 crores in 1995-96 declined to Rs. 369.46 crores in 1996-97. TRACO Cable Company Ltd., Cochin and Transformers and Electricals, Kerala Ltd., Angamaly could register a reasonable hike in the sales turn over during the same period. Appendices 6.13, 6.14, and 6.15 respectively provide details on capital investment and employment, value of production and sales turn over, and capacity utilisation in the 14 Govt. majority companies in the State.

6.19 Among the 15 Government owned companies which have furnished details, the following seven units were the profit making ones in 1996-97.

| <i>Name of Companies</i> | <i>Profit (Rs. Lakhs)</i> |
|------------------------------------------------------|-------------------------------|
| 1. Malahar Cements | 792.52 |
| 2. Kerala Electrical and Allied Engineering Co. Ltd. | 11.94 |
| 3. Kerala Clays and Cermic Products | 31.46 |
| 4. Kerala Automobiles Ltd. | 16.38 |
| 5. Kerala Hitech Industries Ltd | 624.05 |
| 6. The Kerala Minerals & Metals Ltd | 253.62 |
| 7. Foam Mattings India Ltd | 166.59 |

6.20 In the case of the Govt. majority companies, out of the 14 reported, the following 9 have earned profit during 1996-97.

| <i>Name of companies</i> | <i>Profit (Rs. lakhs)</i> |
|---------------------------------------------|-------------------------------|
| 1. Forest Industries (Travancore) | 0.36 |
| 2. The Travancore Cements Ltd. | 123.00 |
| 3. Keltron Components Complex Ltd. | 9.48 |
| 4. Keltron Electro Ceramics Ltd. | 17.79 |
| 5. Transformers and Electricals Kerala Ltd. | 170.06 |
| 6. The Travancore-Cochin Chemicals Ltd. | 54.47 |
| 7. United Electrical Industries Ltd. | 43.37 |
| 8. Metropolitan Engineering Company Ltd. | 27.40 |
| 9. Traco Cable Company Ltd. | 29.96 |

6.21 The Public Sector Restructuring and Internal Audit Board has been entrusted with the task of preparation of project reports for the revival/restructuring/modernisation of sick public sector units. During 1996-97 an amount of Rs.100.17 crores was released for the revival/restructuring/diversification purpose of 24 units as detailed below.

| <i>Name of companies</i> | <i>Amount released (Rs. crores)</i> |
|----------------------------------------------------|-----------------------------------------|
| 1. Autokast Ltd. | 3.87 |
| 2. Kerala Automobiles | 0.43 |
| 3. Scooters Kerala Ltd. | 0.70 |
| 4. Steel Complex | 2.78 |
| 5. Steel Industrial Forgings | 1.77 |
| 6. Keltron | 10.00 |
| 7. Keltron Power devices | 1.60 |
| 8. Transformers & Electricals Kerala Ltd. | 5.00 |
| 9. Kerala Electricals & Allied Engineering Ltd. | 3.00 |
| 10. Kerala Soaps | 8.00 |
| 11. Travancore Plywoods | 3.55 |
| 12. Kerala State Drugs & Pharmaceuticals Ltd. | 6.22 |
| 13. Trivandrum Spinning Mills | 1.02 |
| 14. Kunnathara Textiles | 0.45 |
| 15. Kerala State Textile Corporation | 0.50 |
| 16. Forest Industries (Travancore) Ltd. | 0.50 |
| 17. Chalakkudi Refractories | 1.98 |
| 18. RIAB (Cost sharing to UNDP Project) | 0.30 |
| 19. Kerala State Cashew Development Corporation | 22.87 |
| 20. CAPEX | 8.26 |
| 21. Kerala State Coir Corporation | 1.50 |
| 22. COIRFED | 4.50 |
| 23. HANVEEV | 3.25 |
| 24. HANTEX | 8.32 |
| Total | 100.17 |

Groupwise details of all the public sector enterprises in Kerala are furnished in Appendix 6.16

JOINT STOCK COMPANIES

6.22 At the end of March 1997 there were 9410 Joint Stock Companies in Kerala consisting of 8176 private limited companies and 1234 public limited companies. A total of 1104 companies consisting of 1044 private limited and 60 public limited companies, were newly registered during 1996-97. At the same time, 20 private limited and public limited companies were either wound up or struck off or amalgamated during the year. One private limited company shifted to another state. The net addition to the total number of Joint Stock Companies in the State during 1996-97 was 1079, comprising of 1023 private limited and 56 public limited companies. No new government company was registered in the State during 1996-97 and the total number of Government companies in the State as on 31.3.1997

remained 105. The details of Joint Stock Companies in Kerala for the years 1995-96 and 1996-97 are furnished in Appendix 6.17.

SMALL SCALE INDUSTRIES

6.23 As on 31.3.1997, a total number of 160544 small scale industrial units were registered in the State. During 1996-97, 17421 SSI units were newly registered. This was all time record. In comparison the number of SSI units registered during 1995-96 was 16903 units. About 64660 new job opportunities were generated during the year. The investment increased from Rs.224.54 crores in 1995-96 to Rs.330.81 crores in 1996-97, representing a growth of 47.33 percent.

6.24 Of the total number of 17421 SSI units registered during 1996-97, 626 units were started by SC entrepreneurs, 72 by S.T. and 3238 units by women entrepreneurs. The district-wise performance shows that Emakulam district stands first with 12.78% of the total number of new SSI units registered during the year followed by Thiruvananthapuram (10.94%) and Thrissur (10%). These three districts accounted for about 33.76 percent of the total number of registered SSI units in the State. Wayanad, Idukki and Kasaragod districts accounted for the lowest number of new SSI units with only 7.20% of the total. Districtwise details of small scale industrial units registered in Kerala during the year 1996-97 are furnished in Appendix 6.18.

6.25 The cumulative number of SSI units registered in Kerala as on 31.3.1997 stood at 160544. Aggregate investment made by all these units amounted to Rs.1922.09 crores with an employment capacity 839596. The value of output by these units amounted to Rs.6330.11 crores. Out of 1,60,544 registered SSI units, 7963 units were promoted by SC/ST entrepreneurs and 25310 units were promoted by women entrepreneurs. District-wise details of registered Small Scale Units in Kerala as on 31.3.1997 are furnished in Appendix 6.19.

6.26 Units identified as sick numbered 3341 ie. 3.2% of the total number of registered units. Of these 935 units have already been revived. Only fourteen sick units were revived during 1996-97. The performance under sick unit rehabilitation was not satisfactory during the year 1996-97 owing to the lack of financial support forthcoming from banks and financial institutions. District-wise working status of Small Scale units as on 31.3.1997 are furnished in Appendix 6.20.

6.27 Under Entrepreneurship Development Programme a total of 1210 prospective entrepreneurs were trained during the year 1996-97, which included 139 S.C. entrepreneurs and 19 S.T. entrepreneurs. Of

the number trained, 85 beneficiaries have started new SSI units during the year 1996-97. Details of district-wise Entrepreneurship Development Programme conducted during 1996-97 are furnished in Appendix 6.21.

6.28 The achievement under PMRY scheme was satisfactory during the year 1996-97. Sanction under PMRY scheme has exceeded the target of 15000 beneficiaries during the year under report, and an amount of Rs. 8339.22 lakhs was sanctioned to 15099 persons during the year 1996-97, recording a growth of 12.12 percent and 5.31 percent respectively. Total disbursement also has indicated an upward trend recording a level of Rs. 5831.27 lakhs to 11156 beneficiaries during 1996-97, registering a growth rate of 7.42% and 8.54% respectively. District wise details of achievements under PMRY scheme during 1996-97 are given in Appendix 6.22

6.29 112 Industrial Co-operative Societies were registered during 1996-97, taking the cumulative figure to 2193. Out of the total 2193 societies, 344 societies were promoted by scheduled castes, 54 by Scheduled Tribes and 767 societies by women. Out of the 112 societies registered during 96-97 largest number was in Emakulam (33) followed by Alappuzha (22). Details of industrial co-operative societies in Kerala as on 30.6.97 is given in Appendix 6.23.

HANDLOOM INDUSTRY

6.30 Handloom industry occupies a prominent place among the traditional industries in the State by providing employment to 2 lakh persons directly. Most of the handloom development schemes are implemented through the primary handloom weavers, co-operative societies. The total number of handlooms in the State increased to 61589 as on March 1997 from 60509 during March 1996 registering an increase of 1.78 percent over the previous year. Out of the total number of handlooms in the state, the Co-operative sector accounted for 76.74%, Corporate sector 21.62 % and the private sector 1.64% respectively. Number of looms in the co-operative sector stood at 47265 as against 47204 in 1995. Number of co-operative societies recorded an increase to 753 in March 1997 from 735 in 1996. Out of this, 135 societies were factory type co-operative societies, and 618 were cottage type societies. Out of the total of 1335 factory type societies 111 were working, 17 were dormant, 2 were under liquidation and 5 had not started working. Again, out of the 618 cottage type societies, 466 were working, 60 were dormant, 77 were under liquidation and 15 were to start working as on March 1997. The corporate/unorganised/private sector together had 14324 looms, showing an increase of 1019 over the previous year.

6.31 The overall production of handloom cloth marked an increase from 89.82 million metres in 1995-96 to 94.93 million metres in 1996-97 registering a marginal increase of 4.61 million metres. Total value of production increased from Rs. 359.82 crores in 1995-96 to 370.58 crores in 1996-97 registering an increase of Rs. 10.76 crores over the previous year. The increase in productivity was from 1484 M/L/A to 1532 M/L/A*

6.32 The Production of handloom cloth in the Co-operative sector increased to 70.35 million metres as on March 1997 from 69.75 million metres. The value of production increased by Rs. 12.12 crores over the previous year's level of Rs. 289.57 crores during the year under report. The productivity of handloom cloth went up to 1161 MM/L** from 1153 MM/L in 1995-96. The number of weavers in the co-operative sector of the handloom industry is 104570. Employment generated in this sector during the year under review was 574 lakh mandays.

6.33 Production of handloom cloth in the corporate/unorganised/ private sector marked a rise from 20.07 million metres in 1995-96 to 24.01 million metres in 1996-97. Correspondingly the value of production rose from Rs. 65.09 crores to Rs.68.89 crores during the same period. Number of weavers in the sector increased from 7600 to 8205 during the period under report. The sector could generate 36 lakh mandays of employment during 1996-97. There were 65 handloom weavers' co-operative societies for scheduled castes and 20 for scheduled tribes. Out of this, 4 societies were registered during 1996-97.

6.34 There was a substantial increase in releasing rebate on the sale of handloom cloth during 1996-97. The release recorded an all time high of Rs. 1000.07 lakhs during this period as against Rs. 150 lakhs in 1996-97. The value of unsold stock in 1996-97 accounted to Rs. 37.65 crores while it was Rs. 32.42 lakhs in 1995-96. Production and productivity under Handloom Industry in Kerala during 1995-96 and 1996-97 are given in Appendix 6.24.

6.35 Procurement and distribution of handloom fabrics in the State are being under taken by two state level organisations viz. Hantex and Hanveev. The Kerala State Handloom Weavers' Co-operative Society established in 1961, is the apex marketing organisation with a commercial brand name of "HANTEX". Main objectives of the society include distribution of required inputs, procurement, processing of goods produced by the member societies, marketing of products, etc. The primary societies (members) under Hantex increased from 428 to 435 during 1996-97 while paid up share capital went up from Rs.783.06 lakhs in 1995-96 to Rs. 924 lakhs in 1996-97. The Hantex markets finished

* M/L/A. Metre/ Loom / Annum

** Million Metre per Loom

products collected from its members through its 182 sales depots including agency depots and depots outside the state. Total production of cloth during the year was 6.96 lakh metres with a total value of Rs.201 lakhs. Total sales turnover of Hantex recorded a marginal increase from Rs.26.15 crores to Rs.26.83 crores during the same period.

6.36 Hantex had participated and conducted exhibitions within and outside the state. During the year under review, Hantex undertaken construction of central godown at Palakkad and Thrissur with NCDC assistance. The Malabar warping and spinning industrial co-operative society Kannur was purchased during the year.

6.37 During the year under report, Hantex had opened a readymade garment unit at Wayand for giving employment to the tribal women with State Government assistance. During this period, sanction was received for implementing 43 projects under the project package scheme, out of which seven projects were implemented with assistance from Central and State Governments. The working results of Hantex are given in Appendix 6.25.

6.38 The Kerala State Handloom Development Corporation (Hanveev) which started functioning in 1968, is an agency for the development of handlooms, outside the co-operative fold. The Corporation had 32 clusters registered with it. Even though the licensed capacity is 6500 individual weavers (registered) the actual utilisation was below 25%. The number of active weavers dwindled year after year. But during 1996-97, a positive change could be noticed. The number of effective weavers showed an increase from 1400 in 1995-96 to 1550 in 1996-97. Corresponding change in production registered was from 15 lakh metres to 17 lakh metres, value of the products increasing from Rs.492 lakhs to Rs. 566 lakhs during the same period. This improved performance is attributed to the various benefits now extended to weavers such as assistance to widen looms and its modernisation, purchase of accessories, workshed, health package scheme etc. As part of measures for activating the Corporation, Government have issued an order allowing purchase of fabrics and other textile items from Hanveev, without inviting tenders by Government depots and Public Sector Undertakings. However, the accumulated loss of Hanveev increased from Rs.521 lakhs to Rs. 571.27 lakhs during this period.

6.39 The total paid up capital of Hanveev was Rs.637.20 lakhs as on March 1997 as against Rs.499.70 lakhs in 1995-96. The total sales turnover of the Corporation stood at Rs. 1137.15 lakhs showing an increase of Rs.169.81 lakhs over the previous year. The Corporation had 78 sales outlets including agency

showrooms and seven mobile sales vans for marketing of finished products. The Corporation was running a processing house at Chirakkal and a dye house at Kallissery in Kannur District. A dyeing cum warping unit started functioning in Chittoor in Palakkad District, with financial assistance from Government of India under the Integrated Handloom Village Development Project. During the year under report, the Corporation incurred a loss of Rs.50.27 lakhs. The working results of the Corporation is given in Appendix 6.26

6.40 The Kerala Garments Limited, a subsidiary of Kerala State Handloom Development Corporation Ltd. employing 318 persons, has an installed capacity of 3 lakh numbers of garments per year and have produced 2.3 lakh nos. during the year 1996-97 as against 1.81 lakh nos. in 1995-96. The capacity utilisation comes to 79% of the installed capacity. The company could sell garments in the local market to the tune of Rs.61.23 lakhs. The turnover increased from Rs.128 lakhs to Rs.145 lakhs. However the company has been running on loss and the accumulated loss increased to Rs.18.84 lakhs in 1996-97 from Rs.14.85 lakhs in the previous year. Production and productivity under powerloom industry also, are furnished in Appendix 6.27.

COIR INDUSTRY

6.41 Kerala has a virtual monopoly in the production of white fibre (retted fibre), which is estimated at 1,27,000 tonnes per annum, used for the manufacture of mats, mattings, etc. The production of brown fibre in the State is approximately, 1,35,000 tonnes per annum. Coir industry ranks first among the traditional industries of the State, providing employment to about 4 lakh people belonging to about 2.12 lakh households all along the coastal belt of Thiruvananthapuram, Kollam, Alappuzha and Emakulam Districts. Manufacturing establishments are located in Cherthala and Ambalappuzha Taluks of Alappuzha district. The spinning sector accounts for over 3.5 lakh workers. The share of product sector in the work force is only about 30,000. Out of the total coir workers, 84% are women. Eventhough Kerala is ahead in terms of quantity and quality of coir products, of late other coconut producing states like Tamilnadu, Kamataka and Andhra Pradesh have also established production units and are progressing at a faster rate with the introduction of mechanisation and also the efforts of the Coir Board. About 35% of coir yarn and 90% of coir products of the country are produced in the state.

6.42 The environmental consciousness in foreign countries had led to spurt in demand for coir and coir products resulting in steady increase in export from 1990-91 to 1995-96 as can be seen from the

in 1996-97 as against 70334 metric tonnes valued at Rs.1240.50 crores during the previous year. The foreign exchange earnings increased from Rs.481.87 crores in 1995-96 to Rs.642.45 crores in 1996-97. A total quantity of 1350 M.T. of cashewnut shell liquid was exported, valued at Rs.1.96 crores. Among the agricultural products exported from India during the year, cashew was placed in 3rd in the list.

6.51 The major markets for the Indian cashew kernels during 1996-97 were USA, Netherlands, Japan, UK, Australia, UAE, Hongkong, France, Saudi Arabia, Germany and Israel. For cashewnut shell liquid Japan, UK, Indonesia and Korean Republic were the major markets during the year under report. The details on export, import and foreign exchange earned during the period are given in Appendices 6.31 and 6.32.

6.52 The Cashew Workers Apex Co-operative Society (Capex) and the Kerala State Cashew Development Corporation are the major governmental agencies engaged in the development of cashew industry in Kerala. The Cashew Export Promotion Council has also an office at Cochin. The CAPEX is registered with an objective of providing maximum number of workdays to cashew workers. It has 10 factories, providing employment to 6000 persons including factory staff during 1996-97. During this year since there was no monopoly procurement, raw nuts had to be purchased from open market. The procurement of rawnuts decreased from 6257.87 tonnes in 1995-96 to 1868.74 tonnes in 1996-97. The export earnings of CAPEX recorded a sharp decline from Rs.26.49 crores in 1995-96 to Rs. 6.53 crores in 1996-97. The working results of CAPEX are given in Appendix 6.33.

6.53 The Kerala State Cashew Development Corporation's main activities include processing of raw cashewnuts into kernels and export. The Corporation is managing 34 cashew factories. Total number of workers in these factories increased to 23069 in 96-97 from 23053 in 1995-96. The installed capacity of the corporation as at the end of March 1997 is 12000 M.T. of cashew kernels and 6000 M.T. of cashewnut shell liquid and 900 M.T. of Tannin. The Corporation is unable to work to its full capacity due to the scarcity of raw cashew nuts. Production of cashew kernels was 2001.63 MT valued at 31.46 crores during the year under report as against a production of 661.05 MT valued at 10.39 crores in the previous year. It marked an increase of 1340.57 M.T. in production and Rs.21.07 crores in value.

6.54 The total sales turn over of the Corporation increased substantially from Rs.12.11 crores in 1995-96 to Rs.19.14 crores in 1996-97. Also, the corporation earned a total income of Rs.44.83 crores as against Rs.14.76 crores during the previous

year. The provisional accounts for the Corporation showed a decline in net loss to Rs.7.91 crores during 1996-97 as against Rs.10.80 crores during 1995-96. The reasons attributed for continuing substantial losses are non-availability of raw materials and working capital shortage. But obviously urgent steps are needed to restore the financial health of the Corporation.

KHADI AND VILLAGE INDUSTRIES (KVI)

6.55 KVI Board is the main agency for organising, developing and promoting khadi and village industries in the State. The Board is extending assistance to individual entrepreneurs, co-operative societies as well as charitable institutions for undertaking activities promoted by the Board. The Board receives funds from the KVI Commission at the Centre and State Government in loans and grants for various developmental programmes. From 1995-96 KVI Commission has been sanctioning funds under Consortium Bank Credit Scheme under which loans to individuals upto Rs.10 lakhs and co-operative societies/charitable institutions upto Rs.25 lakhs are given on the basis of their projects.

6.56 During 1996-97 KVI Commission sanctioned an amount of Rs.33.08 crores. Till the end of November 1997 an amount of Rs.25.95 crores has been disbursed to 944 beneficiaries/units by the Board which was expected to provide employment to around 5000 persons. So far 2006 co-operative societies, 2035 registered institutions and 14184 individual artisans have been assisted by the Board. Besides, the Board runs 412 departmental units. During 1996-97 alone the Board financed 49 co-operative societies, 37 registered institutions and 211 individual artisans. Assistance was extended for the construction of seven Khadi production centres also.

6.57 The State Government have appointed Khadi Board as a nodal agency for the implementation of Margin Money Scheme launched by KVIC. There are three types of projects under this scheme as state level, district level and block level. Margin money is released by the Board to the banks for the loan availed from various financial institutions. The rate of margin money is 25% of the cost of the project for the scheme upto Rs.10 lakhs 10 % of the projects above Rs.10 lakhs but below Rs.25 lakhs. Individuals can submit projects and upto Rs.10 lakhs and Institutions upto Rs.25 lakhs. During 1996-97, it was expected to create employment to around 6500 persons under this scheme for which KVIC sanctioned Rs. 6.70 crores.

6.58 Under Interest Subsidy Scheme the Board has recommended 148 applications worth Rs.8.10 crores and subsidy has been released to 288 units during 1996-97. Revitalisation grant has been

released to 36 village industries under the Board. Three defunct khadi production centres have been revived. The Board has also extended supplementary grant for construction of building to 38 units, during the year. Under Special Component Plan and Tribal Sub Plan 426 Scheduled Caste families and 680 Scheduled Tribe families were assisted by the Board under various schemes.

6.59 The total value of products manufactured by Khadi and Village industries in Kerala increased to Rs.135.07 crores during 1996-97 from the previous year's level of Rs.128.56 crores, registering a modest growth of 5.06%. The industries contributing to this production are units making cottage matches, leather products, potteries, lime, carpentry and blacksmithy. These units together account for more than 55% of the total value. The total employment in this sector provided during 1996-97 was 4996. The details of value of production, sales turnover, employment and wages paid in the khadi and village industries are shown in Appendix 6.34. The total number of sales outlets functioning in the State during 1996-97 was 132 with a total turnover of Rs.5.34 crores. Among them Payyannur Khadi Centre, Kannur alone sold Khadi products worth of Rs.2 crores, followed by Kozhikode (Rs.0.8 crore) and Thiruvananthapuram (0.6 crore)

HANDICRAFTS INDUSTRY

6.60 Handicrafts Industry is a major traditional industry of Kerala which contributes much to the State's economy in terms of employment and export.

6.61 Agencies engaged in the promotion of handicrafts industry include Handicrafts Co-operative Apex Society (SURABHI), 'Artisans' Development Corporation, Bamboo Corporation and Handicrafts Development Corporation. SURABHI is the apex society for 102 primary handicrafts societies. Marketing of the products of the primary societies and in certain cases, supply of raw materials to them are done by this apex society. The total sales turnover of the Apex Society for 1994-95 and 1995-96 amounted to Rs.228.09 lakhs and Rs.244.13 lakhs respectively. The net loss of the society decreased from Rs.10.86 lakhs in 1994-95 to Rs.4.45 lakhs in 1995-96. It has a number of sales emporia throughout the State and one emporium each at Calcutta, Chennai, Madurai and Bangalore.

6.62 The Handicrafts Development Corporation has improved its sales turnover to Rs.833.93 lakhs from Rs.753.87 lakhs in 1995-96. Considering the potential of the domestic market, the Corporation has conducted exhibitions at 14 centres within the state and at 3 centres outside the state. The Corporation is also extending services to the artisans

by supplying them raw materials on 25% subsidy. During 1996-97 the corporation has supplied raw materials worth Rs.35.00 lakhs to artisans. Further, as part of market development programmes the Corporation has proposed to open new emporia at all district head quarters and in other potential areas within the State. A provision of Rs.1 crore was made towards a revolving fund to enable the corporation to purchase handicrafts from craftsmen and build buffer stocks of articles in order to rescue them from the clutches of private handicrafts dealers. About 5000 artisans come under this scheme as direct beneficiaries. The Corporation has already started one souvenir work centre exclusively for making souvenirs and mementos.

6.63 The State Government has sanctioned a sum of Rs.66.50 lakhs towards capital investment for the various projects of the Corporation. The projects which are under various stages of implementation include the opening of new export showrooms and exhibition centre at head office compound, craft development centre at Veli Tourist Village, mechanisation of common facility service centre and the installation of wood seasoning plant under the UNDP Scheme.

6.64 The Kerala Artisans' Development Corporation (KADCO) finances the primary production units of traditional artisans with the funds of National Backward Classes Finance and Development Corporation (NBCFDC) and arranges marketing facilities. The Corporation conducted 22 trade fairs during 1996-97 and earned a sales turnover of Rs.80 lakhs. It has set up two marketing centres at Ernakulam and Kollam and proposes to set up two more centres at Kozhikode and Thiruvananthapuram.

6.65 The main activities of the Kerala State Bamboo Corporation include extraction of reeds from the forests, supply of reeds to traditional workers, procurement and marketing of bamboo products from the workers and direct production and marketing of bamboo products. The total value of items produced by the Corporation during 1996-97 amounted to Rs.956.55 lakhs against Rs.852.69 lakhs in 1995-96. The overall performance of the Corporation was satisfactory and the total sales turnover during the period amounted to Rs.886.36 lakhs.

SERICULTURE

6.66 Realising the potential for sericulture in the State, the target during the Eighth Plan period was to bring 50,000 acres under mulberry cultivation with an ultimate aim of creating employment opportunities for 2.5 lakh persons. But this target could not be achieved due to various reasons. The Kerala State Sericulture Co-operative Federation Limited (SERIFED) was set up in the year 1994 to concentrate

on sericulture development programmes. The area under mulberry has reportedly increased from 1476 acres during 1996-97 to 2776 acres in 1997-98 and the number of farmers engaged in this industry also increased from 2038 to 4225. The progress of sericulture development programme of the State during 1996-97 and 1997-98 are given in Appendix 6.35. The most important feature of Kerala sericulture is that through cocoon productivity is low (about 178 kg/acre/ year) cocoon output is comparatively high. Capability of Kerala to produce high quality bivoltine cocoons is considered as a strength. In the 9th plan, stress has been placed on producing bivoltine cocoons in selected areas.

6.67 At present, the district offices of SERIFED are functioning as cocoon purchase centres. There are four silk reeling units, two in the state sector (Pattanakkad and Uduma) and two in the private sector (Mithranikethan and Puthusseri). One Demonstration cum Training Centre is also functioning at Palakkad under the control of Central Silk Board. Action has already been taken to affiliate primary co-operative societies. During 1997-98, 92 societies have been given affiliation.

INDUSTRIAL PROMOTION AGENCIES

6.68 Various Promotional Institutions have been set up by the government for assisting the units working under the industries sector by providing infrastructure/technical/training/financial assistance. Main agencies include Kerala State Industrial Development Corporation (KSIDC), Kerala State Financial Corporation (KFC), Kerala State Infrastructure Development Corporation (KINFRA), Kerala State Electronics Technology Park (TECHNOPARK), Small Industries Development Corporation (SIDCO) Small Industries Service Institute (SISI) etc. The varying activities of these organisations are summarised below:

(a) Kerala State Industrial Development Corporation Limited (KSIDC)

6.69 KSIDC has been functioning since 1961 with the main objective of organising, stimulating and assisting industrial development of the state. The Corporation continues to engage in promoting, financing and developing large and medium industries in the state apart from assisting Government in effecting its policies and programmes in augmenting industrial investment in the state. The State Government extends financial assistance to the Corporation by way of share capital and loan. During 1996-97 the Corporation completed 49 projects involving a total cost of Rs.184.34 crores and having direct employment potential of 3575 persons. The

corporation took investment decisions for 55 projects worth about Rs.586.08 crores having an estimated direct employment potential of 4381 persons. Memoranda of Understanding (MOUs) with private parties were signed for developing and establishing 54 projects having a total investment of Rs.5437 crores. As at the end of March 1997, as many as 112 projects with an aggregate cost of Rs.707 crores were under various stages of implementation. It is expected that these projects, when completed would provide employment opportunities to 8003 persons.

6.70 The total financial sanctions by KSIDC comprising share capital contributions and loans to various industries amounted to Rs.94.70 crores and disbursements totalled to Rs.63.82 crores. The Corporation's total recovery of principal and interest on loans from assisted units amounted to Rs.45.09 crores as against Rs.34.26 crores during 1995-96. The particulars of the physical and financial performance of the Corporation from 1993-94 to 1996-9 are furnished in Appendix-6.36.

6.71 In the Joint Sector 37 projects have been completed and commissioned with financial and promotional assistance of the Corporation. The Corporation's share holding in as many as 22 companies have since been partly/fully disinvested. Thus at present there are only 15 companies on the Joint Sector roll of the Corporation with its share holding amounting to 26 per cent. During 1996-97 the Corporation showed a net profit of Rs.922.78 lakhs as against Rs.631.21 lakhs in the previous year.

(b) Kerala Financial Corporation (KFC)

6.72 The main objective of KFC is to support and promote industrialisation by providing term loans to small and medium scale industries in the state. The Corporation received 3310 applications for Rs.248.67 crores during 1996-97 as against 2653 applications for Rs.288.05 crores during 1995-96. The total sanctions during the year amounted to Rs.215.50 crores to 3065 units as against Rs.237.29 crores to 2404 clients of the previous year. The net effective sanction during the year was Rs.191.75 crores against Rs.227.80 crores in 1995-96. The cumulative effective sanction by the corporation as at the end of March 1997 amounted to Rs.1148 crores. The Corporation disbursed Rs.188.61 crores to 2718 units as against Rs.139.75 crores to 2075 units in 1995-96 representing 34% increase. As regards recovery the total arrears as on 1.4.1996, was Rs.195.03 crores which, with the demand in 1996-97 increased to give a collectable demand of Rs.367.12 crores. Against this, the recoveries amounted to Rs.157.35 crores representing 42.86% of the collectable demand. A summary statement highlighting the operations of KFC is furnished in Appendix 6.37.

6.73 The Corporation continued to give top priority to units in industrially backward areas in the State in the sanction and disbursement of loan. Out of a total of Rs.188.61 crores disbursed to 2718 units in 1996-97, an amount of Rs.83.65 crores (44%) was disbursed to 1261 units in backward districts. The details of district-wise disbursement of loan by KFC during the year 1996-97 is given in Appendix 6.38.

6.74 The net effective sanction to small scale units amounted to Rs.72.83 crores to 971 units during 1996-97, while the amount disbursed to the small scale sector for the year was Rs.91.12 crores to 933 units. The cumulative disbursement to the small scale units worked out to Rs.557.32 crores to 15645 units. The cumulative loan sanctioned (Net) to small scale industries was Rs.666.26 crores to 15755 units as against the total sanction of Rs.1148.54 crores to 25170 units. The disbursement of loans to small scale industries amounted to Rs.557.32 crores to 15645 units, out of the total disbursement of Rs.926.06 crores to 24297 units. This shows that the small scale sector received 58% of the total amount sanctioned and 60 per cent of the total amount disbursed since its inception.

6.75 The details of industry-wise classification of loan sanctioned and disbursed by the corporation as on 31.3.1997, is given in Appendix 6.39. Rubber products constitute the largest segment which received 8.69% of the total effective sanctions. The sector-wise analysis indicates that growth was widespread covering almost all the industries.

6.76 The State Government continued to give much needed financial support to KFC. The Govt's subscription to KFC's share capital for the year 1996-97 amounted to Rs.1200 lakhs so that the Government now holds 80.92% of the paid up share capital of the corporation. Progress of the working of Kerala Financial Corporation for the years 1991-92 to 1996-97 is reported in Appendix 6.40.

(c) Kerala Industrial Infrastructure Development Corporation (KINFRA)

6.77 KINFRA was set up in 1993 with the main objective of providing infrastructure facilities for industrial growth. The Corporation has been undertaking development of Industrial Parks at various locations. During 1996-97 KINFRA continued to implement the following projects with a total cost of Rs.73.41 crores.

1. Export Promotion Industrial Park Kakkanad, Ernakulam.
2. KINFRA - International Apparel Park, Menamkulam, Thiruvananthapuram.

3. Techno Industrial Park, near Calicut University, Malappuram.
4. Integrated Infrastructure Development Centre, Menamkulam, Thiruvananthapuram.
5. Integrated Industrial Township, Palakkad.

6.78 An extent of 180 acres of land has been acquired for the Export Promotion Industrial Park, Kakkanad and land development works are in progress. For the International Apparel Park, Menamkulam and Integrated Infrastructure Development Centre, Thiruvananthapuram a total of 80.05 acres of land have been taken possession of and land development works started. An extent of 70 acres of land has been transferred for Techno Industrial Park, Near Calicut University. For Integrated Industrial Township Palakkad, land acquisition process has been completed for 735 acres of land. An amount of Rs.16.94 crores was spent by KINFRA during 1996-97 for the implementation of the various projects.

(d) Electronics Technology Parks, Kerala (Technopark)

6.78 Technopark was formed in 1990 exclusively for the development of electronics and software industries. Till 1996, Technopark constructed industrial modules of 60,000 sq. feet and was fully occupied by various units. A new building with 4,00,000 sq. ft. was constructed and inaugurated in April '97. It is expected that the building will be fully occupied by the end of 1998. So far, 29 companies have come forward to set up units in the campus. Of these, 19 companies are already in production. Another four companies will go into production before the end of March 1998. A list of companies in Technopark and their activities are given in Appendix 6.41. In addition to built up space for industrial modules, a Park Centre and Satellite Earth Station were put up in the campus in 1996. A significant infrastructure facility is on the anvil with support from Government of India in the form of an Innovation Centre which will form part of the Electronics Niketanam of the Government of India. The Technopark proposes to start two collaborative programmes. The first one with Swedish International Development Agency is targeted towards building up facilities between Indian and Swedish companies for addressing European Markets. The second programme is organised by UNIDO and funded by Italian Government. These two programmes will be held by Technopark to develop global markets. The Earth station in Technopark is arranged and operated by the Central Government Software Technology Park (STP) based in Thiruvananthapuram. In the complex run directly by STP in Thiruvananthapuram city, 17

small software firms are operating with uplinking resource provided through the Earthstation.

(e) Kerala Small Industries Development Corporation (SIDCO)

6.80. The major activities of SIDCO include raw material distribution, marketing assistance to registered SSI units in the state, execution of civil works for infrastructure development on behalf of Industries Department and other organisations and management of 17 major industrial estates and 36 mini industrial estates all over the state. To manage these activities SIDCO has the Raw Material Division which caters to the raw material needs of small scale sector in Kerala especially that of iron and steel, pig iron, wax, Titanium Dioxide etc. SIDCO procures and distributes various raw materials to registered SSI units in the state through its raw material depots in each district.

6.81 During 1996-97 SIDCO assisted 1591 SSI units for procurement of raw materials against 2475 units of the previous year. An estimated 13.73 thousand tonnes of raw materials were distributed to small scale units by SIDCO against 16.78 thousand tonnes of the same during the year 95-96. The marketing division helps in selling and distribution of the products manufactured by small scale industries in Kerala through its sales emporia in Kannur, Kozhikode, Ernakulam, Kottayam and Thiruvananthapuram and through marketing centres located in other districts. Besides, this Division participates in tenders floated by Government Departments and other PSUs and on getting the tenders confirmed the orders are passed on to the registered SSI units. During the year 1996-97, 130 small scale industrial units were assisted in marketing of products against 126 units of the previous year and the value of products marketed through SIDCO amounted to Rs.408 lakhs during 1996-97 against Rs.286 lakhs obtained during the previous year.

f) Small Industries Service Institute (SISI)

6.82 The main objective of SISI Thrissur is providing Techno-economic and Managerial consultancy services to the existing and prospective small scale industries in Kerala and the Union Territory of Lakshadweep. It undertakes promotional and developmental activities for the Small Scale Industries Sector and imparts various types of training.

6.83 During the year 1996-97 the Institute undertook a total of 460 job works and provided common facility services to 268 small scale units. The Institute earned a revenue of Rs.3.21 lakhs by way of service charges, consultancy charges and sale proceeds of technical literature. Under the export promotion programme the institute assisted 19 SSI units by providing export related information to

facilitate entry into the export trade. Further, assistance to SC/ST and women entrepreneurs was offered by the institute on most of its activities. A comprehensive statement of technical assistance provided to existing and prospective entrepreneurs during the year 1996-97 is given in Appendix 6.42.

INFORMATION TECHNOLOGY

6.84 Information Technology is the world's fastest growing industry, which contributes much to the redistribution of wealth through the creation of large scale employment. The industry is of particular significance to Kerala since our resources endowment especially the educated manpower, is very well matched with the needs of the industry. Internet is becoming widespread and popular at a fast pace and electronic commerce is going to be the way the world will do business in future. In India also the industry is expanding at a fast pace. Between 1990 and 1995, software manufacturing expanded at the rate of 46% per annum. The industry already employs 1.4 lakh persons.

6.85 Recognising the emerging trend, its extreme importance, the Kerala Government is also in the process of putting in position a plan for garnering the benefits of this fast expanding technology. Steps have already been initiated to formulate an Information Technology policy for the State for which a Core Committee has been constituted. Special programmes have also been finalised for providing IT inputs in Government and for strengthening the people's plan campaign. A pilot project for a state level informatics system for strengthening the people's planning process and decentralised plan implementation has also been initiated. Apart from this, the TECHNOPARK has been set up at Thiruvananthapuram to provide infrastructure and environment for attracting electronics and software manufacturing companies to Kerala. Out of the 21 companies already registered, 19 companies are in the field of software and employ around 2000 persons. At the Software Technology Park in Thiruvananthapuram city, 17 companies are registered employing around 500 persons. The State Government is proposing to expand the coverage of the software Technology Park to other parts of the state, starting with Ernakulam and followed by Kozhikode and Kannur.

MINING

6.86 Development and exploration of mineral resources in Kerala are being undertaken mainly by the two state level agencies viz. Department of Mining and Geology and the Kerala State Mineral Development Corporation Ltd. (KEMDEL). The Department of Mining and Geology has two Divisions

- Exploratory and Prospecting Division and Mineral Development and Mining leases Division. The former division deals with exploration of minerals and the latter is connected with regulation of mining and movement of minerals. The major items of work undertaken by the department include the investigation for Kaolinitic clay at Chathannur in Kollam District, Melthonnakkal in Thiruvananthapuram District, limeshell in R-block of Vembanad lake in Alappuzha district, gemstones in Kulathupuzha-Kallada rivers in Kollam district etc.

6.87 During 1996-97, detailed surveys were conducted by the department in various parts of the State for identifying various items of minerals. The Department has found five lakh tonnes of high quality china clay having 10 metres thickness in an area of 0.16 sq.kms near Vellur in Sasthavattom area of Thiruvananthapuram district. A lignite deposit having cumulative thickness of 3.5 metres in an area of 0.25 sq.km. was also found in Kasaragode District. Another reserve of 0.3 lakh tonnes of limeshell was found in an area of 0.3 sq.km. in Vembanad lake. Detailed studies are being conducted on the deposits of Corundum found at Chanapara near Peravoor in Kannur District.

6.88 There were 98 mining leases for major minerals and 353 quarrying leases for minor minerals in force during 1996-97. By the end of December 1997, the number of mining leases and quarrying leases had increased to 106 and 375 respectively and had generated employment opportunities for about 1500 persons.

**Total area covered by mining leases
(mineral-wise) is given below**

| Minerals | area (in ha) |
|--------------|--------------|
| China Clay | 101.14 |
| Silica sand | 36.41 |
| Mineral sand | 219.84 |

| | |
|------------|---------|
| Lime shell | 1232.55 |
| Limestone | 247.50 |
| Quartz | 4.93 |
| Bauxite | 0.65 |
| Graphite | 0.59 |
| Magnesite | 0.80 |

6.89 The Department collected revenue of Rs.560 lakhs in 1996-97. It also opened various district-level offices at Pathanamthitta, Kottayam, Idukki, Thrissur, Malappuram and Wayanad by the middle of 1997. The production and revenue collection of various mineral items are given in Appendices 6.43 to 6.45.

6.90 The Kerala Mineral Development Corporation (KEMDEL) is functioning as a nodal agency for the development of the mineral resources of the State though detailed investigation/exploration, mining and processing, including value addition and marketing. This is sought to be achieved through promotion of development of mineral projects either by KEMDEL itself or through setting up of joint ventures with public/private sector, including also induction of foreign technical collaboration and investment, wherever essential.

6.91 During 1996-97 the activities of KEMDEL were mainly related to the preparation of project reports for the Madai Lignite and China Clay deposits in Kannur District. It reveals the potentiality for the mineable reserves of 5.40 million tonnes of lignite and 17 million tonnes of China Clay in the said area. Development of the project through establishing a joint venture with Gujarat Mineral Development Corporation Limited was proposed for which MOU was signed between KEMDEL and GMDC in November 1995. A proposal for the exploration of gold field in Wayanad with foreign investment and technology is under examination.

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TRANSPORT AND COMMUNICATIONS

Transport and Communications play a vital role in the development of infrastructure facilities for economic development. The total outlay for Road Development, Road Transport, Inland Water Transport and Ports and Light Houses was Rs.433 crores during the VIII plan and the expenditure worked out to Rs.579 crores.

7.2 Of the three components surface transport, road transport, rail transport and inland water transport, Kerala currently depends mainly upon the first two transport systems for passenger and goods traffic. Ports are also utilised for cargo traffic. There is however tremendous scope for development of the inland water transport systems of the State.

7.3 During 8th Plan, the total length of roads increased from 1.25 lakh kms to 1.45 lakh kms. Out of the total road length of 1.45 lakh kms only 16 per cent comprised of National Highways and PWD roads. Although average road length of the State is 3.74 kms per sq.km which is higher than the all India average, this figure is somewhat illusory. The approach towards road development in future has to aim at improving the quality of roads rather than increasing road length.

7.4 The number of vehicles in the State stood at 13,28,619 during 1997 as against 11,70,241 in the preceding year, thereby registering an increase of 13.5 per cent. Two wheelers constituted 53% of the total vehicle population, and cars and station wagons 22%.

7.5 Congestion on roads and their poor maintainance have led to increasing road accidents in Kerala. However, road accidents come down by 6.5% during the year 1996-97, compared to an increase of 2.9% in the previous year. It is interesting to note that the decline in road accidents has been noticeable in the three districts with the three biggest urban conglomerations.

7.6 While there has been no change in the route length of railways in the State, substantial developments were underway in the field of Air Transport. The works on Cochin International Air Port is progressing at a fast pace. Also a new airport at Kannur is envisaged.

7.7 During 1996-97 five new post offices were opened in the State. The area coverage per post office came down from 7.73 sq.kms. to 7.72 sq.kms.

7.8 There were significant developments in the field of telecommunications. Equipped capacity was enhanced by 31% during 1996-97 through the introduction of 28 new telephone exchanges and by giving 1,72,775 new telephone connections. The number of phone connections in the State increased by 25.4% during 1996-97.

7.9 Major indicators of development of transport sector and details of roads maintained by different agencies are given in appendices 7.1&7.2.

ROADS

7.10 P.W.D roads are classified into four categories, viz. State Highways, Major District Roads, Other District Roads and Village Roads. District-wise length of roads under these categories are given in Appendix 7.3. Length of roads added to P.W.D. roads is given in Appendix - 7.4. Out of the 22,273 kms. of P.W.D. roads, 88% of roads are black-topped. Details of surface-wise length of roads in different districts are appended (See Appendix - 7.5). On these P.W.D. Roads there are 1807 bridges and 44772 culverts. Out of this it has been found that 86 bridges and 1124 culverts are not in safe conditions. Number of bridges and culverts in the different categories of roads are detailed in Appendix - 7.5.

ROAD TRANSPORT

7.11 Motor Vehicles Department, Kerala State Road Transport Corporation and Kerala Transport Development Finance Corporation are the three agencies which regulate the transport activities along roads.

(i) Motor Vehicles Department

7.12 Motor Vehicles Department is one of the major revenue earning departments in the State. Total number of motor vehicles having valid registration as on 31st March 1997 stood at 13,28,619 (provisional) as against 11,70,241 vehicles during the previous year, thereby registering an increase of 13.5%. The highest vehicle population was recorded in Emakulam district followed by Thiruvananthapuram. Wayanad has the lowest number of vehicles. But in the matter of number of vehicles, Kottayam ranked first with a growth of 18.1% and Thiruvananthapuram was last with a growth rate of only 4.3%. The growth rate of vehicles in different districts as ranked can be seen in appendix 7.7.

7.13 Out of the total number of Motor vehicles, about 53% are two wheelers followed by cars and station wagons, with a contribution of 22%. Two wheelers have registered the highest growth rate; with increase of 18.2%. Category wise growth rate of motor vehicles since 1975 is presented in Appendix - 7.8. District - wise details of motor vehicles and their index are given in Appendix - 7.9. As can be seen from the appendix, 1,70,353 new vehicles were registered during the year under review. Districtwise statistics of newly registered vehicles are given in Appendix 7.10.

Road accidents

7.14 Road accidents in Kerala have shown a decline of 6.5% during 1996-97 over the previous year. Number of road accidents in 1996-97 was 34,702 as against 37,123 in the previous year. The number of road accidents, number of persons injured and killed in road accidents were the highest in Emakulam District. Bus accidents constituted the largest number (21.72%) followed by two wheelers (21.23%) and autorickshaws (19.22%). It has been reported that more than 95% of the accidents were due to the fault of the drivers of motor vehicles and 72.5% of the accidents occurred during day time. Details regarding number of accidents and number of persons held in connection with those accidents in the different districts by primary cause of accidents during 1996 and 1997 are given in Appendices 7.11 and 7.12 and primary reasons for accidents (District wise) are also presented in Appendix 7.14. And types of motor vehicles involved in these accidents and the details of accidents by time of day are given in appendices 7.13 and 7.14 respectively.

Kerala State Road Transport Corporation (KSRTC)

7.15 KSRTC is the largest State Government undertaking which carry out transport operations around the state. It has a fleet strength of 3750 buses of these 1813 (48%) buses are over 5 years of age. Age-wise details of buses owned by KSRTC are given in the following table.

Table - 7.1

Age-wise details of buses owned by KSRTC during 1997

| Sl.No. | Age class | Number |
|--------|----------------------------------|--------|
| 1. | 10 years and above | 259 |
| 2. | Above 7 years and below 10 years | 943 |
| 3. | Above 5 years and below 7 years | 611 |
| 4. | Below 5 years | 1937 |
| Total | | 3750 |

Source - KSRTC

7.16 The Corporation operated 4068 routes in 3408 schedules at a total route length of 2,14,005 KMs during 1996-97. The buses covered a total gross distance of 3314.65 lakh Kms. during 1996-97. They carried 9842.25 lakh passengers during the year against 10152.8 lakh passengers in the previous year thereby showing a decline of 3.1%. Operational statistics of KSRTC are given in Appendix.7.15.

7.17 For city and ordinary buses 22 paise/kms. is the basic fare and Rs.1.25 is the minimum fare. Super Delux has the highest basic fare of 39 paise/kms. and minimum of Rs.10. The fare structure of different types of bus services is given in Appendix. 7.16. Among the 56 Transport Units of KSRTC, Aluva unit reported the highest earning per km. of buses and Payyannur the lowest. Operational ratios of KSRTC are given in Appendix.7.17.

Kerala Transport Development Finance Corporation (KTDFC)

7.18 Kerala Transport Development Finance Corporation was constituted in 1992 to promote transport activities by extending credit facility especially to KSRTC. In the 8th plan an amount of Rs.36.05 crores was set apart for KTDFC. Out of this, an amount of Rs.28.33 crores could be utilised as share capital contribution by the Government to the Corporation.

RAILWAYS

7.19 Total railway route length in Kerala as on 31st December 1997 stood at 1053 Kms of which 936 Kms of length is Broad Gauge and 117 Kms Meter Gauge. The transport operations in the state are undertaken by three Railway Divisions Viz. Thiruvananthapuram, Palakkad and Madurai. The entire length in the state is spread along 13 railway routes. On these lines, there are a total of 198 railway stations. Total number of trains which undertake services in Kerala is 162 of which 80 are express trains and the remaining 82 are passenger trains. Total revenue earnings from both passenger and goods traffic received by Thiruvananthapuram division and Palakkad division together registered at an amount of Rs.336.15 crores of which Rs.188.96 crores from passenger traffic and Rs.147.19 crores from goods traffic. While revenue from passenger traffic has registered an increase of 9.96% over the previous year 1996, the earnings from goods traffic recorded 10.43% increase.

7.20 Passenger train services were started operating through Konkan railways during the year under review. It has been decided that two trains from Kerala will be routed through Konkan Railways. In this connection it should be noted that Kerala continued to contribute to the Konkan Railway Corporation even though the line does not touch Kerala. The

Government did this on assurance that Shoranur - Mangalore line will be doubled in a time bound manner. But till now the stretch remains as single line. The works connected with the laying of an additional line between Kollam and Thiruvananthapuram are fastly progressing. Construction of all major bridges are nearing completion. Patch doubling between Thiruvananthapuram and Kochuveli has been completed. Doubling of Kochuveli - Kollam section will be completed by December 1998. As part of the doubling project, the remodeling of Thiruvananthapuram yard is in progress for providing two long platforms and two short platforms.

7.21. The Railway electrification work in shoranur - Ernakulam section has been commenced and is likely to extend upto Thrissur by the end of March 1998. It is expected that the entire work will be completed by 1999 - 2000. Survey for broad gauge conversion of kollam - Chenkotta line has been completed. Other surveys under progress are: (i) new line between Kottayam - Punalur via Erumeli, (ii) a branch line from Erumeli to Sabarimala, (iii) Angamali to Erumeli, (iv) extension from Punalur to Thiruvananthapuram via Nedumangad, (v) Thakazhi - Thiruvalla - Pathanamthitta, (vi) Edappally - Thirur, (vii) Guruvayur - Edappally and (viii) Kayamkulam - Thiruvananthapuram via Adoor, Kottarakkara.

AIR TRANSPORT

7.22 During 1996-97 passenger traffic handled by Indian Airlines in Kerala showed a marginal decline of 0.37% compared to the year 1995-96. Cargo traffic went marginally from 7003 tonnes in 1995 - 96 to 7305 tonnes in 1996 - 97, registering an increase of 4.3%. Originating and terminating traffic are detailed in Appendix - 7.18. Details of air traffic (Indian Air lines) at Thiruvananthapuram, Kochi and Kozhikode Airports for the last ten years is given in appendix - 7.19.

7.23 The Trivandrum and Kozhikode Airports operate domestic and International flights, while Cochi concentrated on domestic flights only. At present Air India has 15 international services per week and other Airways like Air Lanka, Qatar etc together operate 35 services per week. Thus the total number of weekly international flights to various destinations from Kerala stands at fifty. Total weekly domestic flights operated from Kerala numbers 111; of which 35 are from Trivandrum, 42 from Kozhikode and 34 from Cochi. Air India (from Trivandrum only), Indian Airlines and Jet Airways are the agencies operating the domestic flights. Agency wise details of domestic flights operated from Kerala is as follows.

Table 7.2

Domestic Flights from Kerala-1997 (weekly)

| Agency | Airport | | |
|-----------------|---------|-----------|-------|
| | TVPM | Kozhikode | Kochi |
| 1 | 2 | 3 | 4 |
| Air India | 10 | -- | -- |
| Indian Airlines | 18 | 28 | 21 |
| Jet Airways | 7 | 14 | 13 |
| Total | 35 | 42 | 34 |

PORTS AND HARBOURS

Major port

7.24 Kochin Port is one of the major ports of the country. It handled 117.42 lakh tonnes of cargo during 1996 - 97, as against 115.03 lakh tonnes in 1995 - 96. Container handling increased from 96044 TEUs to 112145 TEUs during the year under review. In 1996 - 97, 940 vessels called at the port as against 921 vessels in 1995 - 96. The port generated an operating surplus of Rs.43.18 crores as against Rs.25.45 crores in 1995-96 registering a substantial increase. Details of ships called at Kochin Port and their net registered tonnage during 1995 - 96 and 1996 - 97 are given in Appendix - 7.20.

INTERMEDIATE AND MINOR PORTS

7.25 Among the 13 intermediate and minor ports of Kerala only four ports viz. Vizhinjam, Neendakara, Beypore and Azheekkal handle cargo. However even though the total cargo handled at these ports together declined to 1.06 lakh tonnes in 1996 - 97 as against 1.66 lakh tonnes in 1995 - 96, mainly due to the steep downfall in the illmenite export through Neendakara Port. Commodity - wise details of Cargo transport through intermediate and minor ports are given in Appendix - 7.21. During the year under review 407 steamers/sailing vessels called at the intermediate and minor ports in Kerala. Details of the visits of such vessels with their net registered tonnage (NRT) are also annexed in the Appendix-7.22.

7.26 During the year under review, 863 harbour crafts were registered (against 606 harbour crafts in the preceding year). This shows an increase of 42.4%. Category-wise harbour crafts registered at the minor and intermediate ports is detailed in Appendix-7.23.

7.27 Revenue earnings from all the 13 ports together during 1996-97 amounted to Rs.126 crores as against Rs.0.87 crores during 1995-96. Source-wise revenue collection from all the ports are given in Appendix-7.24.

INLAND WATER TRANSPORT

7.28 The public sector agencies involved in the Water Transport services of the State are State Water Transport Department, Kerala Shipping and Inland Navigation corporation and the Irrigation Department. State Water Transport Department and Kerala Shipping & Inland Navigation Corporation render inland water services in Alappuzha, Kollam, Kottayam, Ernakulam, Kasaragod and Kannur districts. The Irrigation Department has the responsibility of developments infrastructure facilities connected with inland water transport.

7.29 Number of boats owned by the State Water Department and the corporation together remained unchanged at 88 compared with that of the previous year. During the year under review, number of boats operated and cumulative total number of passengers carried by these agencies increased to 65 and 329 lakhs in 1996-97, from 62 and 305 lakhs respectively in 1995 - 96. Revenue earnings of both the agencies increased to Rs.801 lakhs during 1995 - 96 thereby showing an increase of 5%. Operational statistics of the Inland Water Transport agencies are given in appendix - 7.25.

7.30 State Water Transport Department is operating services in Alappuzha, Kollam, Kottayam districts fully and Emakulam, Kasaragod and Kannur districts partially. Total number of boats owned by the department during the year under review stood at 77 compared to the previous year. Boats in operation increased marginally to 54 in 1996 - 97 from 51 in 1995 - 96.

7.31 During 1996-97 the Department re-introduced the passenger service from Kotti - Kottappuram area. Repair work of Vypin jetty and repair and reconstruction of 10 boats in Ernakulam area were also undertaken during this year. The Dock and Repair section in Alappuzha was completed. 10 boats were fitted with new Ashok Leyland engines and four boats with reconditioned engines during the year under review.

7.32 The main activities of the Kerala shipping and Inland Navigation corporation Ltd are transportation of cargo through inland waters, conducting ferry services to connect Ernakulam with isolated islands docking and repair of marine vessels. The corporation at present has a fleet strength of four bulk carriers, three petroleum tankers, two phosphoric acid barges, two water barges, 11 passenger boats and two jhankars. The total number of passengers carried in 1996 - 97 was 62.39 lakhs compared to 61.78 lakhs in 1995-96. The corporation operated a total route distance of 6.6 lakh kms. In 1996-97 as against a route distance of 5.81 lakh kms. in 1995 - 96. The total Revenue earnings of the corporation increased from Rs.401.94 lakh to Rs.418.68 lakh in 1996-97.

the Corporation is transporting imported industrial fertilizers to FACT, petroleum products for Hindustan petroleum Corporation, FACT etc. The Corporation also transporting minerals sands for Indian Rare Earths Ltd. Chavara, and Zinc ore for Binane Zinc Ltd Edayar. The corporation has also taken on lease a modern spill way complex from Cochin Port Trust for the dry dock repairs of vessels; in addition to the services for other customers is public private sectors. The corporation has also commenced transportation of drinking water and two barges are transporting nearly 740 kilo liter of drinking water per day. The Corporation for the first time constructed two passenger boats at the spill way complexes at Thoppumpady and commissioned these in Vypin Emakulam route.

7.33 Based on the Techno-Economic feasibility studies the Kolam Kochi Kottappuram stretch of West Coast Canal, along with Champakara canal and Udyogamandal Government from February 1993. The improvement of this canal is to be carried out by Inland Water Authority of India (IWAI). The dredging work of this water route is being carried out by Irrigation Department of Kerala on the request of IWAI. The Techno-Economic feasibility studies of Kottappuram Hosdurg and Kollam - Poovar section of West Coast Canal is being done by NATPAC. Request has been made to Central government to declare this portion also as National Water Way.

Passports

7.34 During the year 1996 - 97. 2.98 lakh passports were issued as against 2.89 lakh passports issued during the preceding year. Out of this, 45% passports were issued from the passport office at Kozhikkode. Details of applications for passports and issuance of passports are given in Appendix.7.26.

COMMUNICATIONS

7.35 The total number of post offices in the State increased from 5027 in 1995 - 96 to 5032 in 1996 - 97. Of these 3011 are Branch Offices together with Speed Post Centres. There are 51 Head Post Offices in the State. Apart from these offices, there are 92 Other Post Offices also. Growth of Post Offices during the last ten years can be seen in Appendix-7.27. Division-wise and category-wise statistics of post offices in Kerala are given in Appendices-7.28 and 7.29. The average area covered by one post office was 7.72 sq.kms in 1996 -97. District-wise details of average area and population served by one post office are given in Appendix - 7.30.

7.36 The year under review saw considerable developments in the Telecommunication network in the state. The number of Telephone Exchanges increased from 765 to 793 during the year. Due to the

increase in Exchanges and the introduction of improved electronic equipments and devices. total equipped capacity could be enhanced to 10.62 lakh connections as against 8.12 lakhs connections in the previous year, thereby showing an increase of 31%. As a result of all this 1.72,775 new connections could be provided during the year alone over and above 6,81,234 existing connections.

TOURISM

7.37 Tourism sector in Kerala witnessed a number of positive changes in the Ninties. In 1996, the states contribution increased to about 7 percent of the Indian tourist market.

7.38 The year 1996 recorded an increase of 11% and 13% respectively in the arrival of foreign and domestic tourists, to the State. The foreign and domestic tourist arrivals to the state were 1.59 lakhs and 43.65 lakhs respectively during the year 1996. The trend in foreign tourist arrival to the country as a whole and kerala for the period 1990 - 96 is shown in Appendix No.7.31. The table indicates that eventhough the trend in foreign tourist arrivals in Kerala has been in tune with that of the country as a whole, Kerala could always maintain a higher growth rate compared to that at the national level.

7.39 The share of kerala in Indian tourism market showed a steady increase during the period 1990-96 and reached a level of 6.94 per cent in 1996 against 6.73% in 1995. The trend in the flow of domestic tourists to the state is given in appendix, 7.32. It could be seen that the number of domestic tourists to the state increased by 13% in 1996. It is important to note that there has been a sharp increase in domestic tourism in the recent past. Pilgrim tourism has gone up substantially in these years. Such domestic tourism generate considerable economic activity. This has to be recognised and in view of that there is urgent need for giving due recognition to this segment of tourists and to intiate measures to attract domestic tourism.

7.40 The eamings from tourism over the period 1990-96 is given in Appendix 7.33. Earnings from tourism showed an increase of 11 percent in 1996 over the previous year.

7.41 The outlay for toursim was Rs.28 crores and expenditure Rs.28.27 crores during the year under review. In addition, Rs.14.30 lakhs was spent for centrally sponsored schemes. It has to be noted that Kerala's plan expenditure in tourism is among the highest in the country.

7.42 The share of expenditure on tourism which was 0.52 percent of the total plan expenditure in 1994-95, increased to 0.88 in 1995 - 96 and further to 1.28 in 1996-97. This is higher than the national average of 0.18, 0.21 and 0.26 respectively for the

years 1994-95, 95-96 and 96-97 respectively. The expenditure on tourism has been steadily increasing especially during the period 1994 to 1997. The total plan expenditure. share of expenditure on tourism of all the states in the country during 1994 - 95, 95 - 96 and 96 - 97 are given in the appendix 7.34.

7.43 The Eighth Plan focus in the field of Tourism has been mainly aimed at the augmentation of infrastructure facilities and strengthening of publicity is a portion . In order to attract sufficient institutional finance and private sector investment in the tourism industry of the state finacesupport was given as share capital contribution to Kerala Tourism Development Corporation, (KTDC) Tourism Resorts (Kerala) Ltd. (TRKL) and Bekal Resorts Development Authority (BRDA).

7.44 The accommodation facility available in the State in category of classified hotels is furnished below:

Table - 7.3

| Hotels | Numer | Rooms |
|----------|-------|-------|
| I star | 17 | 505 |
| II star | 35 | 1057 |
| III star | 21 | 972 |
| IV star | 3 | 164 |
| Vstar | 2 | 293 |
| Total | 78 | 2991 |

7.45 The main implementing agencies involved in tourism development in the state are the Department of Tourism and kerala Tourism Development Corporation (KTDC), supported though in a limited scale, by the Department of Forests and District Tourism Promotion councils, the Bekal Resorts Development Corporation (BRDC), and Tourism Resorts (Kerala), Ltd. (TRKL) help in facilitating the implementation of tourism projects in the state by mobilising institutional finance and investments from the private sector.

7.46 Apart from the usual publicity efforts like participation in international fiars, printing of brochures, Audio Video publicity, promotion of local cultural programmes etc., a new off-season package promoting Ayurvedic treatment viz. Monsoon Rejuvenation Holidays' was introduced for international publicity. The expenditure towards publicity was Rs.250 lakhs during 1996 - 97.

7.47 One consequence of the increase in tourist arrivals in the state has been that KTDC could reduce accumulated loss But its effort in mobilising instituional finance could be better. It could avail of only Rs.3.6 crores during the Eighth plan period as against the State government assistance of Rs.10.20 crores.

7.48 BRDA was conceived as a major project at an estimated cost of Rs.135 crores. It was envisaged that state's share, would be Rs.35 crores and Rs.95 crores contributed by institutional finance. The state plan has so far provided Rs.22 crores where as only Rs.10 crores has come from TFC and Rs.1.96 crores from Government of India.

7.49 On the other hand TRKL could attract investment worth Rs.100 crores from the private sector through its joint sector projects at Kochi, Kumarakom, Varkala and Kumily in association with the private parties.

7.50 A project report for the development of eco-tourism in Thenmala at a cost of Rs.156 crores was prepared and it is projected for international assistance from OECF. Environment impact assessment of the project is also being done.

7.51 During 1996-97, Rs.210 lakhs was spent for the 'Destination Kerala Programme', Renovation of Aluva, Munnar and Devikulam guest houses was the main programme carried out under this scheme. Development of approach road at Muzhappilangad, development works at Athirappally Waterfalls area, Erumely, Ponnudi and Changanacherry were other development works implemented during the year. Government has accorded sanction for the acquisition of 25 acres of land at Veli for development of the Centre to international standards. For providing infrastructure facilities for schemes implemented with Government of India's assistance, Rs.116 lakhs was spent during 1996-97.

7.52 Steps were taken to strengthen the administrative set up of the Department of Tourism. District Offices have been set up at five districts and District Information Offices have been opened at Alappuzha, Idukki, Pathanamthita, Ernakulam, Kasargod and Wayanad. Offices of Deputy director at Ernakulam and Kozhikode were upgraded to that of Joint Director.

7.53 Construction of motels at Vadakara, Palaruvi, Valara, Alappuzha and Kuttippuram taken up with government of India's assistance were commissioned during 1996-97. The construction of Yatriniwas at Kochi is nearing completion. The works of yatriniwas and Tourist lodge at Guruvayoor, Kalady, Malayattoor, Changanacherry and Peerumedu are in different stages. Similarly land is identified for the construction of a waterside amenity at Kumarakom.

7.54 The Bekal Resorts Development corporation (BRDC) was provided with Rs.10 crores which was entirely spent for land acquisition for the project. The corporation could acquire 60 acres of land for the Project.

7.55 An amount of Rs.15 lakhs was spent by the Kerala Institute of Tourism and Travel Studies (KITTS) for manpower development in the field of tourism in the state.

7.56 The small tourism projects in various districts in the state are implemented by the District Tourism Promotion Councils. During 1996 - 97 Rs.135 lakhs were given to various DTPCs for their development activities.

7.57 KTDC has formed a joint sector company with Oberoi group and the company has started the construction a hotel at Thekkady. The KTDC concentrated on the upgradation of three star hotels at Munnar and Kumarakom and renovation of Bolgatty palace during 1996-97. Renovation and maintenance of the existing units of KTDC, addition of new high tech luxury coaches in the transport wing, introduction of new conducted tours to Munnar, Kovalam and Madurai, provision of water sports facilities at Kumarakom, Malampuzha, Kollam and Veli, training programmes for the entire staff of the Corporation and computerisation in certain units were the other activities of the Corporation during the year under report. A CD Rom 'on Kerala Tourism' is being completed by the KTDC. The KTDC could mobilise more than Rs.one crore from Govt. of India during the year under report.

7.58 A detailed analysis the performance of the Corporation during the year under report indicates that the Corporation has made a profit of more than Rs.3 crores in 1996 - 97 against Rs.1.8 crores during 1995 - 96. The Corporation's income was Rs.35.59 crores as against an expenditure of Rs.32.58 crs. While 9 units of the Corporation have recorded a bed occupancy of more than 50% against 7 during the last year, only two units registered more than 60% against 5 in 1995-96. The paid up capital of the Corporation is Rs.16.71 crores as on 31.12.97. The accommodation and performance details of KTDC is given in the appendix.

7.59 The Tourism Resorts (Kerala) Limited, a subsidiary company of KTDC was provided with an outlay of Rs.250 lakhs during 1996-97. This amount was utilised for investments in joint venture companies with Taj and Oberoi group of hotels, Veli-Aakkulam project, for drafting preliminary designs for a convention centre of international standard at Trivandrum and also for meeting initial expenses for indentifying land for tourism projects in the State.

7.60 Considering the vast tourist potential of the state the thrust during the Ninth Plan in so far as the efforts of the state Government is on infrastructure development, strengthening the marketing and publicity efforts, diversification of tourism products from conventional pleasure tourism to new areas such as backwater tourism, health tourism, eco-tourism and culture tourism. Public sector undertakings catering to tourism have to be primarily promoters and facilitators. The Ninth Plan outlay proposed for Tourism has been fixed at Rs.140 crores.

IMPORT-EXPORT TRADE

Foreign trade plays an important role in the economy of the state. Many of its traditional crops and industries are dependent upon overseas exports for their prosperity. But the data on foreign trade from the state has to be estimated on the basis of certain assumptions regarding cross inter-state border commodity movements through various modes of transport. The economic interland of Cochin Port has been changing in the recent period in response to the development of Mangalore and Tutucorin Ports. Assuming (i) the exports from the Ports of Kerala to be a proxy for the international trade of the State and (ii) that the cross border traffic is around 20%, it is seen that the ratio for exports to the state domestic product is about three times as high as the ratio of national exports to the Gross National Product.

8.2 Since Independence, there has been a major shift in the direction of external trade of Kerala from international exports to inter-state exports. The output of some of the main commercial crops such as rubber and coconut is almost entirely sold within the national market today. The share of the state in the national exports improved from around 9.5 percent in the early fifties to around 12 percent in the early seventies. Since then it has tended to decline.

Goods traffic through Cochin Port (1996-97)

8.3 The total traffic through Cochin port increased by 2.1 per cent from 115.03 lakh tonnes in 1995-96 to 117.42 lakh tonnes in 1996-97. The percentage increase in 1996-97 is much lower than the 33.2 per cent increase registered in the previous year. Of the total traffic, imports accounted for 80 per cent (see table 8.1)

8.4 The coastal exports and imports accounted for 51.6 percent of the total traffic. The coastal traffic decreased by 10.9 per cent in 1996-97 while the foreign traffic registered an increase of 20.8 per cent.

The commodity composition of the exports from Kerala is given in Table 8.2. 80 per cent of the export traffic is categorised as 'miscellaneous' which includes also petroleum products. The petroleum exports are entirely directed towards domestic market through coastal shipping. If foreign exports alone are considered, spices, tea, coffee, cashew and marine products and coir products would constitute 85-90

per cent of Kerala's exports. Total value of foreign exports through Kochi port was Rs.4435 crores in 1996-97 when compared to Rs.4088 crores in 1995-96. However, the above increase is much lower than 17.5 per cent growth achieved in 1995-96. Among the total value of exports in 1996-97, the value of sea foods was Rs.895 crores (20.2 per cent), cashew kernel Rs.728 crores (16.4 per cent) and coffee Rs.728.5 crores (16.4 per cent).

8.6 The export basket has always been comprised of the above mentioned traditional exports from the region but there have been significant changes in their relative importance over time. Marine products and cashew are the two commodities whose exports have proved to be most buoyant during the post independence period. In the early fifties marine products accounted for a little above one per cent of Kerala's export earnings. Since mid 70s they have accounted for around one fifth of the value of the state's foreign exports. The share of cashew exports have also tended to rise, though less dramatically than the former till mid seventies. In contrast, the share of coir products have tended to sharply decline. The fortunes of spices have been fluctuating.

8.7 A major area of concern in the above context is the lack of diversification of the exports from the region into relatively more modern sectors such as engineering goods and chemical products or even labour intensive readymade garments and polished precious stones whose importance in the national export basket has been increasing. Faced with increasing market competition on the one hand and natural resource constraints on the other, it is important that the state seek to diversify its export to new areas where it has comparative advantage.

8.8 Table 8.2 gives commodity-wise imports through Cochin port. Once again the category 'miscellaneous' mostly consisting of crude petroleum accounted for nearly 88 per cent of the imports in 1996-97. Fertilizer and raw materials is the next important item with a share of 10.32 per cent. Food grains, newsprint, raw cashewnut and iron, steel and machinery are the other notable import items. In 1996-97 there was a sharp increase in the import of raw cashewnuts from 10060 metric tonnes to 58055 metric tonnes and foodgrains from 4443 to 27300 metric tonnes through Cochin port.

Table 8.1
Cargo handled through Kochi port

| Year | (Qty. lakh tonns) | | | | | | | | |
|---------|-------------------|---------|-------|---------|---------|-------|---------|---------|--------|
| | Export | | | Import | | | Total | | |
| | Coastal | Foreign | Total | Coastal | Foreign | Total | Coastal | Foreign | Total |
| 1991-92 | 5.94 | 4.54 | 10.48 | 38.67 | 25.66 | 64.33 | 44.61 | 30.22 | 74.81 |
| 1994-95 | 5.24 | 9.11 | 14.38 | 42.41 | 29.47 | 71.93 | 47.70 | 38.58 | 86.28 |
| 1995-96 | 11.94 | 11.84 | 23.78 | 56.03 | 35.22 | 91.25 | 67.97 | 46.07 | 115.03 |
| 1996-97 | 10.65 | 11.65 | 22.35 | 49.90 | 44.97 | 94.87 | 60.55 | 56.87 | 117.42 |

Source: Kochi Port Trust.

Marine Exports

8.9 Export of marine products from India increased from 2.96 lakh tonnes valued at Rs.350 crores in 1995-96 to 3.8 lakh tonnes valued at Rs.412 crores in 1996-97. ie. an increase of 27.6% in quantity and 17.7% in value. This growth is despite a decrease in the average unit value from Rs.118.17/kg. to Rs.108.97/kg.

8.10 Kerala's share in the export of marine products from India in 1996-97 in terms of both quantity and value declined. While the share in quantity decreased by 2.2%, the decline in the share in value was 1.8%. Quantity of marine products exported from Kerala increased by 17% from 0.79 lakh tonnes in 1995-96 to 0.92 lakh tonnes in 1996-97. Value of products increased by 9.2% from Rs.857 crores in 1995-96 to Rs.936 crores in 1996-97. Appendix 8.3 shows the export of marine products from India and Kerala and the share of Kerala. The share of Kerala both in quantity and value terms have tended to decline in 90s.

8.11 The major marine products export markets are South East Asia, West Europe, Japan and USA. Japan continued to be the single largest market in terms of value.

8.12 Out of the total quantity of marine exports from Kerala in 1996-97, nearly 38% was frozen shrimp, 23% was frozen fish and 15% was frozen cuttle fish. Similarly, out of the total export value, 61% was frozen shrimp, 15% was frozen cuttle fish and 13% was frozen squid. Appendix 8.5 shows the item-wise quantity and value of marine export from Kerala.

Spices

8.13 Total spices export from India was 2.19 lakh tonnes valued at Rs.1180 crores in 1996-97 as compared to 2.02 lakh tonnes valued at Rs.786 crore in 1995-96. In other words the exports increased by 8.5% in quantity and 50% in value terms. In terms of

dollar price the spices export was 332 million US dollar. Out of the total spices exported from India 28 percent of quantity and 48% of the value were through Kochi port during 1996-97. Important spices exported from Kerala are pepper, cardamom, chilly, ginger and turmeric. Appendix 8.6 shows export of spices from India and Kerala.

Pepper

8.14 India exported 47770 tonnes of pepper valued at Rs.416.52 crores in 1996-97 compared to 26346 tonnes valued at Rs.196.47 crores in 1995-96. There has been an increase of 81% in terms of quantity. But the value of exports more than doubled. USA was the major market and in 1996-97, 53% of the total exported pepper was to USA. Other markets are Canada, Netherland, Singapore, UK and Spain.

8.15 Kerala has a near monopoly in the production and export of pepper. The export of pepper from Kerala was 46264 M.T. Valued at Rs.405 crore in 1996-97. It shows that quantity of pepper exported from Kerala almost doubled in 1996-97 and the value more than doubled. Export of pepper from Kerala forms 98.8% of the total export from India and 97.3% of the total value earned.

Cardamom

8.16 Export of cardamom during 1996-97 was 1690 tonnes valued at Rs.19.68 crores. Compared to 2284 tonnes valued at Rs.24.75 crore during 1995-96. It shows that value of export decreased by 20% and quantity by 26%. Export of Cardamom from Kerala decreased from 233 tonnes in 1995-96 to 53 tonnes in 1996-97. Value of export also decreased from Rs.638 lakhs to Rs.245 lakhs. The production of cardamom declined from 7000 tonnes in 1995-96 to 6625 tonnes in 1996-97. Increased domestic market demand pushed up the prices of cardamom from Rs.202/kg. to Rs.366/kg. Guatamala, India's competitor for cardamom, pushed their entire

produce to the international market at very competitive price. The average price of Guatemalan cardamom during 1996-97 was 6 US dollar per kg. against 10 US dollar per kg. for Indian Cardamom. Therefore, India finds it difficult to compete with Guatemalan cardamom in the world market. Details of cardamom export from 1990-91 show that Kerala's share in India's total export of cardamom continuously declined from 80% in 1990-91 to 22% in quantity and 26.6% in terms of value during 1996-97.

Curry Powder

8.17 Curry Powder is another export earning item. During 1996-97 India's export of curry powder is 4250 tonnes valued at Rs.18.23 crores against 4131 tonnes valued at Rs.16.98 crores. Kerala's share decreased from 829 tonnes (20%) valued at Rs.4.20 crores (25%) in 195-96 to 635 tonnes (15%) valued at Rs.3.73 crores (21%) in 1996-97. Both in quantity and value, export of curry powder declined during 1996-97. UK is the major market for curry powder followed by Saudi Arabia, Belgium and Kuwait.

Ginger

8.18 During 1996-97, 28350 tonnes of ginger valued at Rs.57.24 crores were exported from India as against 18191 tonnes valued at Rs.38.28 crores during 1995-96. Kerala's share in the total export of ginger from India increased from 15.7% to 17.3% in quantity. But the share of value decreased by nearly 4% from 49% to 45%. Export of ginger from Kerala increased from 2860 tonnes valued at Rs.18.78 crores in 1995-96 to 4905 tonnes valued at Rs.25.73 crores in 1996-97. It shows 71% increase in quantity and 37% increase in value. Ginger is exported in three forms namely; dry ginger, fresh ginger and ginger powder. Out of the total ginger exported, 17% constitute dry ginger and the rest form fresh ginger and ginger powder. Major market for the dry ginger are Saudi Arabia, USA, Yemen, Morocco, UAE and Netherland.

Turmeric

8.19 India is the largest supplier of turmeric in to the world and supply 90% of the world demand. In value terms export of turmeric during 1996-97 has increased. But quantity of turmeric exported has declined. The export during 1996-97 is 21600 tones valued at Rs.54.71 crores compared to 27376 tonnes valued at Rs.46.07 crores in 1995-96. Quantity decreased by 21% and value increased by 19% in 1996-97 over 1995-96. Export of turmeric from Kerala was 2832 tonnes valued at Rs.10.63 crores in 1995-97 against 3112 tonnes valued at Rs.9.25 crores, in 1995-96. It shows that quantity export decreased

by 9% but value increased by 15%. Kerala's share in the total export from India increased in terms of both quantity and value marginally during 1996-97.

Spices oil and Oleoresins

8.20 During 1996-97, 2020 tonnes of spices oil and Oleoresins valued at Rs.156 crore were exported from India compared to 1715 tonnes valued at Rs.107 crore in 1995-96. Out of this Kerala's share was 1359(69%) tonnes valued at Rs.98 crores (63%). The major oil exported are pepper oil, celery seed oil and koka oil. Amongoleoresins, pepper leads with 516 tonnes followed by paprike 316 tonnes, garcinia 302 tonnes and capsium oleoresin 254 tonnes. The foreign markets are USA, Japan, Germany, Italy and U.K.

Cashew

8.21 In the past, Kerala enjoyed near monopoly in the export of cashew kernels from India. Kerala's monopoly has been undermined slowly and in 1990-91 its share was 88%. In 1996-97, out of India's total export of cashew kernel, share of Kerala in terms of quantity was only 54%. In 1996-97, India exported 0.69 lakh tonnes of cashew kernel valued at Rs.1281 crore, as compared to 0.70 lakh tonnes valued at Rs.1240 crore in 1995-96. The unit export price of cashew kernel increased from Rs.176.37 per kg. in 1995-96 to Rs.186.3 per kg. in 1996-97.

8.22 Export of cashew kernel from Kerala was 0.37 lakh tonnes valued at Rs.723 crore in 1996-97 as against 0.33 lakh tonnes valued at Rs.607 crore in 1995-96. The quantity of exports increased by 11.7% and value by 20%. Export of cashew kernel from Kerala in quantity and value increased more than the all India average.

8.23 U.S.A, Netherland, Japan U.K., Australia, UAE, Singapore, Germany, Israel, Hongkong and France are the countries to which cashew kernels are exported. Shortage of indigenous and imported raw cashew and sluggish market world over contributed to the shortfall in export. Export to Japan, Hong Kong, Taipei, Bahrain, Kuwait, Lebanon, Spain, Greece and Russia declined in 1996-97.

Cashew shell Liquid

8.24 India exported 1350 mt. of cashew shell liquid valued at Rs.1.99 crores in 1996-97. It is against 760 mt. valued at Rs.1.45 crore in 1995-96.

Import of raw cashewnuts

8.25 During 1996-97 nearly 1,92,285 mt. of raw cashewnuts valued at Rs.640.60 crores were imported into India for processing and export as against the imports of 222819 mt. valued at Rs.760 crores during 1995-96. This shows that it was 13% lower in

quantity and 16% lower in value compared to 1995-96. The unit value of imported raw cashewnuts was slightly lower at Rs.33.31 per kg. during 1996-97 as against Rs.34.11 per kg. during 1995-96.

8.26 The major suppliers of raw cashewnuts to India were Tanzania, Guinea Bissau, Ivory Coast, Indonesia, Mozambique, Nigeria, Vietnam and Benin. There was remarkable increase in the import of raw cashewnuts from the African countries. But there was a steep decline in the imports of raw cashewnuts from the South East Asian countries. For instance as against an import 39179 mt. raw cashewnuts valued at Rs.124.70 crores in 1994-95 and 14,109 mt. valued at Rs.49.70 crores during 1995-96 from Vietnam there was hardly any imports during 1996-97. Appendix 8.8 shows import of raw cashew to India.

8.27 During 1996-97, 0.49 lakh tonnes of raw cashew valued at Rs.160 crore was imported through Kochi port as against an import of 6292 mt. in 1995-96 valued at Rs.19.13 crores. It shows that

quantity and value of import increased by nearly 8 times. (see appendix 8.8)

Coffee

8.28 Export of coffee from India was 1.81 lakh tonnes valued at Rs.1467 crore in 1996-97 as against 1.71 lakh tonnes valued at Rs.1527 crores in 1995-96. It shows that coffee export increased by 5.8% in terms of quantity and 4% in terms of value in 1996-97.

8.29 Export of coffee from Kerala is 1.22 lakh tonnes valued at Rs.728 crore in 1996-97 as against 1.14 lakh tonnes valued at Rs.908 crore in 1995-96. Thus the quantity of export increased by 7.4% in 1996-97 over 1995-96 and value of export decreased by nearly 20%. Similarly share of Kerala in India's total export of coffee increased from 66.7% in 1995-96 to 67.6% in 1996-97. But share of export value decreased from 59.5% to 49.7%. Table 8.2 shows quantity and value of coffee exported from India and Kerala.

Table-8.2

Major Item-wise Exports from Kerala

| Sl. No. | Items | 1994-95 | | 1995-96 | | 1996-97 | |
|---------|--------------------------|-----------------|----------------|----------------|----------------|----------------|----------------|
| | | Qty. | Value | Qty. | Value | Qty. | Value |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Marine Products | 74653 (24.0) | 817.09 (23) | 78895 (27) | 856.90 (25) | 922.88 (24) | 936.22 (23) |
| 2. | Pepper | 33512 (90) | 213.97 (90) | 24419 (93) | 183.10 (93) | 46264 (97) | 405.17 (97) |
| 3. | Cardamom | 194 (76) | 5.61 (73) | 233 (47) | 6.35 (51) | 53 (22) | 2.45 (27) |
| 4. | Curry powder | 702 (17) | 2.98 (21) | 829 (20) | 4.20 (25) | 6.35 (15) | 3.73 (21) |
| 5. | Ginger | 1402 (12) | 5.46 (33) | 2860 (20) | 18.78 (49) | 4905 (17) | 25.93 (45) |
| 6. | Turmeric | 2895 (10) | 7.33 (16) | 3112 (11) | 9.25 (20) | 2832 (13) | 10.63 (19) |
| 7. | Spices oil and deoresins | 1152 | 64.45 | 1153 | 77.72 | 1359 | 98.0 |
| 8. | Cashew kernel | 34379 (45) | 538.10 (43) | 33275 (47) | 606.55 (49) | 37183 (54) | 727.7 (57) |
| 9. | Coffee | 86229 (63) | 581.01 (53) | 114036 (67) | 908.12 (60) | 122455 (68) | 728.50 (50) |
| 10. | Coir and Coir products | 43792 (91) | 141.97 (83) | 45200 (94) | 198.74 (96) | 44512 (96) | 205.31 (97) |

Note: Figures in bracket indicate percentage share of Kerala to all India.

Coir and Coir products

8.30 Kerala state ranks top in the production and export of coir and coir products from India. India exported 46369 MT of coir products valued at Rs.213 crore during 1996-97 against 48726 MT valued at Rs.207 crore in 1995-96. It shows that value of exports increased by 2.8% while quantity of exports decreased by nearly 4%.

8.31 Out of the total quantity of coir products exported from India the share of Kerala was 96% in 1996-97 and 93.6% in 1995-96. Similarly out of the total value of export, the share of Kerala was 96.6% in 1996-97 and 96% in 1995-96. Export of coir and coir products from Kerala was 44512 MT valued at Rs.205 crore in 1996-97 against 45200 MT valued at Rs.199 crore in 1995-96. In other words, the quantity

of export decreased by 1.5% and value increased by 3.3% in 1996-97 over 1995-96 (see table 8.2)

8.32 Coir mats, coir yarn, coir mattings, and coir rugs and carpets are the major items of coir products exported from India and Kerala. For instance, out of the total value of coir products exported from India in 1996-97, nearly 54% was coir mats, 19.4% was coir mattings, 15.3% was coir yarn and 8% was coir rugs and carpets.

8.33 The major export markets for coir products in 1996-97 were U.S.A., Netherlands, U.K., Italy, Germany and Belgium. Out of the total quantity of coir products exported from India, 17.5% was to USA, 12.8% to Netherlands, 10.9% to U.K., 8.9% to Italy and 7.9% to Germany. Appendix 8.9 shows major country wise export value of coir products from India.

CHAPTER 9

SOCIAL AND COMMUNITY SERVICES

The state of Kerala has achieved commendable success in social development sectors like high physical quality index, high life expectancy, high literacy and low infant mortality rate. Apart from historical factors, the successive governments in Kerala have followed a support led development strategy of consciously investing in social development sectors like education, medical and public health. Kerala's pioneering redistributive policy measures like land reforms and the comprehensive coverage of public distribution system deserve special mention. The institutional and non-institutional social security measures introduced were directed at attaining mainly the goal of reducing income insecurity and deprivations among weaker segments. Kerala thus has made signal achievements in the social development front, which is almost comparable to that of developed countries.

9.2 Kerala have accorded very high priority in implementing social development programmes. The expenditure on social services was as high as 36 per cent of the total expenditure of the state. (Refer Table 9.1). From a level of Rs.689 crores in 1985-86, the expenditure on social services increased to Rs.2380 crores in 1995-96. According to the hudget estimate, it amounted to Rs.3418 crores in 1997-98.

I. EDUCATION

1.1 Literacy

9.3 Kerala has made achievements in the field of literacy that it has reason to be proud of. The state achieved a literacy rate of 89.81 per cent in 1991, compared to the all India average of 52.21 while literacy among males and females in Kerala was 93.62 percent and 86.17 percent, it was only 64.13 and 32.29 at the all India level.

Kerala achieved a literacy rate of 89.81 per cent as compared to the All India average of 52.21 per cent

9.4 The literacy rates for Scheduled Castes and Scheduled Tribes in the State stood at 69.38 per cent and 48.62 per cent respectively. The district-wise literacy rates of Scheduled Castes and Scheduled Tribes are given in Appendix-9.5.

Table.9.1

Expenditure on social services

(Rs.Crores)

| Year | Total Expenditure (Revenue and Capital) | Expenditure on Social Services (Revenue and Capital) | Percentage of Social Services Expenditure to total Expenditure |
|---------|-----------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
| (1) | (2) | (3) | (4) |
| 1962-63 | 79.97 | 36.31 | 45 |
| 1967-68 | 142.04 | 73.78 | 52 |
| 1971-72 | 217.48 | 116.98 | 53 |
| 1974-75 | 320.07 | 162.78 | 51 |
| 1976-77 | 446.28 | 217.32 | 49 |
| 1979-80 | 695.79 | 297.36 | 43 |
| 1980-81 | 789.47 | 374.67 | 47 |
| 1981-82 | 950.48 | 413.75 | 43 |
| 1982-83 | 938.67 | 432.68 | 46 |
| 1983-84 | 1200.57 | 550.28 | 46 |
| 1984-85 | 1305.71 | 609.55 | 47 |
| 1985-86 | 1651.00 | 689.00 | 42 |
| 1986-87 | 1711.00 | 790.00 | 46 |
| 1987-88 | 1948.00 | 852.00 | 44 |
| 1988-89 | 2241.00 | 973.00 | 43 |
| 1989-90 | 3418.00 | 1059.00 | 31 |
| 1990-91 | 3081.00 | 1278.00 | 41 |
| 1991-92 | 3502.00 | 1382.00 | 39 |
| 1992-93 | 3934.00 | 1480.00 | 37 |
| 1993-94 | 4656.00 | 1825.00 | 39 |
| 1994-95 | 6103.00 | 2196.00 | 36 |
| 1995-96 | 6390.00 | 2380.00 | 37 |
| 1996-97 | 8155.00 | 3099.00 | 38 |
| (R.E) | | | |
| 1997-98 | 9450.00 | 3418.00 | 36 |
| (B.E) | | | |

Source : Annual Financial Statements

SCHOOL INFRASTRUCTURE

9.5 In 1961, there were 6745 lower primary (LP) schools, 1985 upper primary (UP) schools and 629 high schools in the state. The effective average area served by a lower primary school was 5.76 sq.km., upper primary 19.58 sq km and high school 61.78 sq. km. There was a lower primary school for every 2506 persons, upper primary school for 8515 persons and high school for 26874 persons.

9.6 In 1997, school infrastructure grew to 6726 L.P. Schools, 2968 U.P. schools and 2580 high schools. (See Fig. 1)

In 1997 School infrastructure consisted of 6726 L.P. Schools, 2968 U.P. Schools and 2580 High Schools. The accessibility is far higher in Kerala as compared to All India.

9.7 The average area served by a L.P. school including LP. sections was 4.03 sq. km, U.P. school including U.P. sections was 8.21 sq km and high school 15.06 sq. km. Further there was one L.P. school/section for 3270 persons, one U.P. school/section for 6662 persons and one high school for 12221 persons.

9.8 The wide spread educational infrastructure facilitated easy access to LP/UP education in Kerala. 94.39 per cent of the rural population was served by primary schools/sections within a distance of 1 km, 97.96 per cent within a distance of 2 kms and 96.2 per cent for upper primary schools/sections within a distance of 3 kms where as this rate for all India is 84 per cent.

9.9 The number of schools in Kerala increased marginally from 12265 in 1995-96 to 12274 in 1996-97. The increase was reflected only in the unaided sector,. Besides, there were 8 Anglo Indian high schools and 34 schools for the handicapped. Out of 102 Teacher Training Institutes 38 were Government institutions with a student strength of 3283 of which 2602 were girls. The details on educational institutions from 1961-62 to 1996-97 are given in Appendix-9.9.

MANAGEMENT OF SCHOOLS

9.10 In 1992, there were 12190 schools in the State of which 4488 (36.82%) were government schools, 7330 (60.13%) private aided schools and 372 (3.05%) private unaided schools. Though total number of schools increased to 12274 in 1997 the number of private aided schools and government schools declined. In the private unaided sector, number of schools increased to 510, which represented 4.16 per

cent of the total number of schools. State-wise analysis of schools show that out of the total 7817 (7307 aided and 510 Unaided) private schools, 4205 (4039 aided and 166 unaided) were L.P. schools, 2007 (1873 aided and 134 unaided) U.P. schools and 1605 (1395 aided and 210 unaided) high schools. This shows that private sector schools constituted 62.52 per cent at the L.P. level, 67.62 per cent at U.P. level and 62.21 per cent at high school in the state.

SCHOOL ENROLMENT

9.11 School enrolment which stood at 56.28 lakhs in 1996 sharply declined to 55.34 lakhs in 1997 showing a net decline of 0.94 lakh students (1.67 per cent) in the total enrolment.

There was a sharp fall in total enrolment of 0.94 lakh students in the school education sector during 1997 as compared to previous year.

9.12 The fall in enrolment at the L.P. level was 57,574 students, at the U.P. level 22,885 students and at the high school level 13,070 students. Relevant data are given in Table -9.2. The sharp fall in enrolment has important implication for the planning of education in the state in terms of infrastructure required at different levels.

PROJECTIONS OF SCHOOL ENROLMENT

9.13 A three member Expert Committee constituted by the State Planning Board has estimated that school age group children (5-14 age) will decline to 52.92 lakhs in 2001 AD as against the 1997 enrolment level of 55.34 lakhs.

It has been projected that the school age group children (5-14) will be declined to 52.92 lakhs in 2001 A.D. as against the 1997 enrolment level of 55.34 lakhs.

The projected standard -wise school-age-group children indicate that at the lower primary level age-group population would be 21.18 lakhs in 2001

Table 9.2

Enrolment in schools - Stagewise - 1995 to 1997 (in Lakhs)

| Stage | 1995 | | | 1996 | | | 1997 | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total |
| Lower Primary | 11.53 | 10.99 | 22.52 | 11.24 | 10.74 | 21.98 | 10.94 | 10.46 | 21.40 |
| Upper Primary | 9.48 | 8.92 | 18.40 | 9.35 | 8.78 | 18.13 | 9.22 | 8.68 | 17.90 |
| Secondary | 8.01 | 8.25 | 16.26 | 7.97 | 8.19 | 16.16 | 7.91 | 8.13 | 16.04 |
| Total | 29.02 | 28.16 | 57.18 | 28.56 | 27.71 | 56.27 | 28.07 | 27.27 | 55.34 |

Source: Directorate of Public Instruction, Thiruvananthapuram.

as against the present enrolment of 21.40 lakhs. At the upper primary level the number of children will decline to 15.99 lakhs against 1997 enrolment of 17.90 lakh students. At the high school level, the age group population has been projected to fall to 15.75 lakhs in 2001, as against the enrolment of 16.04 lakh students in 1997. Effectively, the situation emerging is that by 2001 AD there will be a net decline of 2.42 lakh children in the age group (5-14). This is evident from the figures presented in Appendix 9.11.

9.14 Out of the total number of 55.34 lakh students in schools, SC/ST enrolment constituted 6.65 lakhs (12.02%). Of this, 2.91 lakh students were in Government schools (43.76%), 3.68 lakhs in private aided schools (55.34%) and 0.06 lakh students in private unaided schools (0.9%). The enrolment of SC students numbered 6.03 lakhs (10.89%) and that of ST students 0.62 lakh (1.12%) in 1997.

The enrolment of Scheduled Caste Students numbered to 6.03 lakhs (10.89%) and that of Scheduled Tribe Students 0.62 lakhs (1.12%) in 1997.

The relevant details are given in Appendix-9.13.

9.15 The enrolment of girls in 1997 was 27.27 lakhs out of 55.34 lakhs, which represented 49 per cent of the total student enrolment.

The girl students enrolment in 1997 stood at 27.27 lakhs out of 55.34 lakhs which represented 49 per cent.

The percentage enrolment of girl students in L.P, U.P and H.S levels was 49, 50 and 51 respectively in 1997. The SC/ST girls enrolment constituted 3.26 lakh students which amounted to 49 per

cent of the total SC/ST enrolment during the year 1997.

TEACHER-PUPIL RATIO

9.16 There were 1.88 lakh teachers in schools of Kerala in 1997. Of this, Government teachers constituted 36 per cent, private aided school teachers 60 per cent and private unaided school teachers 4%. A further analysis shows that L.P teachers constituted 23.80% (44,851), U.P. teachers 26.36% (49,689) and high school teachers 49.32% (92,957) and TTI teachers 0.52% (990). The teacher-pupil ratio in Kerala declined from 1:30 during 1996 to 1:29 in 1997.

Teacher-Pupil ratio in Kerala reduced from 1:30 in 1996 to 1:29 in 1997

The relevant data are given in Appendices 9.20, 9.21 and 9.22.

UNECONOMIC SCHOOLS/PROTECTED TEACHERS.

9.17 Under Kerala Education Rules, an uneconomic school is one in which the minimum strength per standard in lower primary/upper primary/high school falls below 25. The minimum required strength per standards in Arabic and Sanskrit schools is 15. There were 1407 uneconomic schools in Kerala during 1996-97 as against 1265 in 1994, 1347 in 1995 and 1346 in 1996. During 1996-97 the uneconomic schools increased by 61. A major percentage of uneconomic schools was in the government sector. Out of 1407 schools, 625 were in the Government sector and 782 in the private sector. The state is spending about Rs.25 crores per year for the 1407 uneconomic schools with about 6000 teachers. The district wise and stage-wise distribution of uneconomic schools are given in Table-9.3.

Table-9.3

Uneconomic Schools in Kerala District-wise and Stage-wise - 1997

| Sl. No. | Districts | Government Schools | | | | Private Schools | | | | Total | | | |
|---------|--------------------|--------------------|-----|-----|-------|-----------------|-----|-----|-------|-------|-----|-----|-------|
| | | L.P | U.P | H.S | Total | L.P | U.P | H.S | Total | L.P | U.P | H.S | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1. | Thiruvananthapuram | 42 | 10 | 3 | 55 | 4 | 2 | -- | 6 | 46 | 12 | 3 | 61 |
| 2. | Kollam | 30 | 3 | -- | 33 | 19 | -- | -- | 19 | 49 | 3 | -- | 52 |
| 3. | Pathanamthitta | 55 | 13 | -- | 68 | 138 | 11 | -- | 149 | 193 | 24 | -- | 217 |
| 4. | Alappuzha | 53 | 11 | -- | 64 | 37 | 6 | -- | 43 | 90 | 17 | -- | 107 |
| 5. | Kottayam | 72 | 20 | 1 | 93 | 71 | 14 | 1 | 86 | 143 | 34 | 2 | 179 |
| 6. | Idukki | 31 | 11 | 3 | 45 | 16 | 4 | 1 | 21 | 47 | 15 | 4 | 66 |
| 7. | Ernakulam | 45 | 8 | 1 | 54 | 47 | 7 | -- | 54 | 92 | 15 | 1 | 108 |
| 8. | Thrissur | 23 | 2 | 1 | 26 | 38 | 8 | -- | 46 | 61 | 10 | 1 | 72 |
| 9. | Palakkad | 22 | 1 | -- | 23 | 20 | -- | -- | 20 | 42 | 1 | -- | 43 |
| 10. | Malappuram | 8 | 1 | -- | 9 | 7 | -- | -- | 7 | 15 | 1 | -- | 16 |
| 11. | Kozhikode | 46 | 4 | -- | 50 | 90 | 5 | -- | 95 | 136 | 9 | -- | 145 |
| 12. | Wayanad | 10 | 2 | -- | 12 | 1 | -- | -- | 1 | 11 | 2 | -- | 13 |
| 13. | Kannur | 53 | 7 | -- | 60 | 211 | 8 | -- | 219 | 264 | 15 | -- | 279 |
| 14. | Kasaragode | 31 | 2 | -- | 33 | 16 | -- | -- | 16 | 47 | 2 | -- | 49 |
| Total | | 521 | 95 | 9 | 625 | 715 | 65 | 2 | 782 | 1236 | 160 | 11 | 1407 |

Table-9.4

Protected Teachers in Kerala District-wise and Stage-wise - 1996-97

| Sl.No. | Districts | H.S.A | P.D. Teachers | Special Teachers | Total |
|--------------|--------------------|------------|---------------|------------------|-------------|
| 1. | Thiruvananthapuram | 14 | 92 | 8 | 114 |
| 2. | Kollam | 64 | 186 | 62 | 312 |
| 3. | Pathanamthitta | 21 | 29 | 38 | 88 |
| 4. | Alappuzha | 104 | 146 | 135 | 385 |
| 5. | Kottayam | 43 | 79 | 101 | 223 |
| 6. | Idukki | 4 | 42 | 14 | 60 |
| 7. | Ernakulam | 64 | 219 | 104 | 387 |
| 8. | Thrissur | 13 | 51 | 48 | 112 |
| 9. | Palakkad | 15 | 79 | 13 | 107 |
| 10. | Malappuram | 2 | 83 | 8 | 93 |
| 11. | Kozhikode | 22 | 185 | 32 | 239 |
| 12. | Kannur | 6 | 21 | 4 | 31 |
| 13. | Wayanad | 3 | 37 | 17 | 57 |
| 14. | Kasaragode | 5 | 18 | 8 | 31 |
| Total | | 380 | 1267 | 592 | 2239 |

9.19 Higher Secondary Course were first introduced in 84 schools during 1990-92 period, and has been remaining stagnant since 1997. Following Government's decision in principle to delink PDC from colleges from 1997-98, 268 batches of higher secondary courses were introduced in 112 Government High Schools. Additional 61 batches were sanctioned in the earlier started schools. The students enrolled stood at 21850, of which 10450 were boys and 11400 girls in 1997. Vocational higher secondary education was introduced in 300 schools (with 814 sections) aimed at offering vocational education to 20350 students. Further delinking will depend on the pace at which consequential deployment is possible to effect; given the Government's resource constraint.

University Education

9.20 In the state there are seven universities and 186 arts and science colleges, of which 38 (20%) are in the Government sector and 148 (80%) are in the private aided sector. There were also 25 unaided colleges in the state. Of the colleges, 46 were under University of Kerala, 60 under University of Calicut and 62 under Mahatma Gandhi University. With the establishment of the Kannur University eighteen colleges were transferred to from the University of Calicut. The relevant details on University-wise distribution of colleges are given in Appendices 9.24 and 9.25. The district-wise distribution of colleges are given in Appendix 9.35.

College Enrolment

9.21 The enrolment in arts and science colleges more than doubled during the period 1973-74

to 1996-97, from 1.51 lakh students to 3.43 lakh students.

The enrolment in Arts and Science Colleges more than doubled during the period 1973-74 to 1996-97 from 1.51 lakh students to 3.43 lakh students. Girl students constituted 59% in 1997 in the higher education sector.

9.22 Out of this girl students constituted 2.03 lakhs (59%) in 1997. Stage-wise details showed that there were 1.94 lakh students at the pre-degree level, 1.37 lakh at the degree level and 0.12 lakh at the post-graduate level. The enrolment details are given in Appendix 9.26. The total intake of students in arts and science colleges in the four universities in Kerala during 1997 stood at 2.83 lakhs (1.20 lakh boys and 1.63 lakh girls). Out of this, pre-degree students constituted 1.65 lakhs, degree students 1.07 lakhs and post graduate students 0.11 lakhs. The relevant details are presented in Appendix 9.27.

9.23 There were 13276 college teachers out of whom 3983 were under Kerala University, 3540 under Calicut University, 4696 in Mahatma Gandhi University and 1057 under Kannur University. Out of the total number of college teachers, women teachers were 4984 (38%). The relevant details are given in Appendix 9.28.

Private Registration

9.24 The total private registrants in the three Universities in Kerala during the year 1997 stood at 1.47 lakhs. Calicut University had the highest number of registrants 71560 followed by 44740 in Kerala University and 30897 in Mahatma Gandhi University.

The total private registrants in the three Universities - Kerala, Calicut and Mahatma Gandhi University stood at 1.47 lakhs in 1997.

9.25 Private registrants for PDC under Calicut University and M.G. University were 39282 and 21931 respectively, which are marginally lower compared to the previous year. The registrants for B.A. degree stood at 15000 for Calicut University and 2204 for Mahatma Gandhi University. Also there were 11500 private registrants for B.Com. degree in Calicut University and 6762 for Mahatma Gandhi University. Moreover 3600 M.A, 800 M.Sc., and 1378 M.Com. private registrants are there under Calicut University. The details are given in Appendix 9.29.

TECHNICAL EDUCATION

Infrastructure

9.26 In 1997 there were 15 engineering colleges in the State comprising of four Government Colleges, three private aided colleges, one regional engineering college, six self financing engineering colleges and one model engineering college at Ernakulam.

9.27 The Cochin University of Science and Technology has a student strength of 3400 under different courses. The Institute of Human Resources Development, Lal Bahadur Sastri Centre for Consultancy and Research, Kerala State Audio Visual and Reprographic Centre and Kerala State Science and Technology Museum are the major autonomous State Sector bodies in the technical education sector.

9.28 The number of seats in various engineering colleges in Kerala stood at 4844 at graduate level (which increased from 4259 in 1996) and 312 at post graduate level, during 1997. A branch-wise analysis shows that out of 4223 seats (excluding REC, Calicut) 801 were in Mechanical Engineering, 660 Electrical and Electronics Engineering, 582 Civil Engineering, 580 Electronics and Communication, 430 Computer Science and Engineering, 300 Electronics Engineering, 240 Computer Engineering, 110 Applied Electronics and Instrumentation Engineering etc. The branch-wise distribution of seats in various engineering colleges are furnished in Appendix 9.33.

Polytechnics and Technical High Schools

9.29 There were 38 polytechnics and 39 technical high schools in the State. Out of 38 polytechnics, 32 were in Government sector. The annual intake of students in polytechnics in Kerala stood at 6660 in 1997. The course-wise analysis

revealed that out of 6660 sanctioned intake in polytechnics, the courses with largest intake were Mechanical (1170), Civil (990), Electronics (895), Electrical (880), Computer (700), Electronics and Communication (240) etc. The institution-wise and course-wise sanctioned intake in polytechnics during 1997 are shown in Appendix 9.36. Out of the total 18511 students in Polytechnics, SC students accounted to 1343 and ST 108. The girls constituted 29.58 percent of the total number of students in polytechnics. The details of annual intake, total enrolment and teachers in technical high schools and polytechnics are presented in Appendices 9.38, 9.39, 9.40 and 9.41.

Expenditure on Education

9.30 The total expenditure by State Government on education during 1996-97 amounted to Rs.1810.36 crores (revised estimate) as against Rs.1652.27 crores in the previous year. Of the total expenditure of Rs.1810.36 crores, Rs.890.10 crores (49.17 percent) was spent in primary education, Rs.547.38 crores (30.24 percent) on secondary education and Rs.287.37 crores (15.87 percent) on University and higher education. The expenditure on Technical education increased from Rs.68.53 crores in 1995-96 to Rs.85.51 crores during 1996-97. (See Fig. 2) The details of expenditure on education are given in Table-9.5.

9.31 The cost of primary education per pupil at the primary stage increased from Rs.1965.14 in 1995-96 to Rs.2265 in 1996-97. Corresponding with the cost of secondary education per pupil increased from Rs.3084.56 to Rs.3413 in 1996-97. The details are shown in Table 9.6. Kerala's expenditure on education percapita and per pupil is higher as compared to all India.

Table 9.5

Expenditure on Education 1992-93 to 1996-97
(Rs. in crores)

| Stage | 1992-93 (Accounts) | 1993-94 (Accounts) | 1994-95 (Accounts) | 1995-96 (Accounts) | 1996-97 (Revised Estimate) |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------|
| Primary Education | 591.12 | 530.46 | 660.87 | 675.10 | 890.10 |
| Secondary Education | 273.41 | 339.10 | 406.83 | 675.64 | 547.38 |
| University & Higher Education | 156.62 | 214.82 | 212.80 | 227.02 | 278.19 |
| Adult Education | 0.43 | 1.60 | 1.03 | 0.60 | 0.10 |
| Language Development | 4.13 | 4.86 | 5.40 | 5.38 | 9.08 |
| Tech. Education | 32.61 | 59.25 | 62.23 | 68.53 | 85.51 |
| Total | 1058.32 | 1150.09 | 1349.16 | 1652.27 | 1810.36 |

Table 9.6
Cost of Education-per pupil cost in different stages : 1965-1996

| Year | Cost per pupil (Rs.) | |
|---------|----------------------|-----------------|
| | Primary Stage | Secondary Stage |
| 1965-66 | 43.80 | 90.31 |
| 1966-67 | 54.17 | 103.81 |
| 1967-68 | 65.07 | 130.07 |
| 1968-69 | 73.23 | 139.71 |
| 1969-70 | 82.38 | 164.08 |
| 1970-71 | 85.91 | 176.25 |
| 1971-72 | 89.26 | 187.29 |
| 1972-73 | 94.61 | 194.15 |
| 1973-74 | 102.24 | 211.70 |
| 1974-75 | 117.52 | 217.90 |
| 1975-76 | 170.02 | 361.02 |
| 1976-77 | 186.16 | 386.02 |
| 1977-78 | 193.61 | 363.02 |
| 1978-79 | 206.21 | 356.34 |
| 1979-80 | 238.27 | 369.34 |
| 1980-81 | 265.24 | 454.25 |
| 1981-82 | 298.18 | 536.37 |
| 1982-83 | 326.13 | 589.41 |
| 1983-84 | 372.62 | 657.60 |
| 1984-85 | 414.43 | 737.60 |
| 1985-86 | 479.23 | 906.91 |
| 1986-87 | 563.03 | 1043.00 |
| 1987-88 | 550.35 | 1089.38 |
| 1988-89 | 617.80 | 1161.93 |
| 1989-90 | 690.12 | 1248.15 |
| 1990-91 | 872.69 | 1500.00 |
| 1991-92 | 953.48 | 1600.00 |
| 1992-93 | 1357.65 | 1760.53 |
| 1993-94 | 1239.68 | 2134.05 |
| 1994-95 | 1576.88 | 2517.51 |
| 1995-96 | 1965.14 | 3084.56 |
| 1996-97 | 2265.00 | 3413.00 |

Ninth Five Year Plan-Education

9.32 The outlay provided during the Ninth Five Year Plan for the education sector is Rs. 485.38 crores. In addition to this about Rs.340 crores is the allocation to the local self Government Institutions. In the school education sector the major thrust is to be on quality improvement through massive inservice training of about 2 lakh teachers, curriculum development, educational technology etc. The major effort will be on the attainment of minimum learning levels by students. In regard to provision of physical facilities all thatched sheds in schools will be replaced and drinking water and other facilities will be improved. As a matter of policy Government decided to delink pre-degree from colleges. Already 49 Higher Secondary Schools were transferred to local

Government institutions as per Kerala Panchayat Act/ Kerala Municipal Act vide order No.G.O.(MS)2/97/ G.Edn. dated 3.1.1997. In the higher education sector including technical education thrust is for consolidation and improvement of facilities and quality upgradations. Management and supervision of Government schools have already been transferred to respective local government institutions. The major functions transferred included mid-day meals, scholarships, construction, quality improvement programme etc.

HEALTH

9.33 Kerala has made signal achievements in the health front which are comparable to that of developed countries of the world. This achievement has been made possible with a wider network of health infrastructure and accessibility to services combined with other social factors like women education, general health consciousness, availability of safe drinking water and clean health habits of the people. Kerala has succeeded in reducing IMR to 16 whereas the All India Level was as high as 74 in 1995. The child mortality rate in Kerala is distinctly lower at 4.6 as against the All India average of 26.3. The perinatal mortality rate and neonatal mortality rate are also considerably lower in Kerala.

9.34 Maternal mortality rate in Kerala varied between 1.5 and 2.0 in 1996 for every three thousand deliveries. The corresponding All India rate was 4.6. Life expectancy which is an important indicator of the health status of any region considerably higher in Kerala than in the whole country. Life expectancy at birth in Kerala is 67.2 years for men and 72.4 years for women, whereas for All India it is 60.6 and 61.7 years respectively for men and women. (See Fig. 3)

Kerala's life expectancy at birth in Kerala is 67.2 years for men and 72.4 years for women where as the all India situation is 60.6 and 61.7 years for men and women respectively.

9.35 The major development indicators viz birth rate, death rate and infant mortality rate for the period from 1970 through 1996 can be shown in Table-9.7 (See Figs. 4,5 & 6)

| <i>Kerala's health development interms of major indicators is unique as compared to all India</i> | | |
|---------------------------------------------------------------------------------------------------|--------|-----------|
| | Kerala | All India |
| Birth rate | 17.7 | 28.8 |
| Death rate | 6.0 | 9.0 |
| IMR | 16 | 74 |

Table 9.7
Birth, Death and Infant Mortality rate in Kerala

| Year | Birth rate per '000 Population | | Death rate per '000 Population | | Infant Mortality per '000 Population | |
|------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------------|-----------|
| | Kerala | All India | Kerala | All India | Kerala | All India |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1970 | 32.3 | 36.8 | 9.2 | 15.7 | 61.0 | 129 |
| 1980 | 26.8 | 33.7 | 7.0 | 12.6 | 42.0 | 117 |
| 1981 | 25.6 | 33.0 | 6.6 | 12.5 | 37.0 | 110 |
| 1985 | 22.9 | 32.9 | 6.9 | 11.8 | 33.0 | 97 |
| 1986 | 22.4 | 32.6 | 6.7 | 11.1 | 27.0 | 96 |
| 1987 | 21.0 | 32.2 | 6.0 | 10.9 | 26.0 | 95 |
| 1988 | 19.9 | 31.3 | 6.0 | 10.0 | 24.0 | 94 |
| 1989 | 20.3 | 30.5 | 6.1 | 10.2 | 21.0 | 91 |
| 1990 | 20.3 | 30.5 | 6.1 | 14.2 | 21.0 | 80 |
| 1991 | 19.8 | 29.5 | 5.8 | 10.2 | 17.0 | 80 |
| 1992 | 17.7 | 29.5 | 6.3 | 10.1 | 17.0 | 79 |
| 1993 | 17.4 | 28.7 | 6.0 | 9.3 | 13.0 | 74 |
| 1994 | 17.4 | 28.7 | 6.1 | 9.3 | 16.0 | 74 |
| 1995 | 17.7 | 28.8 | 6.0 | 9.0 | 16.0 | 74 |

Institutional Deliveries

9.36 Kerala has achieved another land mark by attaining almost cent percent institutional deliveries. Out of the estimated 6 lakh deliveries in year in Kerala, 97 percent is institutional deliveries as against the All India average of about 60 percent. This has been possible due to wide spread utilisation of health infrastructure, both in the Public sector as well as in Private sector, and also due to the high level of health consciousness of the people of Kerala. This is the major primary factor responsible for low IMR, low MMR and attainment of immunisation levels and family planning.

Table 9.8
Expectation of Life at Birth in Kerala

| Period | Males | Females |
|---------|-------|---------|
| 1951-60 | 46.17 | 50.00 |
| 1966-70 | 56.70 | 60.00 |
| 1971-73 | 60.62 | 62.08 |
| 1975-77 | 62.53 | 65.17 |
| 1976-78 | 63.63 | 66.19 |
| 1977-79 | 63.82 | 66.91 |
| 1978-80 | 64.23 | 67.88 |
| 1979-80 | 64.70 | 69.00 |
| 1980-82 | 66.30 | 70.70 |
| 1981-83 | 66.00 | 71.80 |
| 1982-84 | 66.50 | 73.40 |
| 1983-85 | 65.70 | 72.50 |
| 1984-86 | 66.90 | 72.80 |
| 1989-90 | 67.50 | 72.90 |
| 1990-91 | 69.00 | 72.00 |
| 1991-96 | 67.23 | 72.37 |

Immunisation

9.37 In the field of immunisation also, the coverage in Kerala has been near total. The coverage in 1996-97 stood at 87 percent of pregnant women with T.T, 63.9 percent of DT immunisation for 5 years children, 61.4 percent of TT for 10 years and 59.1 percent TT for 16 years. The coverage of infants for DPT, polio and BCG were 100 percent in 1997. But in the case the anti-measles coverage stood at 91.5 percent.

Health Care Infrastructure

9.38 The development of vast health care infrastructure in Kerala facilitated greater access to the health services. At the commencement of the First Five Year Plan the State had 230 allopathic health institutions with 6752 beds. By 1996-97 the numbers had risen to 1310 institutions with 43165 beds. During the 35 year period 1961-97, more than 30,000 beds were added in the state. The major public sector hospital infrastructure in the general sector consisted of 5 general hospitals, 11 district hospitals, 42 taluk hospitals, 69 intermediary hospitals, 8W & C hospitals, 5 medical college hospitals, 3 leprosy hospitals, 3 TB hospitals and 3 mental hospitals and one ophthalmic hospital. Of 1310 allopathic medical institutions 150 are hospitals with 29979 beds, 80 are community health centres with 3442 beds, 956 are primary health centres with 5100 beds, 52 dispensaries with 154 beds, 21 TB Clinics/centres with 268 beds, 15 leprosy control units and 36 grant-in-aid institutions with 4222 beds. The relevant data are given in Appendix-9.46

9.39 The Spatial distribution of allopathic medical institutions and beds is given in Appendix-9.44. The growth of institutions and beds from 1966 to 1997 is given in Appendix-9.42.

Accessibility of Rural Health Infrastructure

9.40 In addition to community health centres and primary health centres, there are 5094 sub centres in Kerala. Each sub centre serves a population of 5695 as against the average of 6358 for the whole country.

The accessibility of health infrastructure at the rural level is higher than each subcentre in Kerala serves a population of 5695 as against 6358 at the all India level.

9.41 For every 7.28 Sq.kms in the state there is one subcentre and for every 43 sq.kms there is one primary health centre as against the All India level of 24.14 Sq.kms and 155.16 Sq.kms respectively. On an average each primary health centre serves a population of 30346 in Kerala (as against the All India position of 38618.) and each community health centre serves a population of 3.63 lakhs in Kerala (as

There are 956 Primary health centres in Kerala. Every PHC serves on an average 43 Sq km and for a population of 30346. At the all India level a PHC on an average serves an area of 155 Sq.km and a population of 38618.

against the All India position of 3.48 lakh persons). Details of Rural health infrastructure in Kerala for the period 1986-1997 is shown in Appendix 9.47

Health Manpower - Allopathy

9.42 There are 3460 doctors working in various medical institutions attached with the department of health services and 1844 doctors in five medical college hospitals. Along with the manpower available in Government health institutions, there are 6335 doctors in private health institutions.

9.43 There were 6661 nurses working in various institutions of the Health Department. This works out to a gross nurse bed ratio of 1.6 and Doctor-nurse ratio in the Government and private sector of 1:2.15 and 1:6 (1996). The overall situation is that there were 24122 medical and para medical personnel under the Department of Health Services and 1699 staff with Medical Education Department. The relevant data are shown in Appendix.. 9.48 , 9.49 and 9.56

9.44 In Kerala there are 48,441 registered medical practitioners as against 410800 in All India (1991-92) Data relating to the registered medical and

paramedical personnel in the State are shown in Appendix- 9.63 and 9.64.

Private sector Health Infrastructure

9.45 Private medical institutions play an important role in the provision of medical services in the State. According to a survey conducted in 1995 by the department of Economics and Statistics, there were 4288 private allopathic medical institutions with 67517 beds. In the Ayurvedic sector there were 4922 private institutions with 2595 beds, homoeopathic sector had 3118 institutions with 394 beds and others had 290 institutions with 418 beds. More over 19963 doctors worked in the private sector. Besides there were 149 institutions with 1835 beds in the co-operative sector.

Overall Bed Population Ratio

9.46 As can be seen from Appendix 9.42 the bed- population ratio per lakh of population is 137 in 1997. District-wise distribution of institutions and beds per lakh of population is given in Appendix- 9.45. Besides there are 2349 beds in 108 Ayurveda hospitals and 950 beds in 31 homoeo hospitals. The combined bed population ratio of all the three systems of medicines put together in the Government sector would be 147 beds per lakh of population whereas the all India level is 96 beds per lakh of population.

The availability of beds per lakh population in the government sector for Kerala is 147 as compared to 96 for all India.

9.47 Taking into account the beds in the private sector and co-operative sector, the beds per lakh of population in the state will be around 377.

9.48 The state has a large network of laboratory and other supporting services also. There are laboratory facilities in block level primary health centres, community health centres, intermediate hospitals, taluk hospitals and district hospitals. Besides Public Health Laboratory, Government Analyst Laboratory, Chemical Examiner's Laboratory and Drugs Control Department are also functioning in the State.

Communicable Diseases

9.49 Kerala has made big strides in its attempts to prevent communicable diseases. Mortality due to communicable diseases has fallen much faster than that from non-communicable diseases. The prevalence rate of leprosy for every thousand population is estimated at only 0.22 and for tuberculosis is 0.13. Whereas, the prevalence rate of filaria and malaria are only 0.34 and 0.36 respectively. The prevalence rate estimated for some of the major diseases in Kerala is given in Appendix - 9.52.

Kerala has succeeded in reducing the prevalence rate of some of the major diseases to the minimum and the prevalence rate per 1000 population is shown here

| | |
|-----------------|------|
| 1. Leprosy | 0.22 |
| 2. Malaria | 0.36 |
| 3. Filaria | 0.34 |
| 4. Tuberculosis | 0.13 |

9.50 Even though mortality rate in the state has been reduced to the minimum, the morbidity rate is rather high. The morbidity rate per thousand population for men and women in Kerala is shown in Appendix - 9.53.

Demand for blood in Kerala

9.51 According to World Health Organisation 7 units of blood are required for an active hospital bed in a year with 80000 beds in Kerala of which 70 percent of the beds are active beds (According to the Expert Committee on Blood Transfusion Services in Kerala) The annual requirement in Kerala works out to 344700 units. At present blood is collected in more than 100 hospital Blood banks and between 180000 and 200000 units of blood are collected in a year. So, there is a substantial gap in the collection of blood in the State.

MEDICAL EDUCATION

9.52 The medical education and training infrastructure in the state consists of 5 medical colleges, 2 dental colleges and 3 nursing colleges. Another medical college started recently under co-operative sector. The total intake under different courses in five medical colleges, 2 dental colleges and 3 nursing colleges are, 700 for MBBS, 80 for BDS, 28 for B.Pharm, 24 for B.Sc MLT, 150 for B.Sc. Nursing, 24 for MSc. Nursing, 8 for M.Pharm, 24 for MDS, 10 for Dental Hygienist Certificate course and 10 for Dental Mechanic Certificate Course. B.Pharm, M.Pharm and B.Sc MLT are being conducted only in Thiruvananthapuram Medical College. Dental Hygienist Certificate course and Dental Mechanic Certificate Courses are being conducted only in Thiruvananthapuram Dental College. Details of annual intake of students for various courses are given in Appendix 9.57. There are 8359 beds in all the five medical college hospitals.

Nursing Education

9.53 There are three nursing colleges attached with medical colleges at Thiruvananthapuram, Kottayam and Kozhikode which together have a total annual intake of 150 students for B.Sc. Nursing and 60 students for General Nursing in

Thiruvananthapuram and Kozhikode Nursing Colleges. Moreover M.Sc. nursing is conducted in Thiruvananthapuram and Kozhikode Nursing Colleges with a total intake of 24 students. Besides, there are 22 Nursing Schools under DHS, of which 9 schools are for conducting General Nurse - cum - Midwives (3 years Course) and 13 schools for conducting Junior Public Health Nursing Course (18 months course). The annual intake of nursing courses in different categories during 1997 is shown in Appendix- 9.58. A total of 2346 nurses are trained every year in the approved institutions, including nursing schools under the department. Taking note of the demand for trained nurses in the rest of the country and abroad the present out turn of trained nurses is not adequate to cover the gap within the State.

Table 9.9
Plan and Non-plan Expenditure on
Medical and Public Health-excluding
Family Welfare Programme- Kerala

| Year | (Rs in lakhs) | | |
|---------|---------------|----------|----------|
| | Plan | Non-plan | Total |
| 1975-76 | 230.71 | 2527.38 | 2758.09 |
| 1976-77 | 236.87 | 2678.67 | 2915.54 |
| 1977-78 | 306.96 | 2867.83 | 3174.79 |
| 1978-79 | 525.66 | 3051.48 | 3577.14 |
| 1979-80 | 472.51 | 3647.19 | 4119.70 |
| 1980-81 | 651.38 | 4229.27 | 4880.65 |
| 1981-82 | 905.97 | 4936.88 | 5842.85 |
| 1982-83 | 880.10 | 5058.12 | 5938.22 |
| 1983-84 | 1044.41 | 5935.02 | 6979.43 |
| 1984-85 | 1074.00 | 6354.81 | 7428.81 |
| 1985-86 | 1102.50 | 8754.37 | 9856.87 |
| 1986-87 | 1799.34 | 9576.09 | 11375.43 |
| 1987-88 | 1532.08 | 10207.12 | 11739.20 |
| 1988-89 | 1802.43 | 11408.10 | 13210.53 |
| 1989-90 | 2040.33 | 12910.55 | 14950.88 |
| 1990-91 | 1529.53 | 16587.77 | 18117.30 |
| 1991-92 | 1786.23 | 17445.10 | 19231.33 |
| 1992-93 | 1775.18 | 18331.75 | 20106.93 |
| 1993-94 | 2438.25 | 22425.78 | 24864.03 |
| 1994-95 | 3113.42 | 26597.61 | 29711.03 |
| 1995-96 | 5767.27 | 29889.88 | 35657.15 |
| 1996-97 | 7114.51 | 37377.87 | 44492.38 |
| (R.E) | | | |
| 1997-98 | 8605.00 | 42068.61 | 50673.61 |
| (B.E) | | | |

AYURVEDA

9.54 At the end of the First Five Year Plan (1955-56), there were 22 ayurveda hospitals, 94 dispensaries and 7 taluk hospitals in the State. And by the end of the Sixth Five Year Plan, the State had 94 hospitals and 457 dispensaries, with a total bed

strength of 1679. This increased to 550 dispensaries and 105 hospitals by the beginning of the 8th five year plan. At present there are 108 hospitals with 2349 beds and 614 dispensaries in the State. Out of 614 dispensaries, 5 are Visha Dispensaries, 9 Sidha dispensaries and one unani dispensary. Besides there are 140 grant-in-aid institutions. The 108 hospitals included 14 district hospitals, 63 taluk hospitals, one mental hospital, one panchakarma hospital and 29 other hospitals. The growth of institutions and beds from 1975 to 1997 are given in Appendix - 9.59. In the ayurvedic institutions 176.95 lakh persons were treated as outpatients and 30615 persons as inpatients during the year under review. The District-wise details of institutions, beds and number of patients treated are given in Appendix- 9.60.

9.55 The list of institutions transferred to local bodies is given in Appendix-9.69. According to the survey conducted in 1995 there were 4922 ayurvedic institutions with 5771 doctors and 2529 beds in the private sector.

9.56 There are five ayurveda colleges in the State with an annual intake of 50 students in Government Ayurveda college, Thiruvananthapuram and 30 each in Govt. Ayurveda Colleges, Thrippunithura, Kannur and Kottakkal (Quasi Government) and Private Ayurveda College, Ollur for BAMS Course. M.D Course is being conducted only in the Government Ayurveda college, Thiruvananthapuram with an annual intake of 42 Students.

HOMOEOPATHY

9.57 In 1997 there are 405 Homoeopathic dispensaries and 31 hospitals with 950 beds in the State. The number of homoeopathic institutions and beds in Kerala from 1971 to 1997 is shown in Appendix 9.61. The district wise distribution of institutions, beds and patients treated under homoeopathy during 1996 and 1997 is given in Appendix 9.62.

9.58 In addition to the institutions in the Government sector, there is a network of homoeopathy institutions and hospitals under private sector. According to the 1995 survey referred to above there were 345 homoeopathic institutions with 3476 doctors doing private practice.

9.59 There are four homoeopathic medical colleges in the state of which two are in the government sector and two in private sector. BHMS (Graded) degree courses and direct degree courses are conducted in the Government colleges only. Homoeopathic Medical Colleges in the government sector has an intake of 100 students (in each) in each course. In the private Ahurasramam NSS Homoeo Medical College, Kurichy both BHMS Degree and Diploma courses are being conducted (with an an-

nual intake of 50 and 120 students respectively). In the private Homoeo College Dr. Padian Memorial Homoeo Medical College, Ernakulam BHMS Diploma Course is being conducted with an annual intake of 60 students.

FAMILY WELFARE INFRASTRUCTURE

9.60 The Family Welfare Programmes in Kerala are being implemented through a net work of 956 primary health centres and 5094 subcentres. The training infrastructure consists of two Junior Health Inspectors Training Schools, with an annual intake of 120. Also there are 13 Junior Public Health Nurses Training Schools in the Government Sector and 18 in the private sector, with total intake capacity of 515 and 501 respectively imparting training of 18 months duration. There are two Female Health Supervisors Training Schools functioning with an intake capacity of 85. The achievements under family welfare programmes for the last two years are furnished in Appendix 9.66 and district wise details of 1996-97 are given in appendix 9.67. The expenditure under family welfare programmes from 1980-81 to 1996-97 is shown in the Table -9.10 (See Fig. 7)

Table 9.10
Expenditure on Family Welfare Programme

| Year | Both plan & Non plan Amount (Rs in lakhs) |
|---------|-----------------------------------------------|
| 1980-81 | 590.20 |
| 1981-82 | 687.08 |
| 1982-83 | 785.59 |
| 1983-84 | 1176.47 |
| 1984-85 | 1930.99 |
| 1985-86 | 2510.22 |
| 1986-87 | 3130.33 |
| 1987-88 | 3370.22 |
| 1988-89 | 3157.83 |
| 1989-90 | 4279.08 |
| 1990-91 | 4081.74 |
| 1991-92 | 3949.12 |
| 1992-93 | 3815.97 |
| 1993-94 | 4981.10 |
| 1994-95 | 5950.40 |
| 1995-96 | 6130.67 |
| 1996-97 | 6939.59 (R.E) |
| 1997-98 | 5262.00 (B.E) |

9.61 That Kerala's achievements in the Family Welfare front has been impressive is clearly evidenced by various demographic indices. The most direct evidence of the effectiveness of the programme is provided by the couple protection rate. The Percentage of couples effectively protected by various methods of family planning in Kerala increased steadily from 15 percent in 1971 to 30 percent in 1981

and 55 percent in 1991. The present couple protection rate in Kerala is 64.3 as against the all India average of 45.8. The total fertility rate in the state shows a declined trend from 4.1 in 1971 to 2.1 in 1990.

Health Expenditure

9.62 Analysis of Health expenditure shows that Kerala consistently spent a higher outlay both

under plan as well as non-plan. In 1996-97 Kerala's percapita health expenditure by government including family welfare stood at Rs. 163.12. The total plan and non plan expenditure including family welfare increased from Rs. 126.81 crores in 1985-86 to Rs.221.99 crores in 1990-91 and further to Rs. 514.32 crores in 1996-97. The relevant data are given in Table- 9.11.

Table 9.11
Per Capita Expenditure on Medical and
Public Health

| Year | Population (lakhs) | Expenditure on Health including Family Welfare (Rs. in lakhs) | Index of growth | Expenditure per head(Rs) | Index of growth |
|---------|--------------------|---------------------------------------------------------------|-----------------|--------------------------|-----------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1985-86 | 274.05 | 12681.25 | 100 | 46.27 | 100 |
| 1986-87 | 275.06 | 14506.88 | 114 | 52.74 | 114 |
| 1987-88 | 288.39 | 15103.96 | 119 | 52.37 | 113 |
| 1988-89 | 293.58 | 16368.36 | 129 | 55.75 | 120 |
| 1989-90 | 298.87 | 19230.44 | 152 | 64.34 | 139 |
| 1990-91 | 290.11 | 22199.04 | 175 | 76.52 | 165 |
| 1991-92 | 294.91 | 23180.45 | 183 | 78.60 | 170 |
| 1992-93 | 298.88 | 23922.90 | 189 | 80.04 | 173 |
| 1993-94 | 302.91 | 29845.13 | 235 | 98.53 | 213 |
| 1994-95 | 306.99 | 35661.43 | 281 | 116.16 | 251 |
| 1995-96 | 311.12 | 41787.82 | 330 | 134.31 | 290 |
| 1996-97 | 315.31 | 51432.27 | 406 | 163.12 | 353 |
| (B.E) | | | | | |
| 1997-98 | 319.56 | 55935.61 | 441 | 175.04 | 378 |

Health Sector and Local Self Government Institutions

9.63 The Government of Kerala has devolved wide powers to local self government institutions in promoting the balanced health of the community. Consequently, 2232 institutions were transferred to different levels as on 31.3.1997. Out of the institutions thus transferred, 1783 institutions go to Grama Panchayats, 318 institutions to Block Panchayats, 24 institutions to Corporations and 107 institutions to Municipalities. Details of medical institutions transferred to local bodies as on 31.3.1997 are given in Appendix - 9.68, 9.69 and 9.70.

9.64 But the Government still retains its control on staff commitment, equipment purchase, bulk purchase of medicines etc.

Ninth Five Year Plan - Health

9.65 The Eighth Five year Plan expenditure for health sector amounted to Rs. 159.32 crores which represented 2.24% of the expenditure. The state sector schemes outlay for the sector proposed for the Ninth

plan is Rs. 309.4 crores which constitutes 3.06% of the total outlay. Considering the priority a higher outlay is earmarked for primary health centres and community health centres during the Ninth five year plan. The thrust during the ninth five year plan is optimal utilisation of the health infrastructure, created with more inputs like patients care, provision of equipments, completion of spill over worker etc. Nursing education facilities are to be additionally augmented and quality improvement programmes attempted for which more thrust is laid. Further greater attention is given for prevention and control of diseases, improvement of facilities in mental hospitals and developing facilities as per Mental Health Act.

9.66 As far as the medical colleges are concerned, the thrust is on making them academic excellence. With this view allocation for library, research and teachers education have been increased. Separate fund is allotted to meet the expenditure necessary for improving the service conditions of medical college staff, while terminating the private practices as recommended by the Jayachandran Commission.

WATER SUPPLY AND SANITATION

Water Supply Schemes in Kerala

9.67 There were 1412 rural water supply schemes and 50 urban water supply schemes in the State as on 30-11-1997. Besides, there were 1255 small schemes and extensions exclusively benefiting Scheduled Castes, Scheduled Tribes and mini water supply schemes benefiting small areas and weaker sections.

9.68 During the VIII Plan, Kerala Water Authority completed 1348 rural water supply schemes including extensions and mini schemes and 11 urban water supply schemes. Out of the rural schemes, 793 schemes were implemented in SC areas and 101 in ST areas. In terms of physical coverage, about 35 lakh people were additionally provided with piped water supply during 1992-97. The SC population additionally covered was 6.1 lakhs and ST population covered was 60,000. The category wise details of schemes commissioned during the eighth plan period are provided in Appendix 9.71

Coverage of Rural Population

9.69 As on 30-11-1997, 52.3 per cent or 111.90 lakh of rural population in the State had access to protected water supply. The coverage increased from 83.3 lakhs in 1992 to 111.9 lakhs in 1997. Thus the additional coverage was of 28.54 lakh population during 1992-97. The relevant data on district wise coverage of rural population with protected water supply can be seen in Appendix 9.74.

Production and supply of piped water

9.70 The production of piped water in the State increased from 334759 million litres in 1992 to 3,68,177 million litres in 1997. The supply in million litres increased from 205378 to 266914 during the above period. This can be seen from Table 9.12. The difference between production and supply is accounted for by leakage.

Table - 9.12

Production of Water Under Piped Water Supply (In million litres)

| Year | Production | Supply | Leakage | % of column |
|------|------------|-----------|-----------|-------------|
| | | | | 4 to 2 |
| 1 | 2 | 3 | 4 | 5 |
| 1992 | 334759.40 | 205378.34 | 129381.06 | 38.65 |
| 1993 | 360597.12 | 247924.46 | 112672.67 | 31.25 |
| 1994 | 350962.48 | 253657.43 | 97305.05 | 27.72 |
| 1995 | 382116.77 | 255946.82 | 126169.95 | 33.00 |
| 1996 | 387759.86 | 269799.29 | 117960.58 | 30.42 |
| 1997 | 368177.22 | 266914.13 | 101263.09 | 27.5 |

Though leakage of water declined between 1992 - 97, still it stood at 27 per cent of the water production in 1997. It would be stated that the leakage of water was reduced in the succeeding years as compared to 1992 situation.

9.71 As on 30-11-1997 house tap connections covered 5.33 lakh families, thereby covering about 28.8 lakh population. The number of stand posts installed increased from 1.21 lakhs in 1996 to 1.35 lakhs in 1997. Each stand post according to norms is expected to serve a population of 250. The district wise details of house connections and stand posts provided are furnished in Table 9.13.

9.72 Out of total coverage of rural water supply, Thrissur had the maximum coverage (12.3 percent), followed by Thiruvananthapuram (10.94%) and Emakulam (10.24%). Six districts had coverage less than 5% of the total.

Table 9.13

Service level of the existing water supply system in Kerala through house taps and stand posts as on 30-11-1997

| Sl.No. | District | No.of house con- nections | No.of stand posts installed |
|--------|--------------------|---------------------------------|-----------------------------------|
| 1 | Thiruvananthapuram | 160850 | 13793 |
| 2 | Kollam | 44625 | 9600 |
| 3 | Pathanamthitta | 10064 | 3254 |
| 4 | Alappuzha | 63220 | 16178 |
| 5 | Kottayam | 36295 | 9321 |
| 6 | Idukki | 8545 | 4060 |
| 7 | Ernakulam | 163682 | 26922 |
| 8 | Thrissur | 45990 | 14130 |
| 9 | Palakkad | 37276 | 10971 |
| 10 | Malappuram | 21625 | 9279 |
| 11 | Kozhikode | 9600 | 9001 |
| 12 | Wayanad | 2005 | 2013 |
| 13 | Kannur | 17460 | 4122 |
| 14 | Kasaragode | 10460 | 2027 |
| TOTAL | | 631697 | 134671 |

Non-covered/partially covered habitations in Kerala

9.73 According to a survey conducted in 1992 there were 2289 non-covered habitations (NC), 2074 partially covered (WS level less than 10 lpcd), 5348 partially covered (WS level 10 to 40 lpcd), 52 fully covered (FC) and 13 not covered (Forest area) habitations in the State. During 1992-97 3000 habitations were covered through piped water supply/bore wells (with hand pumps or power pumps) additionally, covering non-covered habitations and augmenting water supply facilities to partially

covered habitations. The status as on 1-4-1997 was that out of 9776 habitations there were 1148 (11.74%) non-covered habitations, 1606 (16.43%) partially covered habitations with supply of less than 10 lpcd, 5535 habitations with coverage between 10 to 40 lpcd 1474 (15%) fully covered habitations and 13 not covered (non-accessible forest area) habitations. The district-wise details of habitation coverage is shown in Appendix 9.73. A further analysis shows that the percentage of population covered was less than 10 per cent in the case of 2279 habitations. More than 25 per cent of the habitations had coverage only less than 10 per cent. The status of coverage in terms of percentage of the population is given in Table 9.14. In Kerala there were 1384 problem villages of which 1359 were covered with water supply. The district wise problem villages partially covered and benefited population is presented in Appendix 9.72.

Table 9.14

| Population covered | No. of habitations |
|--------------------------|--------------------|
| Below 10% | 2279 |
| Between 10% and 25% | 1746 |
| Between 25% and 50% | 2272 |
| Between 50% and 100% | 3496 |
| Sub Total | 9763 |
| Non covered, Forest area | 13 |
| Total | 9776 |

Urban Water Supply

9.74 The total urban population benefited stood at 57.52 lakhs thus constituting 74.89 percent of the total urban population as revealed in Appendix 9.75. An attempt has been made to understand for the first time the demand and supply for water in the city corporation areas and the municipal areas in Kerala. The population in Kerala living in corporations and municipalities works out to 37.24 lakhs in 1991. This population is projected to increase to 41.19 lakhs in 1997. The LPCD demand as presented in Annexure 9.76 put 6160.5 million litres of demand against 3953.77 million litres of supply using the projected population. The demand supply gap was estimated to be 2206.73 million litres in 1997.

Financing Water Supply

9.75 Financing Water Supply has been a major concern and considering the demand, the State government have been allocating a higher plan provision over the years. Moreover, inter-national agencies and the foreign governments have evinced interest in extending technical and financial co-operation

in this vital sector. During the 6th, 7th and 8th plan periods 18 schemes were taken up with assistance from World Bank and Netherlands Government. The source wise assistance received is shown in Table 9.15. In addition the flow of financial assistance to this sector from HUDCO/LIC increased from Rs.1495 lakhs in 1992-93 to Rs.3064 lakhs in 1996-97.

9.76 The total expenditure on Water Supply (including repayment of loans) increased from Rs.164 crores in 1992-93 to Rs.309 crores in 1996-97. An analysis of the different components of expenditure shows that the operation and maintenance cost and establishment charges constituted 13.83 percent of the total expenditure in 1996-97 as against 13.62 percent in 1992-93. The relevant data are furnished in Table - 9.16. The repayment burden alone for Kerala Water Authority constituted Rs.83.89 crores which worked out to 27.07 percent of their total expenditure.

Table 9.15

| Year | Flow of Funds and Financing Water Supply (Rs.lakhs) | | | | |
|---------|--------------------------------------------------------|-------------|--------|---------|---------|
| | World Bank | Nether land | Danida | HUDCO | LIC |
| 1985-86 | - | 781.30 | - | - | - |
| 1986-87 | 8.40 | 263.23 | 140.00 | - | - |
| 1987-88 | 217.70 | 739.45 | 371.00 | - | - |
| 1988-89 | 473.90 | 142.39 | 315.00 | - | - |
| 1989-90 | 435.33 | 136.11 | 163 | - | - |
| 1990-91 | - | 543.06 | 170 | - | - |
| 1991-92 | 1527 | 227.03 | 300 | - | - |
| 1992-93 | 601.55 | 380.62 | 120 | 1395.00 | 1000.00 |
| 1993-94 | 1454.16 | 760.68 | 748 | 1174.00 | 1230.00 |
| 1994-95 | - | 496.41 | 500 | 1449.00 | 2151.00 |
| 1995-96 | - | 173.32 | - | 1060.00 | 2028.00 |
| 1996-97 | - | 925.92 | - | 798.00 | 2266.00 |

Table 9.16

| Schemes | Plan and Non-Plan Expenditure of Kerala Water Authority | | | |
|---------------------------------------|------------------------------------------------------------|---------|---------|---------|
| | 1993-94 | 1994-95 | 1995-96 | 1996-97 |
| Plan Expenditure | | | | |
| Plan Schemes other than ARP/LIC/HUDCO | 4679.00 | 5705.00 | 6713.00 | 7139.00 |
| ARP Schemes | 976.00 | 1193.00 | 1498.00 | 3239.00 |
| LIC/HUDCO | 2376.00 | 2096.00 | 3236.00 | 2761.00 |
| Other Capital Expenditure | 286.00 | 389.00 | 132.00 | 36.23 |

| | | | | |
|------------------------------------------|---------|---------|----------|----------|
| Total Plan Expenditure | 8317.00 | 9383.00 | 11579.00 | 13175.23 |
| Non-Plan Expenditure | | | | |
| Salary establishment | 2744.00 | 3057.00 | 5490.00 | 4744.00 |
| Power charges | 1357.00 | 1729.00 | 1940.00 | 2101.00 |
| Operation and maintenance | 1472.00 | 1658.00 | 1826.00 | 2185.00 |
| Interest on Loans (Excluding GOK Loans) | 1421.00 | 1816.00 | 2225.00 | 2635.00 |
| Repayment of Loans (Excluding GOK Loans) | 624.00 | 772.00 | 884.00 | 948.00 |
| Others | 294.00 | 269.00 | 372.00 | 393.00 |
| Total NP Expenditure | 7912.00 | 9301.00 | 12737.00 | 13006.00 |

Note: Establishment reduced to the extent of share debit transferred to plan expenditure.

* Provisional.

9.77 The per capita cost of providing water supply in Kerala has been estimated to be between Rs.1500 and Rs.2000 in the rural sector and Rs.2500 and Rs.3000 in urban sector.

9.78 The existing water rate for Domestic and Non-Domestic connections and demand for water supply is given in Table 9.17.

Table 9.17

Existing water rate for domestic and non-domestic connections and water supply demand

| | Rate | Water supply demand |
|--------------------------------------|-------------------------------------------------------------------|---------------------|
| Domestic | | |
| Up to 10000 lits | Rs.17/- per month | Rs.10,90,00000 |
| 10000 lits to 30000 lits | Rs.17/- plus @ Rs.2.30 per 1000 lits in excess of 10000 lits | |
| 30000 lits to 50000 lits | Rs.63/- plus @ Rs.3.45 per 1000 lits in excess of 30000 lits | |
| Above 50000 lits | Rs.132/- plus @ Rs.4.60 per 1000 lits in excess of 50000 lits | |
| Non-Domestic | | |
| Up to 50000 lits | Rs.4.60 per 1000 lits with minimum charge Rs.58/- | |
| Above 50000 lits | @ Rs.230/- plus @ Rs.6.90/- per 1000 lits in excess of 50000 lits | |
| Industrial Category | | |
| For entire consumption | @ Rs.6.90/- per 1000 lits with minimum charge Rs.115/- | |
| Automatic revision by 15% every year | | |
| Stand Posts | | |
| Urban | @ Rs.1314/- per year per tap | |
| Rural | @ Rs. 875/- per year per tap | |

Sanitation

9.79 According to 1991 census, 51 per cent of the house holds in Kerala had sanitation facilities. The major departments concerned with sanitation are the Development Department, Panchayat Department, Corporations and Municipalities and Kerala Water Authority. The Socio Economic Units, Kerala is a major agency which has constructed about 45000 household latrines and 1200 institutional latrines during the last five years. The Development Department constructed about 5000 latrines during 1986-87 to 1995-96. It is estimated that between 40000 and 50000 latrines are constructed by different agencies in the State every year. As regards urban Sewerage Schemes, though Thiruvananthapuram, Kochi schemes started in the late 1970's and early 1980's, only about 30 per cent of the population in Thiruvananthapuram and only 10 per cent in Kochi could be covered. The Urban coverage of 72.7 per cent in latrine programme was predominantly through the twin pit pour flush latrines.

Ninth Five Year Plan and Water Supply

9.80 While formulating 9th Five Year Plan proposals the Task Force as well as the Steering Committee have recommended that over riding priority has to be given for completion of schemes started prior to the 8th Five Year Plan. Keeping these factors in view and the proposals made by the department, the proposals for water supply sector have been formulated. The objective is to achieve 100 per cent coverage of protected water supply to urban as well as rural population by 2002. The lpcd consumption level for urban area is proposed to be increased from 70 to 150 and to rural areas from 40 to 55.

9.81 In order to achieve the above objectives, though Rs.1032 crores is provided for the State Sector Schemes during the 9th Five Year Plan the overall investment likely to take place in the State Sector will be about Rs.2262 crores at 1997 prices.

| | (Rs. in crores) |
|-------------------------------------|-----------------|
| (i) State Sector Outlay | 1032 |
| (ii) SCP/TSP Sector | 100 |
| (iii) Govt. of India/HUDCO/LIC etc. | 500 |
| (iv) Local Bodies | 630 |
| Total | 2262 |

9.82 During the transition year 1997-98 itself more than Rs.55 crores has been allotted for water supply by the local bodies. The drinking water projects proposed by the local bodies broadly are of six categories viz., renovation of ponds and water conservancy measures; repair of wells and tube wells, digging of new well; drilling of new tube wells; overhead tanks and piped water supply schemes, extension of existing lines, small schemes to provide taps

in the vicinity, large and new pipe water supply schemes. The rural latrine schemes are fully transferred to local bodies.

HOUSING

Demand for Housing in Kerala

9.83 According to the 1991 census, there were 54.59 lakh houses and 55.13 lakh households in Kerala. The average size of house hold in Kerala according to 1991 census was 5.3 persons.

9.84 It is estimated that a total of 10.9 lakh houses or 20 percent of 54.59 lakh houses in Kerala are thatched huts of semi permanent nature. Out of these thatched huts 5.5 lakh units are substandard huts which are not fit for safe human living. Moreover 5 percent of the existing houses are required to be demolished and reconstructed. Thus the housing demand as in 1991 was as given below.

| | (in lakhs) |
|-----------------------------------------------------------|-------------|
| Numerical shortage in 1991 | 0.54 |
| No.of substandard huts which need to be reconstructed. | 5.50 |
| No.of houses which required major repair/ reconstruction. | 2.70 |
| | 8.74 |

9.85 It is projected that State's population would increase from 290 lakhs in 1991 to 328 lakhs by 2001 AD; an increase of about 38 lakhs. Assuming the average house hold size of 5.3, the number of houses required for accommodating the increase in population would be 7.2 lakhs. Thus the total demand for construction of houses during the period 1991-2000 is approximately 16 lakhs.

Houses constructed by public sector agencies.

9.86 Several Government / quasi Government agencies are involved in implementing housing programmes in the state. The principal departments and agencies involved are Rural Development Department, SC/ST Department, Kerala State Housing Board and Kerala State Co-operative Housing Federation. From the Ninth Plan even local bodies can involve themselves in housing.

9.87 During the last two decades as many as 274622 houses were constructed up to 31-3-1986. The house construction activity by public sector agencies received momentum and during 1996-97 public sector agencies assisted/constructed 78000 houses in Kerala. The relevant data on physical achievement of various housing schemes right from inception are furnished in Appendix-9.77. Of the 6.55 lakh families

assisted during April 1986 to March 1997 (for house construction activities) 28926 families were assigned land free of cost for constructing houses.

9.88 The Housing Board has been implementing several housing schemes for the benefit of the people belonging to different strata. It had assisted the construction of 1.03 lakh houses up to 31-3-1992 by implementing 31 schemes. During the 8th Plan period it assisted 2.41 lakh houses and after that up to 30-11-1997 the Board assisted 24254 houses. The relevant data are given in Appendix 9.79

9.89 The Kerala State Cooperative Housing Federation which is the apex financing agency in the cooperative housing sector had raised a total of Rs.224.28crores up to 31.3.96 and advanced loan for the construction of 83695 houses through its 207 primary societies.

9.90 Maithri is the major economically weaker section housing scheme newly introduced during 1996. An attempt was made to estimate the subsidy component under major housing schemes. Out of Rs. 30,000 under Maithri Housing Scheme, Rs. 9000 is given as outright cash subsidy at the time of disbursement of loan. Further 8.5 percent is the interest subsidy allowed which amounts to Rs. 16128 per unit of house. In the case of EWS cash loan scheme, only loan component is lower, but the outright subsidy and interest subsidy allowed are on par with Maithri. The Scheduled Caste Development Department, Scheduled Tribe Development Department and the Fisheries Department provides Rs. 35000 as grant towards the entire cost of construction for EWS houses. Though Government of India grants Rs. 22000 only for EWS houses under Jawahar Rozgar Yojana and Indira Awas Yojana (in order to equate with other EWS housing schemes implemented by the above mentioned agencies) the State Government subsidises an additional Rs. 13000 per unit. The present position highlighting the unit cost of construction and subsidies allowed are presented in Appendix 9.80

Ninth Five Year Plan and Housing

9.91 It has been estimated that 9.15 lakh houses are to be constructed during the Ninth Five year plan for solving the housing problem of the State. As a significant departure from the previous Five year plans, priority has been accorded for repair, renovation and construction of houses for economically weaker sections. The state sector input has to be largely shared to the weaker sections during the Ninth Five year plan. The State Sector Plan provision during the Ninth Five Year Plan is Rs 100.48 crores. An investment of Rs. 320 crores is expected from local bodies. All EWS housing schemes, repair, renovation and other functions have been transferred to local bodies

LABOUR AND LABOUR WELFARE

Growth of ITIs and ITCs in Kerala

9.92 There were 32 Industrial Training Institutes in the Government sector and 354 Industrial Training centres in the State by the end of 8th plan. During 1997-1998 only one new ITI has been started. In the 32 ITIs, eight are meant exclusively for women.

9.93 In 354 Industrial Training Centres in the private sector the total seat strength is of 42000. Besides there were 2 Advanced Vocational Training Institutes and one Basic Training Centre. The growth of ITIs and ITCs from 1961 to 1997 can be seen in Appendix 9.81 and district-wise details with seat strength are given in Appendix 9.82

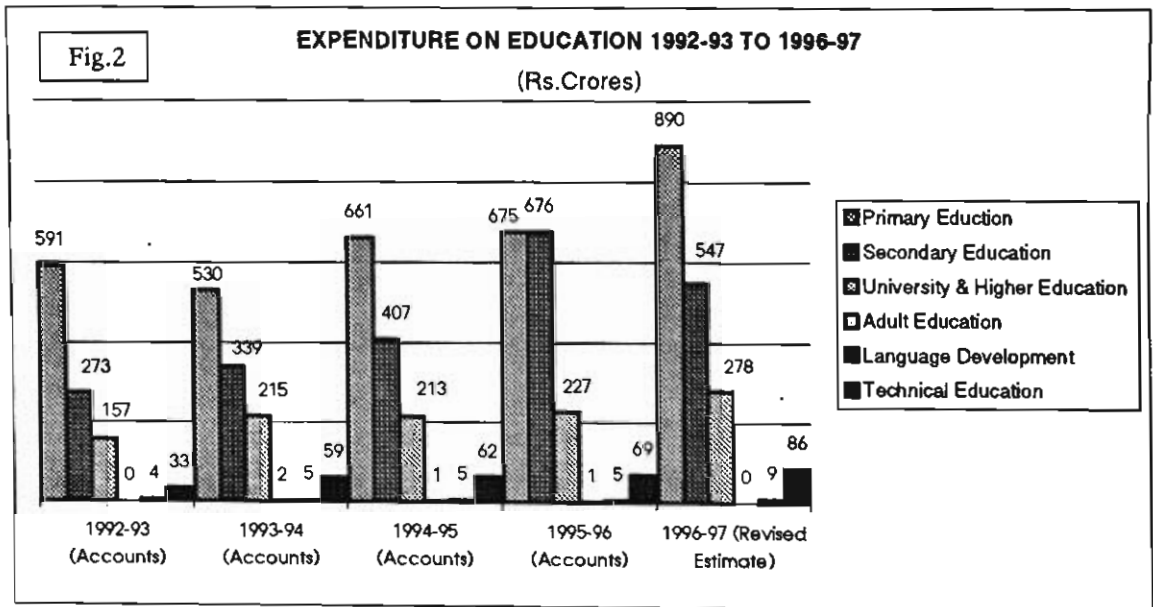
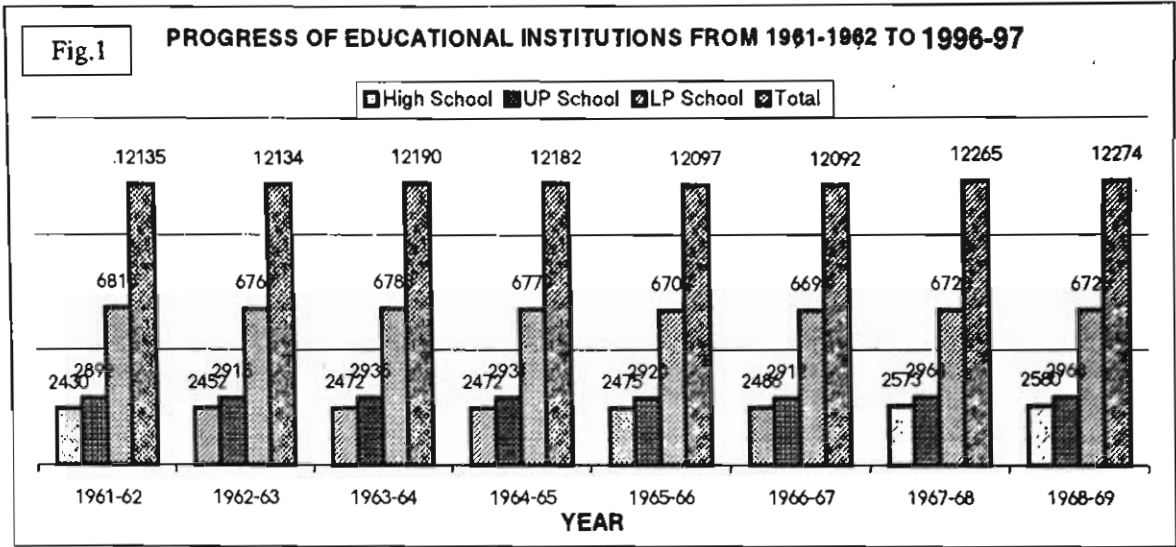
9.94 Apprenticeship training which is implemented since 1963, covers 55 trades. Altogether 4000 trainees were trained in these trades every year. Besides, 356 trainees sponsored by the Kerala Labour Welfare Fund Board were trained in 13 ITIs. Also, 297 Scheduled Caste and Scheduled Tribe students were trained in 14 ITIs during 1997.

Trade-wise intake in ITIs and ITCs

9.95 Out of the total 54178 seat strength in ITIs and ITCs, the constitution of ITIs were 22 percent and ITCs, 78 percent. Further analysis showed that of the 12346 students admitted under one year

course, 29 percent are in Government ITIs and 71 percent in private ITCs. In ITIs, 3600 students are admitted under 16 trades of one year course. Girls constituted 20 percent (713), and 10 percent (363) were SCs and 27 STs. In ITCs, 8746 students are admitted in 18 trades for one year courses. Of this 36 percent (3152) are girls, 5 percent (443) SCs and one percent (82) are STs. The girls enrolment has been higher in ITCs as compared to ITIs. An analysis of the trade-wise intake shows that the highest number (3420) of enrolment is Data Preparation and Computer Software in ITCs of which 65 percent are girls. Stenography (English) and plumber trades are also highly demanding trades which constituted 19 and 18 percent of the total enrolment.

9.96 The seat strength in two year's courses stood at 41822 of which ITIs constituted 20 percent and ITCs 80 percent. A further analysis would bring out that, out of 8336 students admitted under 18 trades in ITIs, girls accounted to 13 percent (1066) and 10 percent (789) were accounted for by SCs and 36 ST trainees. Out of 33486 students under 14 trades in two year course in ITCs, less than 13 percent (4249) are girls, 6 percent (2021) Scheduled Castes and 40 Scheduled Tribes. An analysis of the intake under various trades reveals that 38 percent are undergoing electrician trade in ITCs followed by fitter and electronic mechanic trades. The trade-wise intake in Government ITIs and private ITCs are given in annexures 9.83 and 9.84.



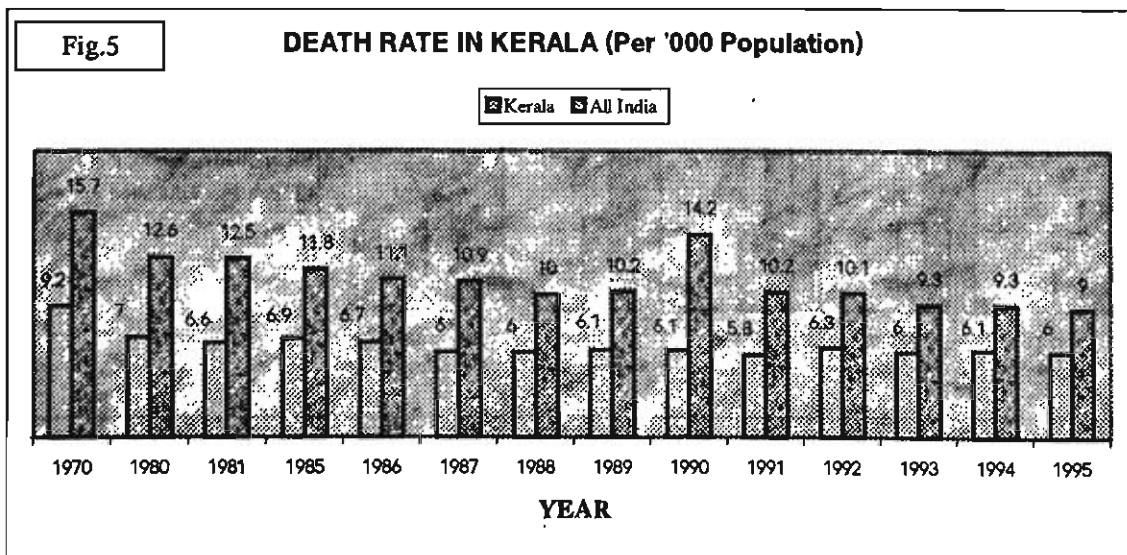
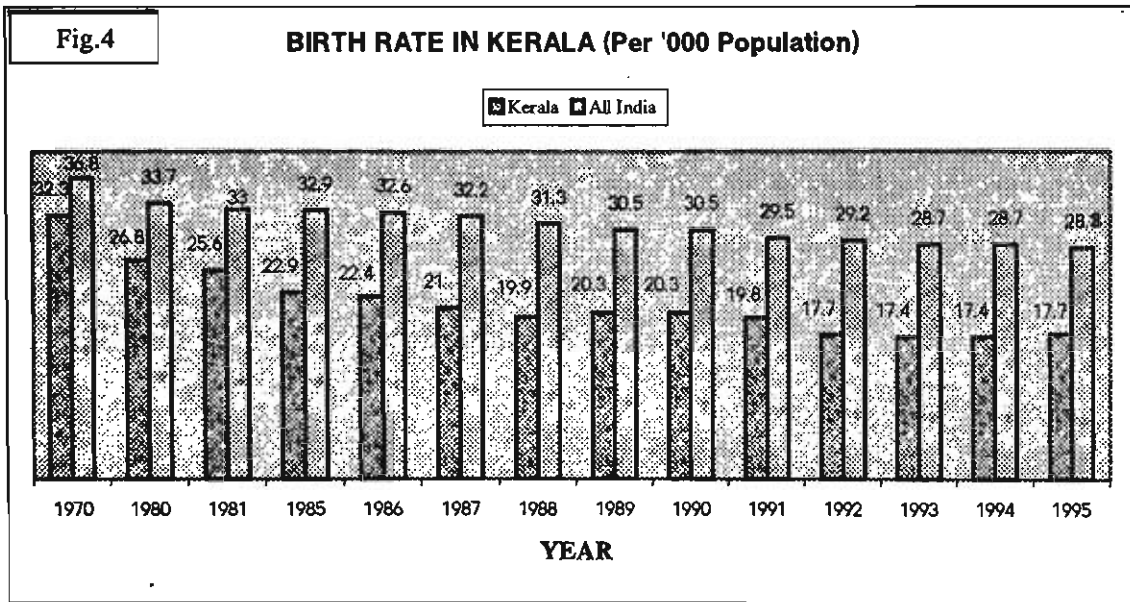
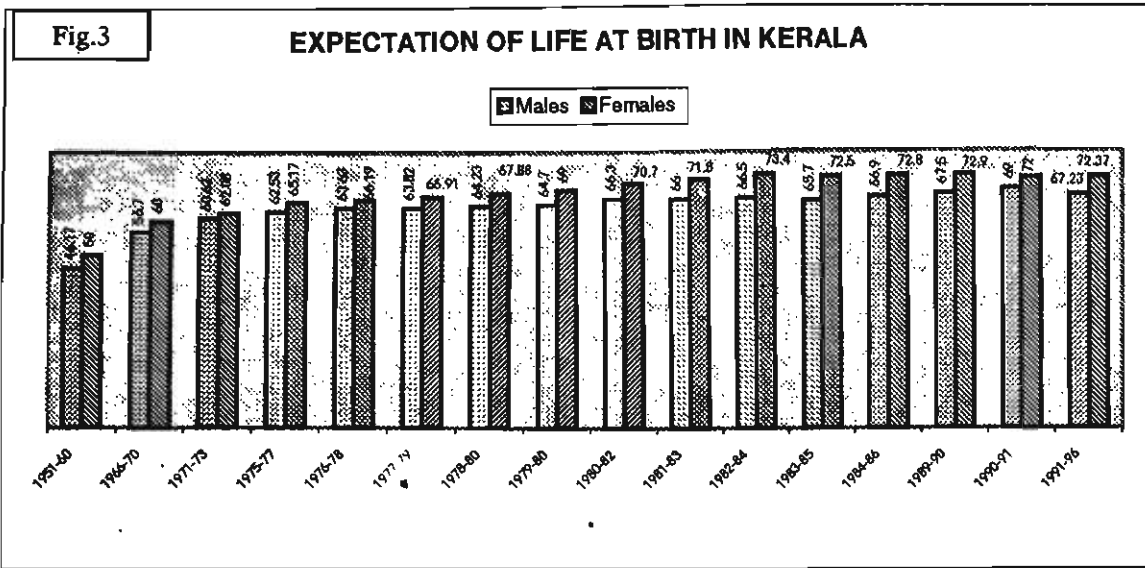


Fig.6

INFANT MORTALITY RATE IN KERALA (Per '000 Population)

■ Kerala ■ All India

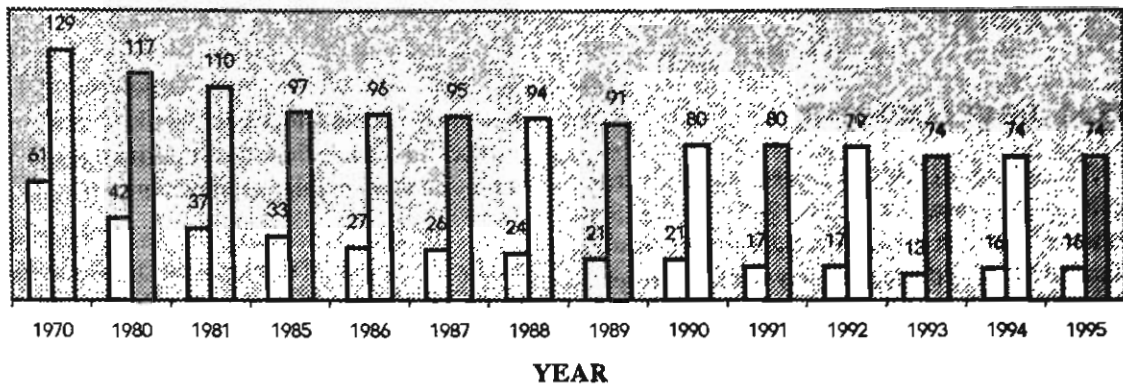
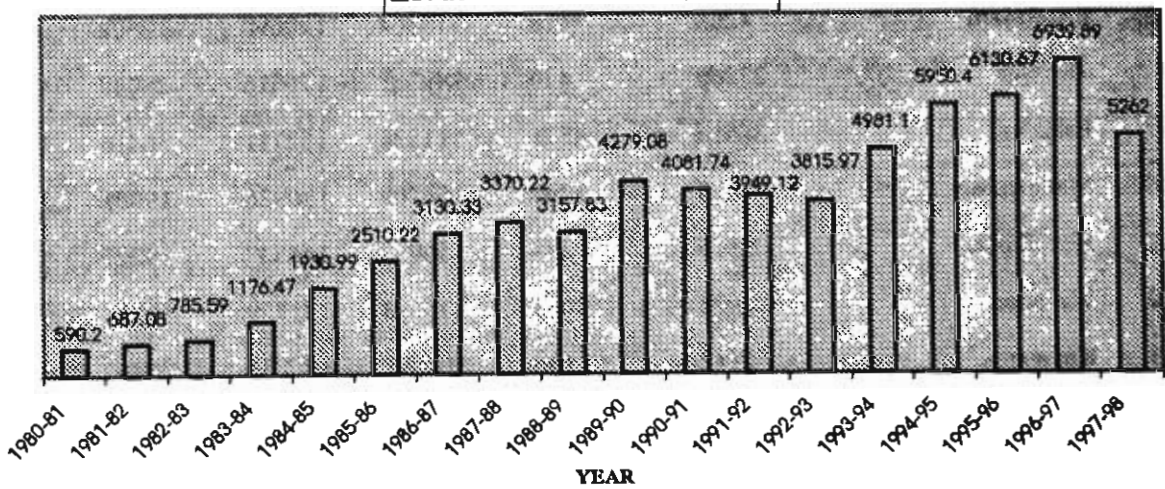


Fig.7

EXPENDITURE ON FAMILY WELFARE PROGRAMME

■ Both Plan & Non Plan Amount (Rs lakhs)



SPECIAL PROGRAMME FOR WEAKER SECTIONS

RURAL DEVELOPMENT

According to 1991 census, Kerala's rural population accounts for nearly 74% of the State population, and with majority are dependent on weak productive assets and wage employment. Rural sector of Kerala is therefore, characterised by low standard of living when compared to their urban counterparts. Poor assets, low level of income and consumption and continued pressure on land for livelihood are the characteristic features of rural backwardness. As such, the rural poor also suffer from

inadequate access to basic facilities and essential services like education, health, drinking water, sanitation, shelter, regular employment etc.

10.2 According to the IRDP survey conducted by Rural Development Department in 1990 nearly 17 lakh families are still below poverty line in the state. The list was further revised and as on July 1995, total number of families below poverty line is 20.73 lakhs in Kerala. Of them, 2.30 lakhs belong to SC/ST communities. The details of survey are given in Table 10.1

Table 10.1
Number of Families Below Poverty Line - IRDP Survey 1990

| District | Scheduled Castes | Scheduled Tribes | Others | Total Families | Households added in July 1995 | Total |
|-----------------------|------------------|------------------|----------------|----------------|-------------------------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. Thiruvananthapuram | 34280 | 2161 | 166818 | 203259 | 20331 | 223590 |
| 2. Kollam | 24458 | 95 | 161115 | 185668 | 14887 | 200555 |
| 3. Pathanamthitta | 1895 | 722 | 54710 | 69327 | 14429 | 83756 |
| 4. Alappuzha | 7871 | 47 | 126604 | 134522 | 11081 | 145603 |
| 5. Kottayam | 4454 | 749 | 104073 | 109276 | 23609 | 132885 |
| 6. Idukki | 10319 | 6422 | 59464 | 76205 | 35740 | 111945 |
| 7. Ernakulam | 4208 | 118 | 116364 | 120690 | 12602 | 133292 |
| 8. Thrissur | 27265 | 430 | 148321 | 176016 | 28040 | 204056 |
| 9. Palakkad | 36614 | 4571 | 111526 | 152711 | 36416 | 1891287 |
| 10. Malappuram | 13470 | 1247 | 156209 | 170926 | 19001 | 189927 |
| 11. Kozhikode | 9316 | 288 | 156933 | 166537 | 19927 | 186464 |
| 12. Wayanad | 2023 | 14063 | 35673 | 51759 | 17514 | 69273 |
| 13. Kannur | 1142 | 196 | 104897 | 106235 | 23350 | 129585 |
| 14. Kasaragode | 7223 | 2555 | 53965 | 63743 | 9448 | 73191 |
| Total | 196538 | 33664 | 1556672 | 1786874 | 286375 | 2073249 |

10.3 The details of SC and ST families, below poverty line as on 1-1-1994 are given in Table 10.2

Table 10.2
Number of SC/ST Families Below Poverty Line as on 1-1-1994

| District | 1990 Survey | Additionally included in 1994 | Total No. |
|-----------------------|---------------|-------------------------------|---------------|
| 1 | 2 | 3 | 4 |
| 1. Thiruvananthapuram | 36441 | -- | 36441 |
| 2. Kollam | 24553 | -- | 24553 |
| 3. Pathanamthitta | 14617 | 1072 | 16689 |
| 4. Alappuzha | 7918 | 420 | 8338 |
| 5. Kottayam | 5203 | 602 | 5805 |
| 6. Idukki | 16741 | 1098 | 17839 |
| 7. Ernakulam | 4326 | 365 | 4691 |
| 8. Thrissur | 27695 | 105 | 27800 |
| 9. Malappuram | 14717 | 531 | 15248 |
| 10. Palakkad | 41185 | 625 | 41810 |
| 11. Wayanad | 16086 | 1687 | 17773 |
| 12. Kozhikode | 9604 | 346 | 9950 |
| 13. Kannur | 1338 | 203 | 1541 |
| 14. Kasaragode | 9778 | 834 | 10612 |
| Total | 230202 | 8888 | 239090 |

10.4 During the Eighth Plan period an amount of Rs.573.50 crores was spent against a budgetted outlay of Rs.573.54 crores including central share on anti-poverty programmes. On non-plan account an expenditure of Rs.121.05 crores was recorded against a provision of Rs.124.42 crores during Eighth Plan period. Schematic outlays and expenditure and physical targets and achievements of major poverty alleviation programmes of Rural Development Sector during Eighth Plan period is shown in Appendices 10.1&10.2

10.5 With the devolution of planning at the local level to panchayats the implementation of various rural development programmes has to be through local bodies. In particular, selection of beneficiaries has to be made by GramaSabhas.

10.6 A brief review of major programmes being implemented in the state is given below.

1. Integrated Rural Development Programme (IRDP)

10.7 IRDP was introduced in the state in 1978-79 in 58 selected blocks and extended to 5 more blocks in 1979-80. Now this programme is being implemented in all the 152 blocks in the State through 14 DRDAs. IRDP is a 50% centrally sponsored credit linked scheme to assist identified poor families in the rural areas to cross poverty line by taking up suitable self employment ventures generating additional income. A family whose annual income at 1991-92 prices is below Rs.11,000/- is considered below poverty line. Families whose annual income below a "cut off"

line of Rs.8,500 are first assisted. A substantial part of total outlay is earmarked for families belonging to SC/ST communities, women and physically handicapped. A group approach has been introduced recently in order to make the programme a more effective tool for poverty alleviation. During Eighth Plan 2,80,000 families were targetted for assistance under the scheme, of which 1,40,000 families were to be SC/ST. Against this target, 2,42,556 families have been assisted. Table 10.3 shows physical and financial achievements of the programme since Sixth Five Year Plan.

Table 10.3
Achievement under IRDP

| Plan Period | Families assisted | Subsidy (Rs. lakhs) | Loan (Rs. lakhs) | Per family assistance (Rs.) |
|------------------------------|-------------------|---------------------|------------------|-----------------------------|
| 1 | 2 | 3 | 4 | 5 |
| VI Plan | 508985 | 4512.52 | 13115.54 | 3463 |
| VII Plan | 486615 | 7461.03 | 15628.60 | 4745 |
| Annual Plan (90-91 to 91-92) | 118849 | 3315.62 | 5030.10 | 7022 |
| VIII Plan | | | | |
| 1992-93 | 50517 | 1485.29 | 2250.78 | 7369 |
| 1993-94 | 53698 | 1797.63 | 2645.93 | 8275 |
| 1994-95 | 46294 | 2173.12 | 3987.02 | 13307 |
| 1995-96 | 43357 | 2008.70 | 5239.08 | 16717 |
| 1996-97 | 48690 | 2285.82 | 6530.87 | 18108 |
| VIII Plan Total | 242556 | 9749.22 | 20653.68 | 11763 |

10.8 The sector-wise analysis of IRDP schemes shows a slight shift in activity from primary sector to secondary and tertiary sectors. In 1981-82, about 69% of schemes were implemented under primary sector. The rate has since then declined and was 41% in 1996-97. In 1981-82 the utilisation of funds for secondary and tertiary sectors were 10% and 21% respectively. By 1996-97, they have increased to 25% and 34% respectively. The details are given in Table 10.4.

Table 10.4

Sector-wise Breakup of the IRDP Schemes

| Year | Primary Sector (No. of Schemes) | % | Secondary Sector (No. of Schemes) | % | Tertiary Sector (No. of Schemes) | % |
|---------|------------------------------------|----|--------------------------------------|----|-------------------------------------|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1981-82 | 70058 | 69 | 9576 | 10 | 21694 | 21 |
| 1985-86 | 36920 | 40 | 11620 | 16 | 24706 | 34 |
| 1990-91 | 27836 | 43 | 13610 | 21 | 23054 | 36 |
| 1992-93 | 22142 | 42 | 11757 | 23 | 18398 | 35 |
| 1995-96 | 20058 | 42 | 11505 | 24 | 15654 | 34 |
| 1996-97 | 21625 | 41 | 13282 | 25 | 8364 | 34 |

Training of Rural Youths for Self Employment (TRYSEM)

10.9 TRYSEM as a component of IRDP is envisaged as a supplementary package programme. It has two components namely, training and infrastructure. TRYSEM training aims at imparting training to rural youths in the age group of 18-35 years, drawn from below poverty line, on basic technical and managerial skills to enable them to take up self employment ventures in the broad fields of agriculture and allied activities, industries, service sectors etc. 50% youths selected will be SC/ST. Successfully trained rural youths will be assisted for starting own enterprises with loan and subsidy under IRDP. In 1996-97 against a target of 6080 rural youths, 5036 youths have been trained under the programme. Of which 1234 youths have been assisted for starting own enterprises and 3172 youths have been engaged in wage employment. TRYSEM infrastructure aims at giving infrastructural support to TRYSEM training. Under this component infrastructural supports are provided for training institutions. Physical and financial achievements under the programme since Sixth Five Year Plan is shown in Table 10.5

Table 10.5

Achievement of TRYSEM

| Plan period | Target for Training | No. of Youths trained | % of Achievement | No. of Youth Self Employed | No. of Youths wage Employed | Expenditure (Rs. in lakhs) |
|-----------------------------------|---------------------|-----------------------|------------------|----------------------------|-----------------------------|----------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. VI Plan | 36602 | 25787 | 70 | 7775 | 6863 | 128.85 |
| 2. VII Plan | 302000 | 26472 | 88 | 8503 | 10355 | 602.54 |
| 3. Annual Plan (90-91 & 91-92) | 18200 | 12783 | 70 | 3522 | 5390 | 380.91 |
| 4. VIII Plan | | | | | | |
| 1992-93 | 7570 | 7919 | 105 | 1553 | 3856 | 222.85 |
| 1993-94 | 6682 | 5549 | 83 | 1212 | 2891 | 247.29 |
| 1994-95 | 6080 | 5854 | 96 | 1890 | 3431 | 281.32 |
| 1995-96 | 6080 | 4860 | 80 | 1437 | 2828 | 237.66 |
| 1996-97 | 6080 | 5036 | 83 | 1234 | 3172 | 158.65 |
| VIII Plan Total | 32492 | 29218 | 90 | 7326 | 16187 | 1147.77 |

Development of Women and Children in Rural Areas (DWCRA)

10.10 Development of Women and Children in Rural Areas is a sub component of IRDP with the prime objective of providing women members of the family below poverty line, the opportunity of self employment on a sustained basis. As different from the family approach under IRDP, DWCRA follows a group strategy, a group consisting of 10-15 women.

Such groups would be the focus of convergence of the activities like social welfare, health, nutrition, employment and education. In 1996-97 against a target of 1080 groups, 962 groups have been formed with the financial assistance of Rs.202.07 lakhs. Out of 962 groups formed, 738 groups have started income generating activities. Table 10.6 shows the physical and financial achievement of the programme since Sixth Five Year Plan.

Table 10.6
Achievement under DWCRA

| Plan period | No. of Groups Formed | | | No. of groups started functioning | Percentage | Expenditure (Rs. in lakhs) |
|--------------------------------|----------------------|-------------|------------|-----------------------------------|------------|----------------------------|
| | Target | Achievement | Percentage | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. VI Plan | 150 | 81 | 54 | 57 | 70 | 18.88 |
| 2. VII Plan | 775 | 803 | 104 | 826 | 103 | 65.82 |
| 3. Annual Plan (90-91 & 91-92) | 655 | 443 | 68 | 308 | 70 | 70.68 |
| 4. VIII Plan | | | | | | |
| 1992-93 | 260 | 241 | 93 | 202 | 84 | 41.10 |
| 1993-94 | 800 | 551 | 69 | 297 | 54 | 77.92 |
| 1994-95 | 797 | 753 | 94 | 629 | 84 | 105.78 |
| 1995-96 | 720 | 797 | 95 | 649 | 82 | 147.95 |
| 1996-97 | 1080 | 962 | 89 | 738 | 77 | 202.07 |
| VIII Plan Total | 3777 | 3304 | 87 | 2515 | 76 | 574.82 |

Jawahar Rozgar Yojana (JRY)

10.11 Jawahar Rozgar Yojana is an intensive employment generation programme started in 1987 by merging NREP and RLEGP. As a poverty alleviation programme having direct impact on the incidence of poverty, JRY aims to create additional gainful employment for the unemployed and underemployed persons in rural areas. As part of the programme it envisages strengthening of rural economic infrastructure and creation of durable community assets, to improve quality of rural life. The physical and financial achievements under JRY since Seventh Five Year Plan are given in Table 10.7. The details of main assets created under JRY during the period from 1989-90 to 1996-97 are given in Table 10.8. The number of houses constructed under JRY is given in Table 10.9

Table 10.7

Physical and Financial Achievements under JRY

| Plan period | Physical Achievement | | Expenditure | |
|--------------------------------|----------------------|---------------|-------------|-----------------|
| | Target | Achievement | % | Rs. lakhs |
| 1 | 2 | 3 | 4 | 5 |
| 1. VII Plan | 214.18 | 213.79 | 100 | 6587.35 |
| 2. Annual Plan (90-91 & 91-92) | 383.81 | 358.04 | 93 | 14072.71 |
| 3. VIII Plan | | | | |
| 1992-93 | 138.63 | 134.57 | 97 | 6843.94 |
| 1993-94 | 113.47 | 120.43 | 106 | 7788.38 |
| 1994-95 | 97.10 | 101.01 | 104 | 7234.60 |
| 1995-96 | 108.01 | 127.75 | 118 | 8888.24 |
| 1996-97 | 59.73 | 105.87 | 177 | 7271.28 |
| VIII Plan total | 516.94 | 589.63 | 114 | 38026.44 |

Table 10.8

Details of Main Assets Created Under JRY

| Assets | 1989-90 | 90-91 | 91-92 | 92-93 | 93-94 | 94-95 | 95-96 | 96-97 |
|-------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. Million Wells (No.) | - | 444 | 1740 | 3893 | 3064 | 3218 | 3468 | 2268 |
| 2. Irrigation Wells No. | 390 | 222 | 273 | 293 | 143 | 73 | 55 | 51 |
| 3. Drinking Water Wells (No.) | 954 | 546 | 433 | 309 | 359 | 340 | 288 | 404 |
| 4. Roads (Km.) | 3532 | 2144 | 1874 | 1767 | 1587 | 990 | 848 | 802 |
| 5. School Buildings (No.) | 57 | 73 | 53 | 47 | 70 | 35 | 32 | 23 |
| 6. Sanitary Latrines (No.) | 7853 | 7622 | 6112 | 4516 | 4620 | 4313 | 4556 | 12453 |

Table 10.9

Houses Constructed Under JRY

| Period | No. of Houses Constructed |
|--------------|---------------------------|
| 1 | 2 |
| 1989-90 | 6349 |
| 1990-91 | 14255 |
| 1991-92 | 22182 |
| 1992-93 | 16533 |
| 1993-94 | 16999 |
| 1994-95 | 18549 |
| 1995-96 | 29368 |
| 1996-97 | 29952 |
| Total | 154187 |

Employment Assurance Scheme (EAS)

10.12 The employment Assurance Scheme as a centrally sponsored programme was launched first in 21 blocks in seven districts in the state in 1994, where revamped public distribution system was in operation. The objective of the scheme is to provide 100 days of assured employment to the below

poverty families during the lean agricultural season at the minimum wages on non-farm and allied activities. This programme has been extended to 60 more blocks in 1996-97. In 1996-97 under the programme 28.76 lakh man days were generated with an expenditure of Rs.20.63 crores. Table 10.10 shows district-wise number of works taken up and completed with employment generation.

Table 10.10

Progress of Employment Assurance Scheme 1996-97

| District | Blocks Covered (No.) | Works Taken-up (No.) | Works Completed (No.) | Employment Generated (lakh man days) | Expenditure (Rs. lakhs) |
|--------------------|----------------------|----------------------|-----------------------|--------------------------------------|-------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Thiruvananthapuram | 7 | 149 | 52 | 4.85 | 327.10 |
| Kollam | 6 | -- | -- | -- | 0.24 |
| Pathanamthitta | 4 | 19 | -- | 0.02 | 1.56 |
| Alappuzha | 6 | -- | -- | 0.46 | 30.60 |
| Kottayam | 6 | 175 | 72 | 4.02 | 272.07 |
| Idukki | 8 | 608 | 311 | 7.43 | 548.19 |
| Ernakulam | 6 | 58 | 21 | 0.41 | 17.34 |
| Thrissur | 8 | -- | -- | -- | 4.41 |
| Palakkad | 7 | 35 | 20 | 0.70 | 47.38 |
| Malappuram | 8 | 187 | 39 | 2.17 | 184.22 |
| Kozhikode | 5 | 90 | 6 | 0.63 | 59.22 |
| Wayanad | 3 | 410 | 144 | 4.27 | 310.58 |
| Kannur | 5 | 238 | 38 | 3.71 | 252.58 |
| Kasaragod | 2 | 28 | 11 | 0.09 | 7.95 |
| Total | 81 | 1997 | 714 | 28.76 | 2063.44 |

Supply of Tool Kits

10.13 Supply of tool kits to rural artisans is an allied programme of IRDP with 100 per cent central assistance. Improved tool kits are supplied to rural artisans to earn higher income in their traditional skills like blacksmithy, carpentry, gold smithy, pottery, leather works, masonry, metal works etc. The physical and financial achievements under the programme during 1996-97 are given in Appendix 10.5.

Peoples' Action for Development - Kerala (PAD-K)

10.14 Peoples' Action for Development - Kerala is nodal agency intended to strengthen and promote voluntary efforts in rural development. It conducts seminars and camps to assist voluntary organisations to prepare projects to get assistance from CAPART. During 1996-97 CAPART sanctioned 76 projects costing Rs.316.05 lakhs, on the basis of recommendation of Peoples' Action for Development - Kerala.

Kerala Rural Development and Marketing Society (KERAMS)

10.15 Kerala Rural Development and Marketing Society was established in 1986 as an autonomous body to provide marketing facilities to rural artisans, DW CRA units, mahilasamajams, voluntary organisation etc. and also make available raw materials required for the production units. Through "Gramasree", a permanent sales outlet of the organisation, rural products worth Rs.54.82 lakhs were sold during 1996-97. KERAMS has been organising trade fairs during onam festival in all districts. These trade fairs facilitate sales promotions of IRDP products. The sales value of IRDP products through KERAMS is given Appendix 10.6

10.16 The review on the performance of rural development sector to alleviate poverty shows that 3,80,495 families below poverty line have been assisted during the period from 1990-91 to 1997-98. The total subsidy component comes to 13977.43 lakhs

and loan component to Rs.28506.89 lakhs. Appendices 10.3 and 10.4 show scheme-wise and sub-sector wise financial and physical achievements under rural development programme during the Eighth Plan period.

LAND REFORMS

10.17 The major component of the land reforms that is still being carried out is the distribution of the surplus land.

10.18 Since the implementation of Land Reforms Act in the State, 1,37,758 acres of land have been declared as surplus land. An extent of 95,813 acres of land have been taken possession of and 64,575 acres distributed to 1,46,904 families. Table 10.11 shows the achievements under Land Reforms.

Table 10.11

Distribution of Surplus Land and Number of Beneficiaries

| Category | As on 30-11-1996 | | As on 30-11-1997 | |
|------------------|----------------------|---------------|----------------------|---------------|
| | No. of beneficiaries | Area (acre) | No. of beneficiaries | Area (acre) |
| 1 | 2 | 3 | 4 | 5 |
| Scheduled Castes | 62,479 | 25,240 | 62,951 | 25,322 |
| Scheduled Tribes | 7,505 | 5,179 | 7,539 | 5,185 |
| Others | 75,926 | 33,984 | 76,414 | 34,068 |
| Total | 1,45,910 | 64,403 | 1,36,904 | 64,575 |

10.19 The assignees of surplus land are provided with financial assistance for land development. During Eighth Five Year Plan an amount

of Rs.45.67 lakhs has been disbursed as financial assistance for 7317 beneficiaries. In 1996-97, 864 families are assisted, of which 385 are SC/ST beneficiaries. Table 10.12 shows year-wise distribution of assistance and number of beneficiaries. Appendix-10.7 shows district-wise beneficiaries of surplus land and extent of land distributed.

10.20 The scheme of resurvey of the state is being implemented from the year 1966-67 onwards. The resurvey works are in progress in all districts in the state except Kasaragode district. This is a non-plan activity since 1986-87. Out of 32,510 sq.km. to be surveyed in the state, an extent of 22,891.98 sq.km. under field work and an area of 20,234.19 sq.km. under office work have been completed till 31-7-1997. Out of the 903 villages taken up for resurvey, field work of 790 villages have been completed, 640 villages have been finalised and the records in respect of 615 villages have been implemented in revenue administration. To dispose of complaints against survey records Government have been organising survey Adalath since 1-8-1995 in the villages where the resurvey has been completed. A total number of 4,82,828 petitions have been received in Adalath of which 4,22,880 petitions have been disposed off.

WESTERN GHATS DEVELOPMENT PROGRAMME

10.21 Western Ghats Development Programme is a centrally sponsored programme with 100% central assistance. This programme forms part of Hill Area Development Programme initiated by Planning Commission during Fifth Five Year Plan. The programme aims at the ecological and economic development of the area through integrated development of Western Ghats Region with people's participation. This programme is being implemented in 31 taluks of the State. Major schemes implemented

Table 10.12

Financial Assistance to the Assignees of Surplus Land - Achievement

| Sl.No. | Particulars | Unit | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | Total |
|--------|-------------------------------------|------|--------------|--------------|--------------|--------------|------------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Total Amount Sanctioned (Rs. lakhs) | | 30,00,000 | 30,00,000 | 30,00,000 | 30,00,000 | 15,00,000 | 1,35,00,000 |
| 2. | Amount Spent (Rs. lakhs) | | 4,54,878 | 5,55,444 | 5,92,754 | 9,56,292 | 20,07,674 | 45,67,042 |
| 3. | No. of beneficiaries | | | | | | | |
| a. | General | | 746 | 1,014 | 984 | 615 | 479 | 3,838 |
| b. | Scheduled Castes | | 884 | 655 | 798 | 458 | 57 | 2,852 |
| c. | Scheduled Tribes | | 122 | 120 | 56 | 1 | 328 | 627 |
| | Total No. of beneficiaries | | 1,752 | 1,789 | 1,838 | 1,074 | 864 | 7317 |

under the programme includes watershed development, forestry, village and small industries horticulture, soil conservation, minor-irrigation dairy development, agriculture etc. During 1996-97, an amount of Rs.938.90 lakhs was expended against the outlay of Rs.952.00 lakhs. The sub sector-wise outlays and expenditure under Western Ghats Development Programme during Eighth Five Year Plan are given in Table 13.

Table 10.13

Financial Outlays and Expenditure During Eighth Plan Period Under W.G.D.P.

| Sl. No. | Sectors | Outlays (Rs. in lakhs) | Expenditure (Rs. in lakhs) |
|--------------|----------------------------|------------------------|----------------------------|
| 1 | 2 | 3 | 4 |
| 1. | Agriculture | 272.75 | 271.84 |
| 2. | Soil Conservation | 994.88 | 1003.38 |
| 3. | Animal Husbandry | 25.69 | 25.64 |
| 4. | Dairy Development | 296.11 | 295.74 |
| 5. | Forestry | 1021.04 | 1005.47 |
| 6. | Minor Irrigation | 875.84 | 858.27 |
| 7. | Water Supply | 195.59 | 198.18 |
| 8. | Horticulture | 109.86 | 109.86 |
| 9. | Foot Bridges | 260.91 | 256.19 |
| 10. | Village & Small Industries | 58.12 | 58.09 |
| Total | | 4110.79 | 4082.66 |

10.22 The financial and physical targets and achievements are given in Appendix 10.8 and 10.9.

SOCIAL SECURITY AND WELFARE

10.23 Social Security and Welfare constitute an integral part of the functions of a modern democratic Government. Over the last four decades successive governments in Kerala introduced a variety of social security schemes through institutional and non-institutional Social Security measures. The basic objective of the initiatives is of reducing income insecurity and deprivation among the weaker segments of the society. In Kerala there are as many as 30 social security initiatives covering the poor aged agricultural workers, widows, destitutes, handicapped, khadi workers, coir workers, cashew workers, handloom workers and so on. The various major pension and welfare fund schemes benefited about 12.06 lakh persons and expenditure amounted to about Rs.107.33 crores during 1997. An attempt is made to describe briefly the present status of schemes implemented in Kerala.

Institutional care

10.24 The Government and voluntary agencies extend assistance to the orphan children,

disabled children, aged, infirm and other special categories like cured mental patients, leprosy patients and so on through various institutional measures. In Kerala at present institutional care is provided to about 54344 persons, of which 44728 are orphan children and 4721 are aged and infirm. The details of institutional intervention and coverage are given in Appendix 10.10

Major Pension Schemes

10.25 Three major pension schemes are being implemented in the State. (i) Kerala Agricultural workers pension-scheme (ii) Kerala Destitute pension scheme and (iii) special pension scheme for Handicapped. The rate of assistance under Kerala Agricultural workers Pension Scheme has been increased from Rs.70 in 1995 to Rs.80 in 1996 and further to Rs.100 in 1997. The Scheme benefited 3,12,944 persons during 1997. The Kerala Destitute Pension Scheme benefited 1,42,500 persons during 1997. The rate of assistance under this scheme was increased from Rs.100 in 1996 to Rs.110 per month in 1997. The rate of assistance for the Special Pension Scheme for the handicapped was also increased from Rs. 100 in 1996 to Rs. 110 per month in 1997 and benefited 94,800 persons during 1997.

10.26 The Government have constituted statutory boards for implementation of major social security initiatives for coir workers, cashew workers, handloom workers, Khadi workers, abkari workers, motor transport workers, head load workers and so on. The eligibility criteria, benefit pattern etc. differ from scheme to scheme as framed under different Acts. A summary position of schemes reflecting the eligibility criteria, rate of assistance, beneficiaries covered etc. are presented in Appendix-10.11.

NUTRITION

Nutrition Status in Kerala

10.27 Mal-nutrition is one of the most important health problem in the state. That is why a considerable percentage of the children born here are underweight and have below average height. The food consumption surveys right from 1960's have revealed a high degree of under nourishment in Kerala. National Sample Survey 1961-62 revealed that the average daily food intake in Kerala yielded 1620 calories per capita, per day. This was less than three fourth of the recommended level. The Survey conducted by National Nutrition Monitoring Bureau during 1988 and 1990 revealed that the intake of cereals and millets in Kerala was below the recommended level by about 20%. In the case of pulses, the intake was 55% below the recommended level. The intake of green leafy vegetables is about

77.5% and milk about 42% below the recommended level. The calorie and protein intake are below by about 11% and 4% respectively. The intake of Calcium alone was found to be at the recommended level. But consumption of iron was below the recommended level by about 8% and that Vitamin-A, about 60% below the recommended level.

10.28 Protein, energy malnutrition, is the most wide spread form of malnutrition among preschool children in the State. It was observed that 47.4% children suffered from mild form of malnutrition, 32.9% suffered from moderate form of malnutrition and 2% suffered from severe form of malnutrition.

NUTRITION PROGRAMMES IMPLEMENTED IN KERALA - AN OVER VIEW.

Integrated Child Development Programme (ICDS)

10.29 The objective of the Integrated Child Development Scheme is to combat malnutrition by providing 300 calories and 8.12 gms of protein per beneficiary in the age group of 0-6 years and 500 calories and 25 gms of protein per day for pregnant woman and nursing mother. Food will be provided to these beneficiaries for about 300 days in an year. There were 120 ICDS projects in 1997 in the State of which 111 were rural projects, 1 tribal project and 8 urban projects. There were 15605 anganwadis in the state benefiting 10.32 lakh children and women which worked out to 8600 beneficiaries on an average per project. The project wise details of ICDS beneficiary is given in Appendix-10.12

Non-ICDS

10.30 There were 39 non-ICDS blocks which covered 1.23 lakh beneficiaries through a network of 913 feeding centres. The per beneficiary cost of feeding for women and children was Rs.1.20 and Rs.0.80 respectively to provide 300/500 calories and 8.12/25 gms of protein per person per day.

Mid-day meals in Schools.

10.31 The School meals feeding for poor L.P/U.P children is being implemented by the Education Department. During 1997, 23.75 lakh children were benefited by the programme. Mid-day meals were given to children in schools through 11370 centres. Noon feeding was provided for 180 days to the children and per child cost works out to Rs.144 per year. For every beneficiary child, 60 gms of rice, 30 gms of green gram and one gram oil was served. An amount of Rs.21.26 crores was spent for implementation of this programme during 1996-97.

The details showing number of centers, 1 beneficiaries of the feeding programmes implemented by Social Welfare, Rural Development and Education Department are given in Appendix-10.13

Ninth Five Year Plan and Social Security

10.32 The thrust during the 9th Five Year Plan is on upgradation of the existing institutions and optimum utilisation of the created infrastructure. The state sector outlay provided is Rs. 27.10 crores for 1997-2002. The objective is to universalise ICDS for which Government have decided to implement the ICDS III project with World Bank assistance.

DEVELOPMENT OF SCHEDULED CASTES AND SCHEDULED TRIBES

10.33 Special protective measures to safeguard the interests of Scheduled Castes and Scheduled Tribes and measures to promote their educational and economic progress are being implemented in the State in the true spirit of constitutional provisions. It is to the credit of the general social milieu in the State, besides the measures stated above, the worst forms of caste discrimination have been overcome and perceptible progress achieved in the social sector development of Scheduled Castes and Scheduled Tribes compared to the rest of India. But yet the Scheduled Castes and Scheduled Tribes continue to constitute relatively most backward and vulnerable sections of the population in the State with extremely weak economic base.

10.34 According to 1991 Census the Scheduled Caste population of Kerala is 28,86,522 i.e. 9.9 per cent of the population of the State. The proportion of Scheduled Caste population to total district population is the highest in Palakkad District (15.9%) and the lowest in Kannur District (4.1%). The four districts of Palakkad, Thiruvananthapuram, Thrissur and Kollam together account for nearly half the State's Scheduled Caste population. (See Table 10.14)

10.35 The Scheduled Tribe population of 3,20,967 (1991 Census) constitutes 1.1 per cent of the total population and is even more unevenly distributed across districts. Wayanad alone accounts for nearly 36 per cent of the tribal population. Idukki and Palakkad accounts for another 26 per cent. The lowest proportion of tribal population is in Alappuzha district (0.87%).

10.36 The tribal communities with pre-agricultural stage of development and very low literacy rate are recognised as primitive tribes by Government of India. In Kerala, Cholanaikans, Katunaikans, Kurumbas, Kadars and Koragas have been identified as primitive tribes and they constitute nearly 4.8% of the total Scheduled Tribe population in the State.

Table 10.14

Distribution of Scheduled Castes and Scheduled Tribes Population by District (1991)

| District | Total Population (Lakhs) | Scheduled Castes (Lakhs) | Scheduled Tribes (Lakhs) |
|-----------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 |
| 1. Thiruvananthapuram | 29.38 | 3.43 | 0.16 |
| 2. Kollam | 23.98 | 3.06 | 0.04 |
| 3. Pathanamthitta | 11.87 | 1.58 | 0.07 |
| 4. Alappuzha | 19.90 | 1.90 | 0.03 |
| 5. Kottayam | 18.25 | 1.36 | 0.18 |
| 6. Idukki | 10.77 | 1.57 | 0.50 |
| 7. Ernakulam | 28.12 | 2.42 | 0.05 |
| 8. Thrissur | 27.35 | 3.35 | 0.04 |
| 9. Palakkad | 23.76 | 3.78 | 0.35 |
| 10. Malappuram | 30.93 | 2.56 | 0.11 |
| 11. Kozhikode | 26.14 | 1.85 | 0.05 |
| 12. Wayanad | 6.71 | 0.28 | 1.15 |
| 13. Kannur | 22.44 | 0.91 | 0.18 |
| 14. Kasaragod | 10.70 | 0.82 | 0.29 |
| Total | 290.32 | 28.87 | 3.20 |

10.37 According to a survey by the Forest Department in 1992, 17,156 Scheduled Tribe families are living within the interior forests in 671 settlements. The majority of them is engaged in the collection of minor forest produces and forest protection works.

Economic Status

10.38 An examination of the occupational pattern of the Scheduled Castes and Scheduled Tribes would reveal the relative economic backwardness. It is seen that while agricultural labourers constitute only 25 per cent of the work force in the State, both in the case of Scheduled Castes and Scheduled Tribes, agricultural workers constitute around 55 per cent of the work force. The land reforms ensured ownership of homestead land to the Scheduled Caste families and thus reduced the incidence of landlessness among them but failed to transform them into cultivators. The proportion of cultivators among Scheduled Castes is only 3.1 per cent as against State average of 12.2 per cent.

10.39 Most of the tribal agricultural labourers, particularly in the southern districts, have been victims of tribal land alienation caused by immiserisation process or outright cheating. Even now around 17 per cent of the tribal work force are cultivators. The Scheduled Castes and Scheduled Tribes outside the agricultural sector are employed mostly in other agricultural related activities or in various types of rural wage labour.

10.40 Incidence of organised sector employment among Scheduled Castes and Scheduled Tribes

is relatively low. However due to the reservation policy there has been improvement in government employment. Between 1988 and 1994 the proportion of Scheduled Castes and Tribes in government employment increased from 9.96 per cent to 11.56 per cent.

10.41 The work participation rate among the Scheduled Castes is 41.21 per cent and among the Scheduled Tribes 46.04 per cent, as against state average of 31.43 per cent. Major cause for these higher participation rate is the relatively higher participation of Scheduled Castes/Tribes women. While the State average participation rate of women is 15.85 per cent, the participation rates of Scheduled Caste and Scheduled Tribe women are 31.73 and 36.90 percentage respectively.

10.42 Despite the higher work participation rate of Scheduled Castes and Scheduled Tribes the incidence of poverty is relatively higher among them indicating their low occupation earnings and asset income. As per the IRDP survey 40 per cent of the Scheduled Caste families are below poverty line. The ratio is 48.47 per cent for Scheduled Tribes (1992 data)

Social Indicators

10.43 The literacy rate among the Scheduled Castes have shown significant improvement from 24.4 per cent in 1961 to 79.66 per cent in 1991. But yet it is about 10 per cent below the general literacy rate. Among the Tribals the literacy rate is even lower at 57.22 per cent (1991)

Table 10.15

Certain Selected Characteristics of Scheduled Caste and Scheduled Tribe Population (1991)

| Description | Units | Scheduled Castes | Scheduled Tribes | Total Population |
|----------------------------------------------------------------------------|-------|------------------|------------------|------------------|
| 1 | | 2 | 3 | 4 |
| Households | No. | 593676 | 69441 | 5513200 |
| Population | " | 2886522 | 320967 | 29098518 |
| Literates | " | 2002786 | 156061 | 22686461 |
| Mainworkers | " | 1062922 | 129297 | 8301087 |
| Marginal workers | " | 126488 | 18474 | 855031 |
| Non-Workers | " | 1697112 | 173196 | 19952400 |
| Size of Household | % | 4.9 | 4.6 | 5.3 |
| Decadal Growth Rate | " | 13.22 | 22.75 | 14.32 |
| Sex Ratio | No. | 1029 | 996 | 1036 |
| Total Literacy Rate | % | 79.66 | 57.22 | 89.81 |
| Male Literacy | " | 85.22 | 63.38 | 93.62 |
| Female Literacy | " | 74.31 | 51.07 | 86.17 |
| Work participation rate | | - | - | - |
| Total | " | 41.21 | 46.04 | 31.43 |
| Male | " | 50.96 | 55.14 | 47.58 |
| Female | " | 31.73 | 36.90 | 15.85 |
| Cultivators | " | 3.10 | 16.66 | 12.24 |
| Agricultural Labourers | " | 53.78 | 55.47 | 22.54 |
| Livestock, Forestry, Fishing, Hunting, Plantations etc. | " | 10.87 | 15.47 | 9.24 |
| Mining and Quarrying, Manufacturing & Processing, Servicing & Repairing | " | 1.88 | 0.33 | 0.99 |
| i. Household Industry | " | 2.44 | 0.47 | 2.58 |
| ii. Other than Household Industry | " | 7.08 | 2.96 | 11.60 |
| Construction | " | 3.60 | 0.48 | 4.00 |
| Trade and Commerce | " | 2.83 | 1.38 | 12.64 |
| Transport, Storage and Communication | " | 2.72 | 1.50 | 5.99 |
| Other Services | " | 10.70 | 5.28 | 15.18 |

10.44 The enrolment of Scheduled Caste and Scheduled Tribe students in schools has increased considerably due to educational incentives offered to them. The enrolment of Scheduled Caste children in the schools is 10.89 per cent and of the Scheduled Tribe children 1.12 per cent as on 1-7-1997 i.e. relatively higher than the population share (Table 10.16). Among college students 13.19 per cent belongs to Scheduled Castes and Scheduled Tribes communities. (The details are given in Table 10.17). The enrolment of Scheduled Castes and Scheduled Tribes in the technical institutions during 1996-97 is 12523 and 172 respectively (Table 10.18). In the same year, 43 Scheduled Caste students and 11 Scheduled Tribe students are admitted to MBBS courses.

10.45 It is estimated that only 40 per cent of the Scheduled Caste families live in identified habitats or colonies. The tribal population has a much higher degree of clustered settlement pattern. Despite various habitat development programmes, the basic amenities in these settlements are far

from satisfaction. Housing is the most serious felt basic need. Unfortunately there are no state level reliable data regarding housing requirements. According to an estimate provided by the department, the housing requirement of Scheduled Castes family would be around 1 lakh houses at the beginning of Ninth Five Year Plan.

10.46 The data made available through the continuous monitoring of families in 10 villages by Kerala Statistical Institute has provided interesting information regarding the living conditions of Scheduled Caste households. Between 1986-87 and 1990-91 semi-pucca or pucca houses increased by 58 per cent; electrified houses by 48 per cent and households with sanitary latrines nearly doubled. The rate of improvement have been much higher for the Scheduled Caste population than other sections. Still it was seen that more than 50 per cent of the Scheduled Caste households lacked adequate housing, 79 per cent did not have electricity connection and 81 per cent did not have sanitary latrines.

Table 10.16

Enrolment of Scheduled Caste/ Scheduled Tribe Students at School Level (1996-97)

| Section | General (No.) | Scheduled Castes (No) | Percentage to Total | Scheduled Tribes (No) | Percentage |
|-----------------------|----------------|-----------------------|---------------------|-----------------------|-------------|
| Lower Primary Section | 2140510 | 234270 | 10.94 | 29384 | 1.37 |
| Upper Primary Section | 1789890 | 198026 | 11.06 | 19078 | 1.07 |
| High School Section | 1603824 | 170357 | 10.62 | 13454 | 0.84 |
| Total | 5534224 | 602653 | 10.89 | 61916 | 1.12 |

Table 10.17

Enrolment of Scheduled Caste / Scheduled Tribe Students in Arts and Science Colleges (1996-97)

| Course | Total Strength (No) | SC/ST Students (No) | Percentage to Total |
|--------------------|---------------------|---------------------|---------------------|
| 1. Pre-Degree | 101729 | 15269 | 15 |
| 2. Degree | 46193 | 4150 | 9 |
| 3. Post-Graduation | 5290 | 796 | 15 |
| Total | 153212 | 20215 | 13.19 |

Table 10.18

Enrolment of Scheduled Caste/Scheduled Tribe Students in Technical Institutions during 1996-97

| Institutions | Total(No) | Scheduled Castes(No) | Scheduled Tribes(No) |
|---------------------------|--------------|----------------------|----------------------|
| 1 | 2 | 3 | 4 |
| 1. Engineering Colleges | 2683 | 539 | 43 |
| 2. Poly Technics | 6660 | 1343 | 108 |
| 3. College of Fine Arts | 43 | 16 | -- |
| 4. Technical High Schools | 6155 | 625 | 21 |
| Total | 15541 | 2523 | 172 |

10.47 With respect to the Scheduled Tribes even the social sector improvement, but for literacy, have been meagre. The housing conditions are extremely poor and often the houses provided as part of the development programmes are inappropriate to their requirements. Mal-nutrition and poverty related diseases plagued the tribal population. Case studies have proved prevalence of much higher infant mortality rate and morbidity rate among them. Prevalence of large number of unwed mothers among tribals is a serious sociological problem that needs to be given attention for a solution.

Special Component Plan

10.48 The initial Five Year Plans did not have a separate component for the development of Scheduled Caste except for certain social welfare programmes undertaken by the Scheduled Castes Development Department. The persistence of backwardness of Scheduled Castes drew attention to the need for a new plan strategy. It has proposed that main thrust for development of Scheduled Castes

should come from the general sector and every general department should earmark funds for the welfare of Scheduled Castes. Detailed guidelines for the preparation of the Special Component Plan were issued as part of the Fifth Five Year Plan.

10.49 In 1979 the outlay for SCP was fixed as a percent of the total plan outlay of the state in proportion to the Scheduled Caste population. But a review of the programme revealed that the funds earmarked were significantly lower than the population share, the schemes often were not relevant to the local needs and there was high degree of leakage. In view of this situation it was decided to decentralise Special Component Plan to the district level from 1983-84 onwards.

10.50 The District Level Working Groups (DLWG) were formally constituted with the District Collector as Chairman and the District Planning Officer as Convener. The district level working group was responsible to ensure that each scheme is properly co-ordinated with the rest of the plan and that the habitat level and family level integration are

properly worked out. The annual programme was to be placed before the District Advisory Committee for advice before approval.

10.51 It was stipulated that the responsibility for implementation would continue with the concerned departments but responsibility for achieving co-ordinated targets would rest with the District Collector who was to be assisted by the Working Group. The District Officers of Scheduled Castes and Scheduled Tribes Departments were also given charge of monitoring Special Component Plan and Tribal Sub Plan. The task of reviewing Special Component Plan implementation was entrusted to the District Advisory Committee and the District Development Council.

10.52 The practice followed for providing SCP outlay till 1995-96 was to set apart certain percentage of the plan provision under the concerned Head of Account of concerned departments. Despite repeated government guidelines, on the conceptualisation and implementation of schemes the needs of the Scheduled Caste population did not get translated into feasible working models. The gap between outlay and expenditure was also causing great concern. To correct this anomalous situation, the government introduced the system of pooling of funds with effect from 1996-97.

10.53 Pooling of funds meant that, henceforth, the SCP allocation would fall under one head of account (i.e. that of SC Development), rather than be distributed among the various heads of account. This gave greater freedom in deciding sectoral priorities, indicating sectoral schemes and allocating funds correspondingly. It also enabled more flexibility in the handling of the SCP fund and made it possible to effect reallocation based on mid-term assessment of expenditure patterns and arising demands of various sectors. Pooling of funds thus lent both greater flexibility and greater responsiveness to Special Components Plan

10.54 The decentralisation of SCP resulted an improvement in the SCP allocation and plan implementation. There was also an improvement in the quality of schemes undertaken. However the notional flows continued to be a bane of SCP allocations. In the absence of effective beneficiary participation the decentralisation of SCP tended to be increasingly bureaucratic. In 1997-98 Annual Plan a decisive step was taken towards democratic decentralisation by devolving the planning of SCP to the local bodies. Greater direct participation of the people facilitated by this pressure, it is hoped, will bring about a significant improvement in the effectiveness of the programme.

Tribal Sub Plan

10.55 The life and culture of Scheduled Tribes are entirely different from that of the Scheduled Castes. They are living in close proximity with forests and are therefore isolated from the main stream of social life. Special programmes are being formulated under Tribal Sub Plan for the benefit of the tribal people in the state. The main objective of the Plan is to promote the socio-economic conditions of the Scheduled Tribes and make them free from exploitation. To achieve this objective, Integrated Tribal Development Project (ITDP) was started in the State during the Fifth Five Year Plan. Group as well as family oriented programmes were implemented under this approach. Special projects like Sugandhagiri Cardamom Project, Pookot Diary Project, Priyadarshini Tea Estate, Attappady Co-operative Farming Society and Vattachira Tribal Collective Farm have been started to rehabilitate bonded tribals in the state. Various economic and infrastructural development programmes are under implementation in these projects. In addition to plan funds, financial assistance from other sources are also mobilised for implementing the schemes in these projects.

10.56 As a part of the Tribal Sub Plan strategy, five ITDPs were constituted in the state between 1975 and 1980. Since these ITDPs were constituted east-west along the forest regions, there were a lot of problems regarding their administrative structure. With a view to solve these problems, the ITDP were reconstituted in 1989, thereby raising their number from five to seven. This reconstitution helped to bring 75 per cent of the tribal population within ITDP area. Now each ITDP is within a district.

10.57 The Tribal Sub Plan concept could never be fully operationalised within the State, because in an administrative area, tribals constituted majority of the population. Opening up of the tribal settlements through development schemes and their market integration without sufficient protective safeguards have led to many undesirable results. As in the case of SCP, lack of co-ordination between the various implementing agencies and absence of integration of the schemes implemented were the characteristics of the Tribal Sub Plans in the 1970s. District level decentralisation of Tribal Sub Plan was introduced from 1983-84. From 1997-98, as in the case of SCP, a major portion of Tribal Sub Plan funds have been devolved to the local bodies. During 1996-97 an amount of Rs. 196.03 crores was spent under Special Component Plan and Rs.39.27 crores under Tribal Sub Plan. Out of the Special Component Plan provision, Rs 155.99

Table 10.19

District-wise Expenditure under Special Component Plan and Tribal Sub Plan (1996-97)

(Rs. in Lakhs)

| District | Special Component Plan | Tribal Sub Plan |
|-----------------------|------------------------|-----------------|
| 1 | 2 | 3 |
| 1. Thiruvananthapuram | 1260.26 | 180.81 |
| 2. Kollam | 1405.04 | 71.17 |
| 3. Alappuzha | 979.80 | 26.44 |
| 4. Pathanamthitta | 1049.27 | 70.81 |
| 5. Kottayam | 868.73 | 132.59 |
| 6. Idukki | 1121.38 | 580.04 |
| 7. Ernakulam | 1185.52 | 46.41 |
| 8. Thrissur | 1699.48 | 52.15 |
| 9. Palakkad | 1653.37 | 346.10 |
| 10. Malappuram | 1355.46 | 139.10 |
| 11. Kozhikode | 1141.41 | 85.98 |
| 12. Wayanad | 280.03 | 976.11 |
| 13. Kannur | 661.06 | 342.28 |
| 14. Kasaragode | 608.29 | 224.71 |
| District Total | 15599.10 | 3274.71 |
| Head Quarters | 4003.46 | 682.57 |
| State Total | 19602.56 | 3927.28 |

crores was spent at the district level. Similarly an amount of Rs.32.75 crores was spent under Tribal Sub Plan at the district level. Table-10.19 shows the details of amount spent under Special Component Plan and Tribal Sub Plan during 1996-97.

Programmes of SC/ST Departments

10.58 The programmes of Scheduled Castes and Scheduled Tribes Development Departments cover a wide area comprising of education, health, housing and other social welfare schemes.

Pre-primary Education

10.59 There are 54 nursery schools for providing pre-school education as per the nursery school scheme introduced by the SC Development Department in 1996-97. Children are given @ Rs.50/- as lump sum grant. Rs.5/- per day per child is given for supplementary feeding. Rs.200/- per child is also spent on dress allowance.

10.60 From 1976-77 onwards a scheme for balawadi-cum-feeding centres has been introduced. Here also the rate for supplementary feeding is Rs.5/- per day per student and Rs.200/- per child towards dress allowance.

10.61 From 1995-96 onwards a new scheme

incorporating the balawadies and nursery schools has been started to improve the ability of Scheduled Caste children in pre-primary classes. During 1996-97, 690 students were benefited. Children are also given assistance to undergo education at private nursery schools.

Pre-matric studies

10.62 The scheme for pre-matric studies was introduced in 1956-57. Lump sum grant is given to all scheduled caste students studying in pre-matric classes for purchase of study materials, dress etc. During 1996-97 about 5,69,623 children were benefited by the scheme.

10.63 The scheme to provide lodging facilities to poor Scheduled Caste students studying in pre-matric and post-matric classes was also started in 1956-57. During 1969-70 there were 50 pre-matric hostels of which 15 were girls hostels. At present there are 98 pre-matric hostels in the state. 2570 students including 1319 girls were benefited during 1996-97. The number of post-matric hostels in 1969-70 was seven with 514 students. Now there are 19 post-matric hostels of which six are for girls. 961 students were admitted in these hostels during 1996-97. Payment of boarding grant to the students residing in the subsidised hostels run by voluntary organisations is

another major scheme introduced in 1956-57. The present rate of boarding grant is Rs.250/- per month per student. There are 16 subsidised hostels (nine for boys and seven for girls) in the State. 544 students were admitted in the hostels during 1996-97.

10.64 The welfare programmes like enforcement of protection of civil right act and development of those who were engaged in degrading occupation in the past are also being implemented. Another major welfare scheme is the assistance for marriage and for major treatment. Under this scheme financial assistance is given for the marriage of indigent girls of Scheduled Caste families and financial assistance for prolonged and specialised treatment of poor scheduled caste people. At present the rate for marriage assistance is Rs. 2000/- and maximum grant for meeting expense for medical treatment is also Rs.2000. During 1996-97 marriage grant was given to 1846 girls and grant for medical treatment to 883 patients. Under the Prevention of Atrocities Act, financial assistance is provided to victims of atrocities belonging to Scheduled Castes. A maximum of Rs. 25000 is given to victims or dependants or victims of atrocities. During 1996-97, 120 Scheduled Castes were assisted under the scheme.

10.65 The financial assistance to inter-caste married couple @Rs. 10,000 per couple is another welfare programme under implementation. The beneficiaries under the scheme during 1996-97 was 622.

10.66 With a view to assist the landless and houseless scheduled castes, a number of settlement colonies in different parts of the state were formed. The scheme was started in 1956-57 by forming six colonies. Now, there are 476 departmental colonies including five major colonies at Thonnakkal, Nilambur, Karikkattor, Kadakkavoor and Maniyanthadam. The land acquired for the scheme have been sub divided into plots of 5 to 25 cents and houses constructed with all facilities such as latrine, bathroom, drinking water, roads, common buildings etc.

10.67 The Intensive Habitat Development Programme (IHDP) was started in 1991-92 with the aim of providing basic amenities like houses, water supply, power, road etc., in the Scheduled Caste colonies. Upto 1996-97 about 1649 SC habitats have been selected for the scheme.

10.68 The problem for housing among Scheduled Caste is very crucial. The department have initiated intensive drive for providing houses to the houseless Scheduled Caste People in recent years.

10.69 The Scheduled Castes Development Department also introduced a scheme for giving thatching and tiling grants at the rate of Rs. 500/- in 1966. During 1996-97, 1889 Scheduled Castes have

been given assistance under the scheme. The grant of Rs. 500/- has been increased to Rs. 2500/-. There is a provision for strengthening of roof for tiling. In such cases the grant will be Rs. 3000/-. The details of achievements of major schemes for the Scheduled Castes are given in Appendix-10.19

10.70 The educational concession programme of Scheduled Tribes Development Department covered 62,378 students during 1996-97. In order to provide better educational facilities and high standard of education two Model Residential Schools and two Ashram Schools (Primary) for primitive tribes were functioning during 1996-97. The model residential schools could achieve 100 per cent success in the SSLC Examination. Financial assistance to failed students to continue their studies in private tutorial colleges is an educational development scheme under implementation. Similarly better educational facilities to brilliant students is another scheme. The Objective of the scheme is to impart high standard in education for brilliant students from standard V onwards by admitting them in well-known public schools. Every year 50 students are admitted and all expenses connected with their study are met under the scheme. There are 115 pre-matric hostels for providing free boarding and lodging and tuition facilities to students. Scheduled tribe students admitted in the subsidised hostels run by voluntary organisations are eligible for assistance @ Rs. 200/- per month and for the supply of clothes to the inmates of the subsidised hostels, Rs. 125/- are also paid.

10.71 Intensive Habitat Development Programme (IHDP) deserves special mention among the economic development programmes. 184 colonies have been selected for implementation of various programmes. Housing, digging of wells, electrification of houses, economic development programmes etc. are the programmes undertaken in IHDP colonies. Family oriented economic development schemes and habitat based infrastructure facilities are also being implemented in the colonies.

10.72 Housing problem among Scheduled Tribes is very crucial. The details of houses constructed for Scheduled tribes are given in Appendix - 10.16

10.73 Several schemes have been introduced for providing better medical facilities for the Scheduled Tribes. There are 17 ayurveda dispensaries, one ayurveda hospital, three allopathic dispensaries, one allopathic hospital, five mid wifery centres and two mobile medical units for the benefit of Scheduled Tribes. A full fledged allopathic hospital has been constructed at Mananthavady. Periodical medical camps are being conducted every year in tribal areas to diagnose diseases, provide free medicine etc. Patients with various diseases detected during the

camps are referred to nearest-district/taluk hospitals. Necessary financial assistance is also given for immediate treatment. A scheme for treatment and rehabilitation of Tribes affected by major diseases was started during 1994-95. The scheme is intended to provide better treatment and rehabilitation of Tribals affected by sickle cell anaemia, T.B., Leprosy etc.

10.74 Another major scheme under implementation is the food support programme. The aim of the programme is to ensure employment for the Tribals during the rainy season and thereby ameliorate poverty. In 1996-97 the scheme was under implementation in the districts of Wayanad, Idukki, Malappuram, Kasaragode and Palakkad and benefited 14,986 families. Other schemes implemented during 1996-97 were conduct of district/state level festivals of Scheduled Tribes, assistance to Scheduled Tribe Mahilasamajams, assistance for marriage of Scheduled Tribe girls, scheme for implementation of Prevention of Atrocities Act 1989, discretionary grant, inter caste marriage grant etc.

Special Central Assistance

10.75 Government of India release every year a lump sum provision as Special Central Assistance to Special Component Plan and Tribal Sub Plan for undertaking economic development programmes and employment oriented programmes to alleviate poverty among SC/ST people. During 1996-97 an amount of Rs. 458 lakhs was spent for implementing various programmes benefiting Scheduled Castes under Special Central Assistance. During 1996-97, an amount of Rs. 164.69 lakhs has been spent under SCA to TSP benefiting 3090 ST families.

Kerala Institute for Research, Training and Development Studies (KIRTADS)

10.76 Formerly known as Tribal Research and Training Centre, the institute has been given the status as a separate department in 1979. The institute is meant to conduct research and intensive study on the Scheduled Caste and Scheduled Tribe population of Kerala. It has three major wings, viz. research wing, training wing and development studies wing. The research wing is conducting anthropological studies on the caste status of SC/ST claimants including cases referred to by the SC/ST Departments, Controller of Entrance Examinations and the Backward Classes Commission. During 1996-97, 340 investigation reports were submitted to departments and agencies. The training wing conducted 30 programmes, including training programmes, archery competitions and workshop. The development studies wing has conducted three studies, evaluation study

of SCP in Thrissur District, evaluation study of TSP in Attappady and evaluation study of ITDP in Kannur.

10.77 In addition, the institute offers fellowships for selected research students working on the development issues of SC/ST population of the State. It is an approved centre for doctoral programme in anthropology and linguistic of Calicut University. The institute has established units for tribal medicine in Wayand and Thiruvananthapuram for the studies in the promotion of ethnomedicine, the system of healing in tribal manner.

Kerala State Development Corporation for Scheduled Castes and Scheduled Tribes Ltd.

10.78 This organisation is an agency for implementing development programmes for asset creation and generation of employment among SC/ST people. The major schemes under implementation by the Corporation include margin money, agricultural land purchase scheme, foreign employment scheme, seed money for technically trained and professionally qualified persons, scheme for purchase of autorikshaw, sewing machine, water cooler, photocopier, milch animals, video camera etc.

10.79 Agricultural land purchase is a major scheme under implementation by the corporation. This scheme is in operation from 1975-76 onwards. Under the scheme a loan of Rs. 25000/- is given for purchasing a minimum 15 cents of agricultural land. The loan carries 4 % interest and is repayable over a period of 10 years in 18 half year instalments. Upto the end of 31-3-97 an amount of Rs. 970.38 lakhs was spent under the scheme which benefited 9649 families.

10.80 Foreign employment is another major scheme of the corporation implemented from 1980-81 onwards to help the SC/ST persons who possess valid visa and work agreement for getting employment in foreign countries. An amount of Rs. 10000 will be given to an individual. So far 3025 persons were benefited under the scheme for which an amount of Rs. 270.06 lakhs spent (up to 31.3.97).

10.81 The Corporation is implementing various housing scheme benefiting SC/STs. Ambedkar Rural Housing Scheme is one among them. The scheme started during 1990-91. The scheme envisages construction of 20000 houses. According to the scheme the beneficiary will get Rs. 3000/- as subsidy and Rs. 8000/- as loan from HUDCO. The beneficiary contribution is Rs. 1000/-. 3221 persons were benefited by the scheme for which an amount of Rs. 422.45 lakhs spent up to 31-3-77. Under the new Ambedkar Rural housing Scheme 1406 persons were benefited so far by spending an amount of Rs. 382.63 lakhs.

10.82 The margin money deposit scheme is being implemented from 1982-83 onwards utilising Special Central Assistance. Under the scheme financial assistance up to Rs. 35000 is provided by the financial institutions for viable projects. Up to 31-3-97, 47655 persons were given assistance for which an amount of Rs. 2122.70 lakhs was spent.

10.83 The Corporation has imparted various training programmes for skill development of the SC/ST people for undertaking self employment ventures. The areas of training are mainly on Computer, Entrepreneurship Development, Autorickshaw Driving and DTP. An amount of Rs. 27.09 lakhs was spent upto 31-3-97. 3521 SC/ST persons were benefited by the scheme so far. Under the traditional occupation scheme 774 persons were assisted for occupations such as cane works, carpentry, pottery, handicrafts handloom, tailoring, smithy works etc. Rs. 56.19 lakhs was spent for the purpose. In order to assist the unemployed SC/ST persons for setting up vegetable outlets 126 persons were given assistance by spending Rs. 12.40 lakhs.

10.84 Other major schemes of the corporation are scavenger rehabilitation scheme, professional service scheme, hollow bricks, poultry farm, typewriting institutes, photocopier/STD booth/typewriter/DTP/lamination, video camera, TV/VCR repairing and service. Two/Three wheeler workshop, medical stores, jeep, taxi, cable TV, etc.

10.85 For all these schemes an amount of Rs. 572.72 lakhs was spent during 1996-97 which extended to benefit to 3891 persons. The details of the schemes implemented by the Corporation upto 31-3-97 are given in Appendix-10.22

Kerala State Development Corporation for Christian Converts from Scheduled Castes and the Recommended Communities

10.86 The corporation was started in 1980. The main objective of the corporation is to promote educational, social, cultural, economic and other status of the Converted Christians from the Sched-

uled Castes and Other Recommended Communities in the State. The major schemes under implementation by the Corporation are agricultural land purchase scheme, foreign employment scheme, housing, sewing machine scheme and incentive grants. Under the agricultural land purchase scheme Rs.161.10 lakhs was spent as on 31-10-97 extending benefits to 1145 persons. In the case of foreign employment scheme Rs. 71.71 lakhs was incurred for which 185 persons were benefited upto the end of 1997. In order to encourage the students belonging to the Christian Converts population for their education, an incentive grant at the rate of Rs. 400/- and Rs. 300/- is given to those who pass SSLC examination with distinction and first class respectively every year. So far the grant has been distributed to 2024 students. The achievements of Kerala State Development Corporation for Christian Converts as on 31.10.97 are given in Appendix -10.23

The Kerala State Backward Classes Development Corporation Limited

10.87 The corporation registered under the companies Act, 1956 and came into existence on 28-2-1995. The main objective of the Corporation is to undertake various welfare and economic development programmes for the development of members of Backward Classes in the State. The Corporation avails of financial assistance in the form of term loans from NBCFDC and NMDFC for implementing various self employment programmes. As per the pattern of finance of NBCFDC/NMDFC, 85% of the estimated cost of each scheme will be met by them and 10 per cent has to be met by the State Corporation and 5% by the beneficiary. The Corporation is implementing various Self Employment programmes. For the period 1996-97 a total number of 3806 families have been assisted and an amount of Rs. 18.01 crores has been disbursed. In addition to the economic development schemes, the Corporation also implements a housing scheme with the assistance of HUDCO.

10.88 The details of families assisted and amount disbursed are given in Appendix-10.24



CHAPTER 11

PUBLIC FINANCE

With this issue of the Economic Review a new section giving an analysis of the finance of the State Government is being introduced. The analysis of the current situation has been attempted on the basis of historical data and it is hoped that it will be of considerable help to those interested in public finance, especially policy makers.

11.2 The overall pattern of State finances that emerges at the national level is one of increasing deficit, large accumulation of long term liabilities in the form of debt overhang and an alarming increase in contingent liabilities. According to the Report on Currency and Finance 1996-97 of the Reserve Bank of India, the revised estimates for 1996-97 showed that "there was a sharp deterioration in the consolidated budgetary position of the State Governments as evidenced in the movement of the key deficit indicators, which were placed significantly higher than their budgeted levels. Revenue deficit increased by Rs. 4,223 crores to Rs. 15,855 crores over the budgeted level of Rs. 11,632 crores. The conventional budget deficit was higher by Rs. 890 crores than the budgeted estimates, while the fiscal deficit increased sharply from the budget estimates of Rs. 38,745 crores to Rs. 41,845 crores. The net fiscal deficit at Rs. 35,072 crores also exceeded the budget estimates by Rs. 4,573 crores."

11.3 In Kerala also, since the Government's current income is inadequate to finance current expenditures, the Government borrows, which in turn result in increased interest payments, which once again widens the gap between income and expenditure. Thus, we see the State Government falling into a vicious circle, from which it is very difficult to extricate itself, unless bold initiatives are forthcoming.

Gross fiscal deficit

11.4 Gross Fiscal deficit (GFD) is the difference between aggregate disbursements of net debt repayments and recovery of loans, revenue receipts and non-debt capital receipts. It, in effect, is the total additional borrowing by the Government in a given period of time. As a percent of the domestic product, GFD gives an indication of the sustainability of the financial policies of the government.

11.5 Even though international financial institutions stipulate 3% as the ideal rate of GFD, it is

widely argued that it is too low a figure for developing countries, which need to participate much more actively in infrastructure investment and access external assistance to boost growth rates. The Central Government's GFD runs currently at around 5-6% and the combined deficit of Central and State governments stands at 9-10%.

11.6 The Table 11.1 given below shows the manner in which the State's GFD has grown over the past five years. From a low of 4.26% of SDP in 1992-93 it has consistently been on the rise and has grown from 5.25% in 1995-96 to 7.11% in 1996-97.

Table 11.1
Kerala: Gross Fiscal Deficit
(Rupees Crores)

| | GFD | SDP | % |
|---------|------|-------|------|
| 1992-93 | 732 | 17175 | 4.26 |
| 1993-94 | 935 | 19688 | 4.75 |
| 1994-95 | 1108 | 22024 | 5.03 |
| 1995-96 | 1302 | 24820 | 5.25 |
| 1996-97 | 2025 | 28479 | 7.11 |

Source: RBI, Report On Currency and Finance, various issues.

11.7 As per data available, average GFD for 16 states for the year 1994-95 was 4.86%, which came down to 4.71% in 1995-96. In 1994-95 while five states viz. Himachal Pradesh, Orissa, Punjab, Rajasthan and UP had a GFD higher than that of Kerala, next year Orissa and UP bettered their position. That year Kerala became the fourth in the list of states with highest GFD. Tamil Nadu and Karnataka had only 3.38% and 3.86% GFD in 1994-95, which came down to 2.18% and 2.82% respectively in 1995-96.

11.8 If fiscal deficit is used for financing productive investment, it can be justified. However, what is happening increasingly in the State is the use of fiscal deficit for covering revenue deficit. In 1994-95, 36.1% of GFD was used to cover Revenue Deficit. This proportion jumped to 47.8% in 1995-96 and 51.7% in 1996-97. The average for 16 major states in the respective years stood at 36.3%, 26.4% and 26%.

11.9 Using loans to finance revenue expenditure has wide ramifications. As we shall see later it adds to the interest liability which, once again, increases the revenue deficit. This is the typical debt trap scenario.

Outstanding Liabilities

11.10 The quantum jump in the GFD of the State in the past few years has meant growing liabilities of the Government in the form of loans and other capital receipts. The growth of the State's debt is given in the Table 11.2.

11.11 While Debt/SDP ratio stood at over 40% in Kerala, the average for the Major states was

well below this figure. In 1994-95 it was 30.75% which increase to 32.23% in 1995-96. The per capita debt of the State increased from Rs. 1491 in 1991 to Rs. 3235 in 1996. While the all-state average rose by 80% during the period the increase in respect of Kerala was 117%. Kerala, which was 8th highest indebted state in early 1990s is now 3rd in the list.

11.12 The Government has been also lavish in giving guarantees, which has resulted in the

Table 11.2
Kerala: Debt outstanding

| | Internal Debt | Central Government | PF etc. | Total | Growth Rate% | SDP | Total/SDP |
|---------|---------------|--------------------|---------|-------|--------------|-------|-----------|
| 1991-92 | 1363 | 2435 | 1668 | 5466 | 15.90 | 15101 | 36.20 |
| 1992-93 | 1694 | 2721 | 1882 | 6297 | 15.20 | 17175 | 36.66 |
| 1993-94 | 1734 | 3114 | 2350 | 7198 | 14.31 | 19688 | 36.56 |
| 1994-95 | 2079 | 3726 | 3015 | 8820 | 22.53 | 22024 | 40.05 |
| 1995-96 | 2486 | 4238 | 3389 | 10113 | 14.66 | 24820 | 40.75 |
| 1996-97 | 3004 | 4815 | 3852 | 11671 | 15.41 | 28479 | 40.98 |

Source: RBI, Report On Currency and Finance, various issues.

increase in its Contingent Liabilities. Since these are not booked as liabilities, it is difficult to ascertain their magnitude. However, according to one study they could add up to an amount equal to the outstanding debt of the State government.

Revenue deficit

11.13 Revenue Deficit (RD) is the difference between revenue expenditure and revenue receipts. Revenue expenditures are in the form of administrative expenditure, interest, pensions, grants etc. Revenue receipts include tax and non-tax revenue, interest received, grants etc. RD in the State Government account occurred for the first time in 1980-81. Though this position was averted for the next couple of years, the deficit syndrome recurred in 1983-84 and worsened with the passage of time and has become a permanent feature now. RD as a percent of State Domestic Product (SDP) increased from 1.06% in 1983-84 to a high of 3.47% in 1990-91 and later came down to stabilise at less than two percent. However, as can be seen from Table 11.3 it once again shot up to 3.54% in 1996-97.

11.14 Between 1995-96 and 1996-97, there was a 150% increase in RD. As per the budget estimates for 1997-98, it has further increased from Rs. 1,007 crores to Rs 1,242 crores. According to RBI

"five states viz. UttarPradesh (Rs. 7696.30 crores), Andhra Pradesh (Rs. 1181.50 crores), Kerala (Rs. 1026 Crores), Tamil Nadu (Rs. 1526.60 crores) and West Bengal (Rs. 1732.60 crores) account for 85.6% of the aggregate revenue deficit" in 1997-98. (Report on Currency and Finance 1996-97). It may be noted here that the RBI has reckoned the RD after taking into consideration the additional resource mobilisation measures where as the figure in the table above is before ARM.

11.15 Though technically it may be correct to say that RD increased by 150% during 1996-97, it was due, partly at least, to a substantial devolution of funds to local bodies for development.

11.16 Kerala has embarked upon a vigorous process of decentralisation giving administrative and financial powers to local bodies. As part of this process the Government has earmarked considerable funds as grant in aid to these institutions. Whereas in 1995-96 Untied Grant was only Rs. 30 crores, in 1996-97 it was raised to Rs. 212 crores and in 1997-98 over 36% of the State Plan outlay has been set apart for projects formulated by the local bodies. An amount of Rs. 749 crores has been earmarked as Plan grant to different tiers of local bodies. As per the accounting procedure existing at the national level all grants are treated as revenue expenditure even though a good part of the

Table 11.3
Trend in Revenue Account

| (Rs. Crores) | | | | | |
|--------------|------------------|---------------------|---------|-------|---------------------|
| Year | Revenue Receipts | Revenue Expenditure | Deficit | SDP | Deficit as % of SDP |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1983-84 | 934.26 | 992.44 | 58.18 | 5465 | 1.06 |
| 1984-85 | 1122.49 | 1138.66 | 16.17 | 6078 | 0.27 |
| 1985-86 | 1371.17 | 1445.34 | 74.17 | 6436 | 1.15 |
| 1986-87 | 1502.09 | 1654.77 | 152.68 | 7320 | 2.09 |
| 1987-88 | 1586.09 | 1780.68 | 194.59 | 8103 | 2.40 |
| 1988-89 | 1897.06 | 2061.00 | 163.94 | 9135 | 1.79 |
| 1989-90 | 2047.64 | 2298.09 | 250.45 | 10174 | 2.46 |
| 1990-91 | 2402.93 | 2824.95 | 422.02 | 12173 | 3.47 |
| 1991-92 | 2852.12 | 3216.46 | 364.34 | 15101 | 2.41 |
| 1992-93 | 3318.73 | 3656.14 | 337.41 | 17175 | 1.96 |
| 1993-94 | 3922.05 | 4293.36 | 371.31 | 19688 | 1.89 |
| 1994-95 | 4666.42 | 5066.30 | 399.88 | 22024 | 1.82 |
| 1995-96 | 5423.56 | 5826.37 | 402.81 | 24820 | 1.62 |
| 1996-97 | 6465.25 | 7472.31 | 1007.06 | 28479 | 3.54 |

Source : GOK, Budget Documents

funds thus devolved may be spent on asset creation. As is revealed from the figures presented in the chapter on Decentralised Planning, a major portion of this amount is being spent on development sectors for asset creation at the local body level. Therefore, to classify the entire plan grant to local bodies as revenue expenditure is misleading.

11.17 If it is assumed that 75% of the grant to local bodies is of non-revenue nature, the entire picture changes. In 1996-97 (RE) the RD will come down by Rs. 160 crores (75% of Rs. 212 crores) taking the deficit as a percentage of SDP down to 2.97%, although it still is on the high side, compared to the previous year.

11.18 With the above adjustment in RD, the share of revenue deficit in the GFD will come down 51.7% to 41.8%.

11.19 There are several reasons cited for the sudden jump in RD during 1996-97, including postponement of several revenue commitments to the next year, which resulted in the suppression of revenue expenditure in 1995-96. These commitments had to be fulfilled during 1996-97, resulting in a distortion in the comparative figures. Similarly, the decision to prohibit the sale of arack adversely affected revenues.

11.20 Whatever be the reason for such phenomenal growth in RD, it is indeed a serious matter deserving immediate attention and solution. The urgent task is to find ways to contain the burgeoning Revenue Deficit. This alone will ensure higher investment and lead to economic growth.

Overall expenditure pattern

11.21 Three major items of expenditure which decide the magnitude of RD are interest, salaries and pensions. They together constitute 65% to 70% of the total revenue expenditure. Year wise details are given in Table 11.4.

Table 11.4

Kerala: Major items of expenditure as Percentage of total revenue expenditure

| Year | Salary | Pensions | Interest | Total |
|---------|--------|----------|----------|-------|
| 1994-95 | 43.31 | 11.20 | 16.19 | 70.69 |
| 1995-96 | 38.27 | 10.50 | 15.86 | 64.63 |
| 1996-97 | 40.58 | 10.10 | 15.15 | 65.83 |

Source: GOK, Budget Documents

11.22 With regard to pensions while the average for the major states work out to around 5% of revenue expenditure, in Kerala it is double the figure. Various studies have cited the low retirement age and higher longevity as the major reasons. While in most other states the retirement age is 58 or 60 it is 55 in Kerala. While the average life expectancy is only 62 years at the national level, in Kerala it is 70 years. Both these factors together may have contributed to the higher proportion of pensions in revenue expenditure.

11.23 Reference has been made above in sufficient detail to the mounting debt liability of the State government. As we noted in that connection, one of the reasons for the increase in both the Revenue Deficit and the Gross Fiscal Deficit is the high cost of

borrowing. Interest as a percentage of revenue expenditure work out to around 16% in Kerala. Although this is only slightly higher than the figure for the major states. The point to be noted in this respect is that but for interest liability Kerala would have had a revenue surplus. In 1994-95 interest liability amounted to Rs. 820 crores while the revenue deficit was only Rs. 400 crores. Similarly for 1995-96 these figures were Rs. 924 crores and Rs. 403 crores respectively.

11.24 Salary is the biggest single item in the expenditure accounts of the Government. As the table above shows, it is around 40 % of the total revenue expenditure. With the periodical revision in dearness allowance and once-in-five-years pay revision, the share of this item is bound to increase in the years to come.

Table 11.5
Trends in State's Taxes and Duties

| | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|
| | | | | | | RE | BE |
| Agricultural Income Tax | 35.13 | 12.52 | 20.88 | 17.24 | 26.08 | 28.73 | 30.60 |
| Land Revenue | 11.44 | 11.85 | 19.79 | 22.65 | 23.71 | 34.50 | 34.50 |
| Registration | 152.19 | 189.61 | 230.16 | 295.81 | 353.79 | 455.00 | 500.00 |
| Excise | 210.30 | 222.21 | 330.95 | 353.21 | 449.29 | 372.05 | 418.55 |
| Sales Tax | 1122.10 | 1305.59 | 1533.24 | 1864.93 | 2285.96 | 2700.00 | 3276.00 |
| Motor Vehicle Tax | 94.76 | 111.89 | 151.06 | 183.90 | 222.87 | 240.70 | 343.00 |
| Electricity Duty | 41.15 | 22.15 | 44.46 | 49.99 | 7.51 | 102.21 | 108.34 |
| Others | 6.89 | 11.15 | 14.33 | 11.37 | 13.47 | 15.66 | 16.99 |
| Total | 1673.96 | 1886.97 | 2344.87 | 2799.10 | 3382.68 | 3948.85 | 4727.98 |

Source: GOK, Budget Documents.

State's Taxes and duties

11.25 Currently over 60% of the total revenue of the State is derived from the different taxes and duties levied and collected by the State Government. They include Sale Tax, Stamp Duty and Registration charges, State Excise Duty, Motor Vehicles Tax, Land Revenue, Agricultural Income Tax and Electricity Duty, Table 11.5 presents the collections of these taxes from 1991-92 to 1997-98 (BE).

11.26 It can be seen that during the past six years Sales Tax revenue has increased by 300%, Stamps and Registration by over 300% and Motor Vehicles Tax by 350%. This growth, it is widely believed, was fuelled by (a) the consumerist boom caused by the increased remittances from abroad as a result of the devaluation of the Rupee, and (b) inflation due to the Centre's new economic policy.

11.27 It should also be noted that Kerala's achievement in terms of growth rate of own tax revenues is only slightly better than the average for major states. This can be seen from Table 11.6.

Table 11.6
State Taxes and duties: Growth rates

| | Major States | Kerala |
|------------------|--------------|--------|
| 1980-81 to 84-85 | 17.1 | 16.6 |
| 1985-86 to 89-90 | 16.3 | 14.7 |
| 1990-91 to 93-94 | 15.5 | 18.0 |
| 1994-95 | 15.7 | 19.4 |
| 1995-96 | 15.8 | 16.1 |
| 1996-97 | 12.6 | 13.6 |

Source: RBI, Report on Currency and Finance

Table-11.7
State Taxes and duties: Growth Rates in Per cent

| | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 (RE) | 1997-98 (BE) |
|-------------------------|---------|---------|---------|---------|-----------------|-----------------|
| Agricultural Income Tax | -64.36 | 66.77 | -17.43 | 51.28 | 10.16 | 6.51 |
| Land Revenue | 3.58 | 67.00 | 14.45 | 4.68 | 45.51 | 0.00 |
| Stamps and Registration | 24.59 | 21.39 | 28.52 | 19.60 | 28.61 | 9.89 |
| State Excise Duty | 5.66 | 48.94 | 6.73 | 27.20 | -17.19 | 12.50 |
| Sales Tax | 16.35 | 17.44 | 21.63 | 22.58 | 18.11 | 21.33 |
| Taxes on Vehicles | 18.08 | 35.01 | 21.74 | 21.19 | 8.00 | 42.50 |
| Electricity Duty | -46.17 | 100.72 | 12.44 | -84.98 | 1260.99 | 6.00 |
| Other Taxes and Duties | 61.92 | 28.19 | -20.52 | 18.68 | 16.04 | 8.51 |

Source: GOK, Budget Documents

11.28 Wide Variations exist, however, in the growth rates of various taxes and duties. Table 11.7 below gives the details.

11.29 Even though, generally, it can be said that the growth in own tax revenue of the State is satisfactory, of late, certain disquieting developments are visible, as a result of the changes in the economy. The return of Gulf migrants in large number, the steep fall in the prices of agricultural produces like rubber, the general recession in the economy etc. are worth mentioning. These are slowly making impacts on the life of the people and the economy of the state, including the finances of the State Government.

11.30 Even though the table gives an impressive growth in the tax receipts of the Government, there is a widely held feeling that the potential has not been fully tapped. There is scope for improving the collection through rationalisation in rate structure, plugging loopholes for tax evasion and avoidance and streamlining of administration. Realising this, the Government has constituted committees for suggesting suitable amendments to Sale Tax, Stamps and Registration laws and some of their recommendations are under active consideration.

Share of central Taxes

11.31 A major item on the receipts side in the revenue account of the State Government is the share it receives from the taxes and duties levied by the Central Government. According to the award of Tenth Finance Commission, which is for the period 1995-2000, the states shall get a share of 77.5 per cent in income tax and 40 per cent in union excise duties. In addition, the Commission also recommended the norms for distribution of additional excise duties; grant - in - lieu of railway passenger

fares, upgradation grants and the grant to cover relief expenditure etc.

11.32 Based on this award, the share of Kerala in the divisible pool is as follows:

| | |
|--------------------------|-------------------|
| Income Tax | 3.875% of 77.5% |
| Union Excise Duties | 3.875% of 40% |
| Additional Excise Duties | 3.740% of 97.797% |

11.33 The State's share in the Central Taxes grew at the rate of 11.3% per annum during the period 1980-81 to 1984-85. This rose to 18.5% during 1985-86 to 1989-90. The corresponding figures for the major states are 11.6% and 19.9%.

11.34 Year-wise breakup for Kerala for the subsequent period is given in Table 11. 8. While the share of Central Taxes constituted 3.73% of the SDP of major states in 1995-96, the corresponding figure for Kerala was 4.18 per cent. It increased slightly to 4.28% in 1996-97.

11.35 The substantial increase in the growth rate during 1995-96 is attributed to the fact that, that was the year in which the Tenth Finance Commission award came into force. Year to year variation is linked to the total quantum of the divisible pool, which basically depends upon the policies of the Central government. The central government has the habit of making amendments to the tax law unilaterally, even though the States have a substantial stake in the divisible taxes. They are never consulted when the rates and the provisions are amended. Several studies have pointed out that the buoyancy in the taxes divisible with the States is much lower than that of items like Customs Duty, Corporate Tax etc. which the Centre does not share with the states. It is for this reason that the states have been demanding pooling

Table 11.8
Share of Central Taxes

| (Rupees crores) | | | |
|-----------------|----------------|----------|----------|
| Year | Share Received | Growth % | % of SDP |
| 1991-92 | 576.42 | | 3.82 |
| 1992-93 | 686.95 | 19.18 | 4.00 |
| 1993-94 | 751.18 | 9.35 | 3.82 |
| 1994-95 | 838.42 | 11.61 | 3.81 |
| 1995-96 | 136.96 | 23.68 | 4.18 |
| 1996-97 | 1217.70 | 17.43 | 4.28 |

Source: Government of Kerala, Budget Documents

of all the taxes and duties levied by the Centre for sharing with the states.

11.36 Conceding the demand the Tenth Finance Commission has recommended an Alternate Formula for sharing of the Central taxes where by "the share of the States in the gross receipts of central taxes shall be 26%". In addition it recommended "a further share of three percent in the gross tax receipts of the Centre for the States in lieu of additional excise duties". Thus as per the Alternate Formula, the States shall get a total share of 29% of the gross tax receipts of the Centre. However, this can become a reality only when the Constitution is suitably amended.

Non tax Revenue

11.37 It is noteworthy that the share of the non-tax revenue in the State's own revenue declined from 15.6% in 1980-81 to 8.7% in 1990-91 and further to 8.2% in 1996-97. In a period of 17 years the share of non-tax revenue has come down to almost half of what it was in 1980-81. The average annual growth in the non-tax revenue during the period from 1980-81 to 1996-97 was just 5.1%. This should be compared

with the increase in own revenue of over 17%. During the same period revenue expenditure increased at an average rate of 16.55%. It shows that even though the establishment costs for running the services are increasing at a fast pace, the user charges have not been periodically revised. A study by the task force set up by the Planning Board to recommend resource mobilisation for the Ninth Plan found that in certain cases the rates have not been revised during the past 20 years.

Loans and Advances by the state Government

11.38 One item that can really make a change in the growth rate of non-tax revenue is receipts by way of recovery of loans and interest on the loans given by the State Government. Unfortunately, the performance of the Government on this score also is not encouraging. Table 11.9 gives the relevant details.

11.39 The table shows that even though considerable amount is booked under loans and advances by the State government, the repayment is insignificantly low. The more worrying phenomenon

Table 11.9

Loans and advances by the Government

| (Rupees Crores) | | | | | | |
|------------------|---------|---------|---------|---------|---------|---------|
| | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 |
| Opening Balance | 931 | 1083 | 1189 | 1378 | 1640 | 1943 |
| Fresh Loans | 175 | 137 | 234 | 288 | 330 | 286 |
| Repayments | 22 | 20 | 33 | 26 | 27 | 31 |
| Net Loans | 153 | 117 | 201 | 262 | 303 | 255 |
| Int. Receipts | 19 | 23 | 28 | 38 | 100 | 56 |
| Total Recoveries | 41 | 43 | 61 | 64 | 127 | 87 |
| Recovery/Loans | 4.40% | 3.97% | 5.13% | 4.64% | 7.74% | 4.48% |
| Int/Loans | 2.04% | 2.12% | 2.35% | 2.76% | 6.09% | 2.88% |

Source: GOK Budget Documents

is the low rate of interest collection. While the average cost of borrowing for the government works out to 9% to 10%, the interest collected by the government is around 2.5% only. This shows that, had commercial accounting practices been followed, many of the loans would have to be treated as bad debts and charged against revenue account, raising revenue deficit.

Plan and non-plan expenditure

11.40 During the Eighth Plan period the average annual increase in Plan expenditure was 27.69%. In 1995-96 it increased by 24.6% and in 1996-97 by 24.2%. Even though perceptible change is noticeable towards increased Plan expenditure, its share in the total State government expenditure continues to be lower than the average for major States. Correspondingly, three-fourths of the total State

government expenditure comprises of non-plan expenditure. This is higher than the average for the major states. This can be seen from Table 11.10.

11.41 The basic reasons for the low share of Plan expenditure in the total expenditure lies in the fact that the balance from current revenue is always negative, as is shown by the mounting revenue deficit. Unless effective measures are taken to contain the RD, it will be difficult to raise the share of plan expenditure in the total expenditure.

Five year plan and annual plans

11.42 Even though the Government of India has not been able to finalise the Ninth Five Year Plan, the Planning Commission has approved the State's outlay at Rs. 16100 crores. The Five Year allocation for the different sectors is as follows:

Table 11.10

Plan and Non-Plan Expenditure in Per cent

| Year | Kerala Plan | Kerala Non-plan | Major States Plan | Major States Non-Plan |
|---------|-------------|-----------------|-------------------|-----------------------|
| 1994-95 | 23.76 | 76.24 | 27.21 | 72.79 |
| 1995-96 | 25.08 | 74.92 | 28.43 | 71.57 |
| 1996-97 | 27.33 | 72.67 | 29.59 | 70.41 |

Source: RBI, Report on Currency and Finance

Table 11

Ninth Five Year Plan - Sector wise Allocation

| | (Rs. Crores) |
|--------------------------------|-----------------|
| Agriculture and allied sectors | 1039.50 |
| Area programmes | 47.00 |
| Rural Development | 392.90 |
| Irrigation | 1028.00 |
| Industries | 1125.96 |
| Power | 2671.00 |
| Transport | 569.00 |
| Scientific Services | 75.00 |
| Social and Community Services | 2863.64 |
| Economic Services | 185.00 |
| General Services | 103.00 |
| Grant to Local Bodies | 6000.00 |
| Total | 16100.00 |

11.43 The Ninth Plan outlay is 195% higher than the approved outlay of Eighth Plan, which was Rs.5460 crores. It may be mentioned here that this is one of the highest increases given by the Planning Commission to any State.

11.44 Out of the above, Rs. 1813.90 crores has been earmarked for SC/ST development. It works out to 11.26%, which is proportionate to the population share of these sections. Two thirds of these amounts will be given to Local Bodies as grant. Inclusive of this the grant to Local Bodies has been fixed at Rs. 6000 crores.

11.45 Consequent to the sudden dissolution of the Lok Sabha, the Planning Commission had deferred the discussions on the Annual Plan 1998-99. As such the Government could not finalise the State's Annual Plan. However, it has been decided to tentatively fix the outlay of the Annual Plan 1998-99 at Rs. 3100 crores. This may have to be modified on the basis of the discussions with the Planning Commission, later.

CHAPTER 12

INSTITUTIONAL AND BANK FINANCE

INSTITUTIONAL FINANCE

Financing Institutions are important developmental intermediaries. In the context of increasing budgetary constraints for various developmental activities the role of financing institutions become all the more crucial. The major All India Financial Institutions are Industrial Development Bank of India (IDBI), Industrial Finance Corporation of India (IFCI), Industrial Credit and Investment Corporation of India (ICICI), Life Insurance Corporation of India (LIC), General Insurance Corporation of India (GIC), National Co-operative Development Corporation (NCDC) and National Bank for Agriculture and Rural Development (NABARD).

12.2 Compared to the past few years, the overall performance by the All India Financial Institutions in terms of growth in credit disbursement, during the 1995-96, the latest year for which the data is available, was low. As against the normal increase of 20-25% every year since 1990, the increase shown in credit disbursement during 1995-96 was only 5.7%. In terms of the quantum of credit disbursed, as against the increase of 5434.1 crores (22.9%) during the year 1994-95 over the previous years, the increase shown during 1995-96 was of Rs. 1653.5 crores only (5.7%). For such a low rate of increase in disbursement in 1995-96, the institutions principally responsible were IDBI and ICICI just above marginal to keep pace with their previous years level of disbursements.

12.3 On a comparison of institution-wise growth of disbursement during 1994-95 and 1995-96, it was observed that the growth of disbursement by IDBI drastically declined from 35% in 1994-95 to 0.43% in 1995-96 and that of ICICI from 55% to 3.5%, NABARD from 9.7% to 1.8%. Certain institutions showed negative growth. Share of UTI declined from Rs. 5477.4 crores in 1993-94 to Rs. 4299.8 crores in 1994-95 and further to Rs. 2465 in 1995-96 registering negative growth of 21.5% in 1994-95 and 42.7% in 1995-96. Growth of NCDC declined from 35% in 1994-95 to negative growth of 17.9 in 1995-96. LIC showed a better performance in its credit disbursement. The disbursement went up from Rs. 549 crores in 1993-95 to Rs. 1032 crores in 1994-95 and further to Rs. 2161 recording robust increases of 88% and 109% respectively over the

previous years. ICICI and GIC also made significant growth in their disbursements during 1995-96 recording marked increase 61% and 67% respectively. Out of the aggregate disbursement of Rs. 30866.2 crores during 1995-96, share by IDBI was the largest at Rs. 10536.7 crores followed by ICICI at Rs. 7120.4 crores (23.1%) ICICI at Rs. 4563.3 (14.8%), NABARD at Rs. 3064.2 crores (9.9%) and UTI at Rs. 2645.00 (8.6%). Disbursement by NCDC continued to be the lowest at Rs. 317.1 crores (1%).

12.4 Regarding inter-state distribution of credit by financial institutions, 15 major states accounted for Rs. 26037.7 crores or 84% of the total. As between these two states, distribution was rather skewed with an amount of Rs. 15422.7 crores or 50% of aggregate disbursement going to four states, viz. Maharashtra at Rs. 5922.9 crores (19.2%), Gujarat at Rs. 4021.4 crores (13%), Uttarpradesh at Rs. 2768.9 crores (9%) and Tamil Nadu at Rs. 2709.5 crores (8.8%). The Share of Kerala declined further from 1.05 in 1994-95 to 1.02 in 1995-96. While at all India level the total disbursement increased, Kerala's proportionate share continued to be declined. Such a shrinkage in credit flow, if continued, will have serious ramification in attaining the investment requirement projected in the Ninth Five Year Plan for achieving the desired growth rate in economy. Kerala was not getting due share from major financing institutions over the year. During the year under review, Kerala's share from IDBI was 1.1% and from IFCI (0.2%). Share by NCDC also declined during the year, from Rs. 38.1 crores in 1994-95 to Rs. 24.3 crores in 1995-96 recording a decline of 36.2%. NABARD, more or less retained previous year's position by disbursing Rs. 127 crores during 1995-96 as against the disbursement of Rs. 126.1 during 1994-95. But for the shares of NABARD and NCDC Kerala's share would have been as low as 0.53% of the aggregate disbursement by all financing institution. When two institutions, NABARD and NCDC put together, could share 48% of the total share to Kerala, the other major institutions (IDBI, IDCI, ICICI, UTI, GIC, LIC) put together contributed only 52%. State-wise disbursement by all India financial institutions during 1995-96 is presented in Appendix 12.1.

12.5 The cumulative disbursement by all India financial institutions (excluding GIC) as at the

end of March 1996 has gone up by 17.6% from Rs.164481 crores as at the end of March 1995 to Rs.193843 crores as at the end of March 1996, as compared to an increase of 22.1% as at the end of March 1995, from Rs 134715 crores as at the end of March 1994 to Rs. 164481 crores as at the end of March 1995. That is, the rate of growth declined by 4.5% between the period 1994 (March end) and 1996 (March end). The relative position with regard to the credit absorption by various states were more or less same as those in 1995. The major share of Rs. 38475.8 crores (20%) was absorbed by Maharashtra, followed by Gujarat Rs. 22886.4 crores (17.8%) Uttar Pradesh Rs. 17210.4 crores (8.9%), Tamil Nadu Rs. 15802.9 crores (8.2%) and Andhra Pradesh Rs. 14369.5 crores (7.4%). Kerala's position continued to decline over the years. The share of Kerala declined 0.14% from 1.92% as at end of March 1995 to 1.78% as at the end of March 1996. In absolute term, the share of Kerala was Rs. 3442.8 crores, the lowest, but for Assam (Rs. 1283.5 crores). The state-wise cumulative disbursement as at the end of March 1996 is furnished in Appendix 12.2.

12.6 While all India per capita disbursement by IFCI, ICICI, LIC and GIC increased substantially during the three year period from 1993-94 to 1995-96, that by IDBI and UTI decreased during the same period. The per capita disbursement by IDBI marginally decreased from Rs. 115.9 during 1994-95 to 114.1 in 1995-96. At the same time, the per capita

disbursement by UTI drastically declined from Rs. 47.4 in 1994-95 to Rs. 28.7 in 1995-96. As against the all India per capita of Rs. 297.7, per capita disbursement to Kerala was Rs. 52.3 only, the lowest but for Assam (Rs. 35.7) and Bihar (Rs. 17.6). The details are furnished in Appendix 12.3.

BANK FINANCE

12.7 Since the nationalisation of banks in 1969, there had been tremendous growth in branch expansion, predominantly in rural and semi urban areas. The number of branches increased from 8262 in 1969 to 65485 in 1997 registering a compound annual growth rate (CARG) of 8%. The number of branches increased eight fold, after nationalisation of banks. The largest number of branches are in Uttar Pradesh with 8951 (13.7%), followed by Maharashtra with 6237 (9.5%) and Bihar with 5042 (7.7%). Kerala, with 3214 branches, accounts for 4.9% of the total bank branches in the country. Compared to 1996 the number of bank branches opened during 1997 went up substantially greater. While only 248 new branches were opened in 1996, the number of new branches opened in 1997 was 11 times larger, being 2636. As many as 141 (5.3%) of the new branches were in Kerala. Out of the total number of 65485 branch offices functioning in the country as at the end of March 1997, as many as 33002 (50.4%) offices are in rural areas, 13962 (21.3%) in semi-urban areas, 10161 (15.5%) in urban areas and the rest 8361 (12.8) in

Table 12.1

State-wise distribution of Scheduled Commercial Bank Offices as at the end of March 1997

| Sl. No. | Station | Rural | % to Total | Semi | % to urban | Urban | % to Total | Metro politan | % to total | Total | % to total |
|---------|-----------------|-------|------------|-------|------------|-------|------------|---------------|------------|-------|------------|
| 1. | Andhra Pradesh | 2453 | 7.4 | 1129 | 8.1 | 946 | 9.3 | 513 | 6.1 | 5041 | 7.7 |
| 2. | Assam | 841 | 2.5 | 257 | 1.8 | 178 | 1.7 | -- | -- | 1276 | 1.9 |
| 3. | Bihar | 3528 | 10.7 | 892 | 6.4 | 622 | 6.1 | -- | -- | 5042 | 7.7 |
| 4. | Gujarat | 1564 | 4.7 | 781 | 5.6 | 455 | 4.5 | 837 | 10.0 | 3637 | 5.6 |
| 5. | Haryana | 692 | 2.1 | 324 | 2.3 | 405 | 4.0 | -- | -- | 1421 | 2.2 |
| 6. | Karnataka | 2246 | 6.8 | 998 | 7.1 | 718 | 7.1 | 698 | 8.3 | 4660 | 7.1 |
| 7. | Kerala | 344 | 1.0 | 2253 | 16.1 | 617 | 6.1 | -- | -- | 3214 | 4.9 |
| 8. | Madhyapradesh | 2740 | 8.3 | 909 | 6.5 | 568 | 5.6 | 314 | 3.8 | 4531 | 6.9 |
| 9. | Maharashtra | 2322 | 7.0 | 1042 | 7.5 | 870 | 8.6 | 2003 | 24.0 | 6237 | 9.5 |
| 10. | Orissa | 1618 | 4.9 | 299 | 2.1 | 279 | 2.7 | -- | -- | 2196 | 3.4 |
| 11. | Punjab | 1120 | 3.4 | 606 | 4.3 | 528 | 5.2 | 182 | 2.2 | 2436 | 3.7 |
| 12. | Rajasthan | 1931 | 5.8 | 712 | 5.1 | 451 | 4.4 | 228 | 2.7 | 3322 | 5.1 |
| 13. | TamilNadu | 1850 | 5.6 | 1191 | 8.5 | 995 | 9.8 | 767 | 9.2 | 4803 | 7.3 |
| 14. | Uttar Pradesh | 5462 | 16.6 | 1479 | 10.6 | 1484 | 14.6 | 526 | 6.3 | 8951 | 13.7 |
| 15. | West Bengal | 2276 | 6.9 | 572 | 4.1 | 591 | 5.8 | 1028 | 12.3 | 4467 | 6.8 |
| | Total | 30987 | 93.9 | 13444 | 96.3 | 9707 | 95.5 | 7096 | 84.9 | 61234 | 93.5 |
| | All India Total | 33002 | 100.0 | 13962 | 100.0 | 10161 | 100.0 | 8361 | 100.0 | 65485 | 100.0 |

Source : Report on Currency and Finance 1996-97 Vol. 2

metropolitan areas. The largest number of rural branches are in Uttar Pradesh with 5462 (16.6%), followed by Bihar with 3528 (10.7%). Kerala has the highest number of semi urban branches with 2253 such branches (16.1%). West Bengal stood first with the highest number of metropolitan branches (1028) followed by Gujarat (837), Tamil Nadu (767). Out of the total number of 3214 bank branches in Kerala, 344 (10.7%) are in rural areas 2253 (70.1%) in semi-urban areas and the rest 617 (19.2%) in urban areas. One of the apparently reasons for higher share of branches in semi-urban areas in Kerala is that as per the rural-urban classification norms of RBI, a large extent of geographical area of the State comes under semi-urban category (places with population of 10,000 and upto 99,999). The average population per branch in the whole country declined from 65,000 in 1969 to 14,000 in 1995 and thereafter, slightly moved up to 15,000 in 1996. The corresponding figures with regard to Kerala are 35,000 in 1969 and 10,000 in 1996. Assam and Bihar are the two States with the highest population per branch, at about 20,000. The average population per branch for Punjab is 10,000. The state-wise growth of bank offices in India is presented in appendix 12.4 and table 12.1

12.8 The deposits in public sector banks in India during the period from June 1969 to June 1997 increased by 130 times from Rs. 3897 crores in 1969 to Rs. 507533 crores in 1997 representing a compound annual growth rate (CARG) of 19%. During the same period, the credit increased only by about 78 times,

from Rs. 3885 crores in 1969 to Rs. 282702 crores in 1997 representing a compound annual growth rate of (CARG) of 17%. The volume of the business, credit plus deposits, also increased 102 times after the nationalisation of banks in 1969. When the deposits and credits during 1996 and 1997 are compared, deposits during 1997 increased by 42% over the deposit during 1996 and credit during 1997 increased by 34% only over the credit given during 1996. The credit-deposit ratio of public sector bank continued to decline. The ratio drastically declined from 99.69% in 1969 to 59.2 in 1996 and further to 55.7 in 1997. Among the fifteen major states, states with credit-deposit ratios above that at all India level were Tamil Nadu (96.5%), Andhra Pradesh (76.0%), Karnataka (69.8%) and Maharashtra (66.5%). The credit-deposit ratio of Kerala stood at only 44.9% is lower by 10.8% compared to the credit deposit ratio at all India level. Between 1996 and 1997 the credit-deposit ratio of Kerala marginally increased by 1.2%, from 43.7% in 1996 to 44.9% in 1997. However, this marginal increase can not be taken as a positive sign, because, for the past several years credit-deposit ratio of Kerala had been well below 50 percent as against average of close to 60 percent during the nineties. During the year under review, out of the total advance of Rs. 2,82,702 crores, the largest share of Rs. 69,100 crores (24.4%) went to Maharashtra followed by Tamil Nadu with Rs. 32799 (11.6%) and Andhra Pradesh Rs. 20160 crores (7.1%). Kerala's share was only Rs. 10561 (3.7%). The state wise details are presented in Table 12.2

Table 12.2

Deposits, Credits and Credit-Deposit Ratios of Public Sector Banks

(Rs. Crores)

| States | Deposits | | | | Credits | | | | Credit-Deposit Ratio | | | |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|-----------|-----------|-----------|
| | June 1969 | June 1995 | June 1996 | June 1997 | June 1969 | June 1995 | June 1996 | June 1997 | June 1969 | June 1995 | June 1996 | June 1997 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
| Andhra Pradesh | 121 | 16825 | 19055 | 26513 | 122 | 13904 | 15657 | 20160 | 100.8 | 82.6 | 82.2 | 76.0 |
| Assam | 33 | 3426 | 4067 | 5301 | 13 | 1339 | 1547 | 1820 | 39.4 | 39.1 | 38.0 | 34.3 |
| Bihar | 169 | 14054 | 16658 | 21370 | 53 | 4412 | 5031 | 6398 | 31.4 | 31.4 | 30.2 | 29.9 |
| Gujarat | 401 | 22006 | 24902 | 29762 | 195 | 10384 | 12205 | 14094 | 48.6 | 47.2 | 49.0 | 47.4 |
| Haryana | 49 | 7238 | 8732 | 10610 | 23 | 3186 | 3651 | 4210 | 46.9 | 44.0 | 41.8 | 39.7 |
| Karnataka | 188 | 15749 | 19238 | 26527 | 143 | 11373 | 13187 | 18525 | 76.1 | 72.2 | 68.5 | 69.8 |
| Kerala | 117 | 12538 | 14144 | 23506 | 77 | 5441 | 6177 | 10561 | 65.8 | 43.4 | 43.7 | 44.9 |
| Madhypradesh | 107 | 12127 | 14371 | 18628 | 63 | 6634 | 8017 | 9467 | 58.9 | 54.7 | 55.8 | 50.8 |
| Maharashtra | 903 | 54496 | 61150 | 103919 | 912 | 43170 | 46781 | 69100 | 101.0 | 79.2 | 76.5 | 66.5 |
| Orissa | 29 | 4586 | 5335 | 7176 | 15 | 2505 | 2845 | 3517 | 51.7 | 54.6 | 53.3 | 49.0 |
| Punjab | 185 | 17674 | 20077 | 23787 | 50 | 7278 | 8213 | 8794 | 27.0 | 41.2 | 40.9 | 37.0 |
| Rajasthan | 74 | 8786 | 10251 | 14370 | 38 | 4082 | 4650 | 6293 | 51.4 | 46.5 | 45.4 | 43.8 |
| Tamil Nadu | 233 | 20664 | 23678 | 33971 | 311 | 19618 | 22286 | 32799 | 133.5 | 94.9 | 94.1 | 96.5 |
| UttarPradesh | 337 | 32208 | 37353 | 49240 | 154 | 11409 | 12107 | 15114 | 45.7 | 35.4 | 32.4 | 30.7 |
| West Bengal | 456 | 23086 | 26643 | 39829 | 526 | 12523 | 13509 | 17975 | 115.4 | 54.2 | 50.7 | 45.0 |
| Total | 3402 | 265463 | 305654 | 434509 | 2695 | 157258 | 175863 | 238827 | 79.2 | 59.2 | 57.5 | 55.0 |
| Total all India | 3897 | 312697 | 356637 | 507533 | 3885 | 193057 | 211058 | 282702 | 99.67 | 61.7 | 59.2 | 55.7 |

Source : Economic Survey of India 1994-95, 1995-96 & 1996-97, RBI

12.9 An amount of Rs. 7656.65 crores was disbursed by the scheduled commercial banks in the country during 1996-97 as short term, medium term, and long term loans to the farming community. Out of this, Rs. 4627.46 crores (60.4%) was short term loans and Rs. 3029.18 crores (39.6%) long term loans. The largest share of loan was availed by Tamil Nadu with Rs. 1406.68 crores (18.3%) followed by Andhra Pradesh with Rs. 1228.29 crores (16%) and Gujarat with Rs. 825.20 crores (10.7%). Kerala's share was Rs. 515.98 crores (6.7%), out of which, Rs. 386.79

crores as short term loan and Rs. 129.19 crores as terms loans. While the largest share of short term loan was availed by Tamil Nadu with Rs. 1214.14 crores (26.24%), the largest share of term loan was availed by Madhya Pradesh with Rs. 355.67 crores (18.3%). Short-term loans are given for purchase of production inputs, such as seeds, fertilisers, pesticides etc. whereas, long term loans are meant for development of irrigation potential, purchase of tractors and other agricultural implements. Details are presented in Table-12.3

Table 12.3

**Scheduled Commercial Banks Direct Finance to Farmers -
Short-term Loan and Term Loan during 1996-97**

| Sl. No. | State | Short Term | | Term Loan | | Total | |
|------------------------|----------------|----------------|---------------|----------------|---------------|----------------|---------------|
| | | Amount | % | Amount | % | Amount | % |
| 1. | Andhra Pradesh | 1064.49 | 23.00 | 163.80 | 5.41 | 1228.29 | 16.04 |
| 2. | Assam | 1.84 | 0.04 | 15.85 | 0.52 | 17.69 | 0.23 |
| 3. | Bihar | 45.96 | 0.99 | 89.42 | 2.95 | 135.38 | 1.77 |
| 4. | Gujarat | 503.86 | 10.89 | 321.34 | 10.61 | 825.20 | 10.78 |
| 5. | Haryana | 44.38 | 0.96 | 125.45 | 4.14 | 169.83 | 2.22 |
| 6. | Karnataka | 435.30 | 9.41 | 243.09 | 8.02 | 678.39 | 8.86 |
| 7. | Kerala | 386.79 | 8.36 | 129.19 | 4.26 | 515.98 | 6.74 |
| 8. | Madhya Pradesh | 83.23 | 1.80 | 555.67 | 18.34 | 638.90 | 8.34 |
| 9. | Maharashtra | 218.96 | 4.73 | 233.76 | 7.72 | 452.72 | 5.91 |
| 10. | Orissa | 59.78 | 1.29 | 41.06 | 1.36 | 100.84 | 1.32 |
| 11. | Punjab | 138.99 | 3.00 | 319.61 | 10.55 | 458.60 | 5.99 |
| 12. | Rajasthan | 35.12 | 0.76 | 151.87 | 5.01 | 186.99 | 2.44 |
| 13. | Tamil Nadu | 1214.14 | 26.24 | 192.54 | 6.36 | 1406.68 | 18.37 |
| 14. | Uttar Pradesh | 229.25 | 4.95 | 328.10 | 10.83 | 557.35 | 7.28 |
| 15. | West Bengal | 112.93 | 2.44 | 88.51 | 2.93 | 201.44 | 2.63 |
| Total | | 4575.02 | 98.87 | 2999.26 | 99.01 | 7574.28 | 98.92 |
| All India Total | | 4627.46 | 100.00 | 3029.18 | 100.00 | 7656.65 | 100.00 |

Source : Report on Currency and Finance, 1996-97, Vol.2.

12.10 During the period from 1988 to 1997, Bank deposits in Kerala increased by a compound growth rate of 19% and the advances by 14% with the result that credit-deposit ratio in the state has been declining significantly over the years. The ratio, which stood at 64.77 in 1988, steadily declined to an all time low of Rs. 43.11 in 1994 and after that the ratio increased slightly to 45.52 in March 1997 and again declined to 44.58 in Sept 1997. As at the end of Sept 1997 when private banks recorded a credit deposit ratio of 44.9% State Bank group recorded only 45.6% and the other nationalised banks 39.7%, dismally low. The credit advanced by Gramin Bank far exceeded the deposits mobilised by it and thus

recorded a high CD ratio of 138.2%. During March 1997, the aggregate deposit mobilised by the bank offices functioning in Kerala increased by Rs. 2857.8 crores (14%) from Rs. 20171.30 crores in 1996 to Rs.23029.09 crores as against the increase of Rs. 2713.4 crores (16%), from Rs.17457.91 crores in 1995 to Rs.20171.30 crores in 1996. Advances increased by Rs. 1502.92 crores (17%) in March 1997, from Rs. 8960.91 crores in 1996 to Rs. 10481.83 crores in 1997 as against the increase of Rs. 1164.4 crores (13%) in 1996, from Rs. 77896.52 crores in 1995 to Rs. 8960.91 crores in 1996. The details of credit-deposit ratios of bank functioning in Kerala are presented in Appendix-12.5

12.11 An analysis of the bank-wise CD ratio showed that there were wide variations between banks with regard to CD ratios. CD ratio of State Bank of India (SBI) came down from 67.5% in 1991 to 44.3% in Sept 1997. Similarly, CD ratio of State Bank of Travancore (SBT) declined from 60% to 45.5% during the same period. Surprisingly, the CD ratio of Canara Bank, the Lead Bank of the state, had been very low over the years. Even in 1991, when State Bank of India (SBI) and State Bank of Travancore (SBT) recorded CD ratios of 67.5% and 60% respectively, the CD ratio of Canara Bank was as low as 49.4 %. The CD ratio of Canara Bank declined to 31.4% in Sept. 1996 but afterwards improved to 40.3% in Sept. 1997. During this years, out of the total number of 25 public sector banks functioning in the state, only five banks showed CD ratio below that of Canara Bank. They are Bank of

Baroda (30.7%). Corporation Bank (31.8%) Indian Overseas Bank (27%) Syndicate Bank (28.5%) and Vijaya Bank (36%). The CD ratios (1991-97) of selected major banks operating in the State are presented in Table 11.4. The low CD ratios of the major banks like Canara Bank, Indian Overseas Bank and Syndicate Bank since nineties, is a matter viewed seriously by the State Government for some time. Accordingly Reserve Bank of India had set up a committee to examine the reasons for the low CD ratio in the State. The committee (DD. Avari Committee) endorsed the State's view that the credit-disbursement of commercial banks functioning in Kerala was totally inadequate and also observed that "the philosophy of banking needs a new orientation and human touch under the Kerala situation". The Avari Committee had recommended that the banks may reorient their credit operations in such a way that they

Table 11.4
Credit Deposit Ratios of selected Major Bank Operating in Kerala

| Sl. No. | Name of Banks | Credit Deposit Ratio (March end) | | | | | | |
|---------------|--------------------------|----------------------------------|------|------|------|------|------|------|
| | | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| 1. | State Bank of India | 67.5 | 59.9 | 54.2 | 45.3 | 44.7 | 47.0 | 48.0 |
| 2. | State Bank of Travancore | 60.0 | 50.6 | 49.5 | 44.5 | 48.0 | 43.5 | 45.2 |
| 3. | Canara Bank | 49.4 | 41.5 | 37.1 | 29.0 | 28.0 | 30.4 | 35.1 |
| 4. | Indian Overseas Bank | 35.6 | 28.0 | 25.2 | 21.8 | 24.0 | 25.8 | 25.0 |
| 5. | Syndicate Bank | 48.6 | 37.3 | 33.7 | 27.9 | 26.4 | 33.0 | 29.2 |
| 6. | Indian Bank | 74.9 | 72.0 | 69.7 | 61.0 | 51.5 | 61.3 | 47.5 |
| 7. | Bank of Baroda | 36.9 | 36.0 | 39.3 | 37.3 | 35.9 | 39.2 | 34.0 |
| 8. | Central Bank of India | 62.6 | 58.0 | 58.8 | 46.0 | 53.0 | 50.3 | 44.0 |
| 9. | Union Bank of India | 69.7 | 57.0 | 47.6 | 44.5 | 45.0 | 45.7 | 47.3 |
| 10. | Vijaya Bank | 54.5 | 46.0 | 40.3 | 38.0 | 35.0 | 41.6 | 36.0 |
| State Average | | 59.0 | 51.0 | 48.0 | 43.1 | 44.7 | 44.4 | 45.5 |

Source : SLBC-State Level Bankers' Committee

are able to achieve CD ratio of 60% by 2001 in two stages, CD ratio of 55 % by 1998-99, 60 % by 2000-2001, the projections are presented in Table 12.5

Table 12.5

Avari committee's projections for attaining CD ratio of 55% by 1998-99 and 60% by 2000-2001 by all banks in Kerala

| Details | Projections of CD Ratios | | |
|--------------------------------------------------------------------------------------|--------------------------|-------|-------|
| | 1994 | 1995 | 1996 |
| 1. Year-wise projection of CD ratios required to attain a CD ratio of 55% by 1998-99 | 44.15 | 46.20 | 48.40 |

| | | | |
|---------------------------------------------------------------------------------------|-------|-------|-------|
| 2. Year-wise projection of CD ratio required to attain a CD ratio of 60% by 2000-2001 | 44.13 | 46.40 | 48.66 |
| 3. Actual CD ratios of all Banks | 43.10 | 44.70 | 44.70 |
| Short fall (2 minus 3) | 1.03 | 1.70 | 4.26 |

Source: D.D. Avari Committee Deposit, RBI.

NRE Deposit

12.12 Out of the total deposit of Rs.24150.17 crores (Sept. 1997) mobilised by all the banks operating in Kerala Rs. 10722.9 crores (39%) were NRE deposits. Compared to the position in September

1996, the NRE deposit increased by Rs. 1761.9 crores (20%). During the period 1988-1997, while the NRE deposit recorded a compound annual growth rate (CARG) of 25% non NRE deposits recorded a growth of only 16%. The annual rate of growth of total

deposits, domestic deposits (total deposit minus NRE deposit) and NRE deposits are presented in the Table 12.6 Concerted efforts are needed for channalising a larger share of the NRE deposits for investment purposes within the state. Considering the very large

Table 12.6
Growth of NRE Deposits

(Rs. Crores)

| Year | Total Deposit | | NRE Deposit | | Domestic Deposit | |
|------|---------------|------------------|-------------|------------------|------------------|------------------|
| | Amount | Annual Growth(%) | Amount | Annual Growth(%) | Amount | Annual Growth(%) |
| 1988 | 4811 | -- | 1369 | -- | 3442 | -- |
| 1989 | 5667 | 17.8 | 1584 | 15.7 | 4083 | 18.6 |
| 1990 | 6620 | 16.8 | 2012 | 27.0 | 4608 | 12.9 |
| 1991 | 7858 | 18.7 | 2304 | 14.5 | 5554 | 20.5 |
| 1992 | 9671 | 23.1 | 3039 | 31.9 | 6632 | 19.4 |
| 1993 | 12112 | 25.2 | 4499 | 48.0 | 7613 | 14.8 |
| 1994 | 14941 | 23.4 | 6015 | 33.7 | 8926 | 17.3 |
| 1995 | 17458 | 16.9 | 6886 | 14.5 | 10572 | 18.4 |
| 1996 | 20171 | 15.5 | 8103 | 17.7 | 12068 | 14.2 |
| 1997 | 23029 | 14.2 | 9957 | 22.9 | 13072 | 8.3 |

Source : State Level Banker's Committee

contribution by the Keralites to the foreign exchange reserves of the Country, Government of India should come forward in a substantial measure to : (a) rehabilitate the migrants who are forced to return and (b) for ensuring investment of a larger chunk of NRE deposit within the state. Out of the total NRE deposit of Rs. 10722.99 crores (Sept. 1997), an amount of Rs. 8015.1 (74.8%) was mobilised by the public sector bank and Rs. 2707.8 (25.2% by private sector banks. As regard the institution-wise share, State Bank of Travancore (SBT), stood first with Rs. 2311 crores (21.6%), followed by State Bank of India (SBI) Rs.1449 crores (13.5%) Federal Bank Rs. 1435 crores (13.4%), Canara Bank Rs. 1312 crores (12%) and Indian Overseas Bank (IOB) Rs. 818 crores (7.6%). Out of the total amount of Rs. 2708 crores mobilised by all the thirteen private tanks under review the major chunk of Rs. 2426 crores (89.6%) was shared by three banks - Federal Bank, South Indian Bank and Catholic Cyrian Bank.

Priority Sector Advance

12.13 During the period under review, out the total advance of Rs.10,481.8 crores disbursed by the banks in Kerala, Rs.4539.1 crores (43.3%) was to the priority sectors. Details are presented in table 12.7 This percentage is above the national guideline that

40% of total advances should be to the priority sectors. But it should be noted that this guideline has an inherent weakness, because it calculates the priority sector advances as a percentage of net advances, which has been declining proportionately, instead of calculating priority sector deposits as a proportion of total deposits, which has been increasing continuously. Consequently, eventhough the proportion of priority sector advance to net advances was 43.3 per cent in 1997, priority sector advance as a proportion of total deposits was only 19.7 percent, the total deposit being Rs. 23029 crores.

12.14 An analysis of the sector-wise distribution of priority sector advance from 1992-to 1997 a shows that while the share for agriculture sector declined steadily from 38.2% in 1992 to 35.2% in 1997, that of small scale industries sector remained stagnant around 31%. Since the main source of income for the livelihood of majority of the weaker section is agriculture, the decline in the share of credit to agriculture sector is a cause of serious concern. In this context, an observation made by D.D. Avari Committee setup by the RBI in 1994 is noteworthy. "The credit policies should have the right orientation to take the special problem of the small and marginal farmers and the banking sector should extend a helping hand to the small farmers for bringing them to the main stream of development".

Table 12.7

Priority Sector Advance Disbursed by Commercial Banks - Kerala

(Rs. Crores)

| Year | Total Advance | Total Priority Sector Advance | | Out of which, advance to | |
|------|---------------|-------------------------------|-----------------------------|--------------------------|-------------------|
| | | Amount | Percentage to total advance | Agricultural Sector | SSI Sector |
| 1992 | 5003 | 2150.9 | 43.0 | 820.8 (38.2) | -- |
| 1993 | 5818 | 2380.2 | 40.9 | 913.9 (38.4) | -- |
| 1994 | 6442 | 2590.1 | 40.2 | 953.2 (36.8) | 810.9 (31.3) |
| 1995 | 7797 | 3407.1 | 43.7 | 1199.0 (35.2) | 1090.3 (32.0) |
| 1996 | 8961 | 3993.7 | 44.6 | 1363.70 (34.2) | 1223.1 (30.6) |
| 1997 | 10482 | 4539.1 | 43.3 | 1596.9 (35.2) | 1445.30 (31.8) |

Source : State Level Bankers Committee meeting

Figures in brackets indicate percentage to total priority sector advance

LOCAL SELF GOVERNMENT

The year under review has been remarkable for initiating the process of empowering the local bodies in the State to function as not only institutions of self-government, but also as the agents of local development. Until recently, their role as even institutions of local self-government was rather limited, restricted as it tended to be, principally to traditional civic functions. It is still a period of transition. Yet what has already been achieved provides much scope for optimism and points to far reaching long run benign socio-economic consequences.

13.2 The agenda of decentralization is not exhausted by democratic governance or transparent and participatory administration. It has also an economic agenda. Decentralized planning can contribute to the formulation of more locally relevant and integrated development programmes, mobilisation of untapped local resource potential and more effective implementation and monitoring of local schemes and works. It is indeed a strategic line to improve productivity and production of agriculture, animal husbandry, fisheries, small scale industries and such other petty production sectors and to improve the quality of services in education, health, drinking water, sanitation, and housing sectors.

The Local Bodies in the State

13.3 But for a brief period in the beginning of the 1990's when the District Councils were in place, the State has had a single tiered panchayat

system in the rural areas. Now in addition to the 990 grama panchayats there are 152 block panchayats and 14 jilla panchayats. The three tier panchayathi raj system came into existence in the state on 2/10/1995. Besides these rural local bodies there are 55 municipal councils and three municipal corporations- Thiruvananthapuram, Cochin and Kozhikode.

Grama Panchayats

13.4 Table 1 gives district wise distribution of grama panchayats, block panchayats and municipalities in the state. The number of grama panchayats has tended to come down due to upgradation of some of them to municipalities. In 1985 there were 1001 grama panchayats. The latest number is 990. A key feature of Kerala's grama panchayats is their relatively larger size when compared to those in other states. An average grama panchayat in Kerala is 37.83 sq kms in area and has a population of 25199 (1991 census). The grama panchayats are often even larger than the revenue villages. There are 1384 revenue villages in the state. Many panchayats cover more than 1 revenue village and in some cases the villages fall in more than one panchayat.

13.5 The district averages presented in table 1 hide very significant inter-panchayat difference in size. In 1991 the least populous panchayat of Vattavada in Idukki district had a population of 4588 while the most populous panchayat of Munnar in the same district had a population of 78343. In terms of

Table 1
Distribution of Grama Panchayats, Block Panchayats and Municipalities by District

| District | No of G Ps | Avg. Area (sq.km) | Avg. Population | No of B Ps | Avg. Area (sq.km) | Avg. Population | No. of Municipalities | Avg. Area (sq.km) | Avg. Population |
|--------------------|------------|-------------------|-----------------|------------|-------------------|-----------------|-----------------------|-------------------|-----------------|
| Thiruvananthapuram | 84 | 24.28 | 27032 | 12 | 169.93 | 189227 | 4 | 17.96 | 37979 |
| Kollam | 71 | 34.00 | 30655 | 13 | 186.66 | 168007 | 3 | 24.09 | 74439 |
| Pathanamthitta | 54 | 49.36 | 19739 | 9 | 293.05 | 118807 | 3 | 24.18 | 40710 |
| Alappuzha | 71 | 17.62 | 23406 | 12 | 104.24 | 138496 | 5 | 22.08 | 67863 |
| Kottayam | 73 | 29.25 | 22863 | 11 | 195.73 | 151727 | 4 | 13.43 | 39820 |
| Idukki | 51 | 99.38 | 20367 | 8 | 636.33 | 129839 | 1 | 35.43 | 40656 |
| Ernakulam | 86 | 24.76 | 22979 | 15 | 142.42 | 131809 | 8 | 18.31 | 34536 |
| Thrissur | 98 | 30.63 | 22479 | 17 | 170.68 | 145943 | 7 | 13.81 | 36582 |
| Palakkad | 90 | 48.02 | 23573 | 13 | 336.12 | 164859 | 4 | 26.69 | 59768 |
| Malappuram | 94 | 36.16 | 30181 | 14 | 242.80 | 202647 | 5 | 29.40 | 51855 |
| Kozhikode | 76 | 29.05 | 27235 | 12 | 185.77 | 177306 | 2 | 21.33 | 72434 |
| Wayanad | 24 | 87.15 | 27049 | 3 | 697.17 | 216393 | 1 | 34.14 | 22949 |
| Kannur | 81 | 35.65 | 23866 | 9 | 306.96 | 209380 | 6 | 29.34 | 52473 |
| Kasaragod | 37 | 51.49 | 26060 | 4 | 476.27 | 241054 | 2 | 28.11 | 53646 |
| Total | 990 | 37.83 | 25199 | 152 | 296.01 | 170392 | 55 | 24.16 | 48784 |

area Valapattanam in Kannur district, with 2.04 sq kms, is the smallest and Kumily in Idukki with an area of 795.28 sq kms is the largest.

13.6 The grama panchayats also vary widely in terms of their revenue. The classification of the grama panchayats on the basis of their annual revenue for 1983 is given in Table 2. This classification was done under Kerala Panchayat Establishment Rules of 1976. With the passing of Kerala Panchayats Subordinate Rules of 1994 the above classification has become defunct. Still, the data given in table 2 will provide an indication of the relative differences in the financial status of the grama panchayats.

Table 2
Classification of Grama Panchayats according to the Revenue (1983)

| Grade | Norms | Number |
|---------------|-----------------|--------|
| Special Grade | Above Rs.175000 | 339 |
| Ist Grade | 100000 - 175000 | 435 |
| IInd Grade | 50000 - 100000 | 206 |
| IIIrd Grade | Below 50000 | 10 |

Municipalities

13.7 The average population of a municipality in 1991 was 48785. The smallest is

Kunnamkulam in Thrissur district with a population of 19657 and the largest is Alappuzha in Alappuzha District with a population of 17466. In terms of area, Payyannur in Kannur District (54.63 sq km) is the largest and Guruvayur in Trichur district is the smallest (6.49sq km). Among the three Corporations, the most populous is Cochin (564589) followed by Thiruvananthapuram (524006) and Kozhikode (419831). In 1993-94, 14 municipalities had an annual income of Rs.70 lakhs, 21 municipalities had an annual revenue between 40 to 70 lakhs and 20 municipalities had an annual revenue of less than 40 lakhs.

Local Finance

13.8 As can be seen from Table 3 the major receipts of local bodies in Kerala are:

Own Taxes i.e., taxes assigned by statute to the local bodies which are levied by them;

Assigned Taxes i.e., taxes which are statutorily assigned to local bodies but collected by state government and made over to local bodies;

Shared Taxes i.e., taxes which are assigned to the state government and collected by them but a share of the proceeds is disbursed among local bodies;

Non-Tax Revenue i.e., income from sources such as property, license fees, etc.

Table 3
Total Receipts of Local Bodies (1993-94)

| Revenue Receipts | Grama Panchayats (Rs. lakhs) | Percentage | Municipalities & Corporations (Rs. lakhs) | Percentage |
|-------------------|------------------------------|------------|-------------------------------------------|------------|
| 1. Own Taxes | 4386 | 32.2 | 5571 | 50.0 |
| 2. Assigned Taxes | 3133 | 23.0 | 780 | 7.0 |
| 3. Share Tax | 750 | 5.5 | 339 | 3.0 |
| 4. Non Tax Rev. | 1571 | 11.5 | 2041 | 18.3 |
| 5. Grants | 3298 | 24.2 | 780 | 7.0 |
| Revenue Receipts | 13145 | 96.5 | 9511 | 85.4 |
| Capital Receipts | 473 | 3.5 | 1632 | 14.6 |
| Total | 13618 | 100.0 | 11143 | 100.0 |

Grants from government which may be either tied or untied.

Loans from government and other financial institutions. These comprise capital receipts.

13.9 Own taxes and the non-tax revenues together constitute the own revenue of the local bodies. In 1993-94, the own revenue of the grama panchayats in Kerala was around 44% of their total receipts. For India the ratio was only around 10% in the case of the rural local bodies. The urban local bodies enjoy much higher fiscal autonomy in Kerala as well as in the other states. The share of own revenues in the total receipts of the urban local bodies in

Kerala was around 68% in 1993-94.

Own Tax Revenue

13.10 The Tax on Buildings, accounts for around 50% of the Own Tax Revenues of the rural and urban local bodies in Kerala. The revenues from the Building Tax has also been relatively more buoyant given the building boom in the State. In 1980-81 its share in the Own Tax Revenue of the grama panchayats was only around 42%. The next most important tax in terms of Own Revenue is Professional Tax, accounting for 29% of the Own Tax Revenues of grama panchayats and 6% of that of the urban local bodies.

For the urban local bodies the Entertainment Tax is a part of the grants to urban local bodies. The grama panchayats are more dependent upon grants than the urban local bodies.

13.11 Loans do not constitute an important source of financing of the rural local bodies. In 1993-94 the share of loans in the total receipts of rural local bodies was only 3.5 per cent whereas it was 14.6 per cent for the urban local bodies. The loans are taken from the State Government or institutional agencies. A special mention must be made in this context of Kerala Urban Development Finance Corporation (KUDFC) and the Kerala State Rural Development Board.

Kerala Urban Development Finance Corporation

13.12 The corporation gives financial assistance to urban local bodies for the development of infrastructure facilities like construction of commercial complexes, office buildings, roads, town hall etc. The corporation had extended financial assistance on 667 schemes of various urban local bodies upto March 1997, with the amount adding up to Rs.66.57 crores. Out of these 547 schemes had already been completed. During 1996-97, the corporation has financed 28 schemes, amounting to Rs.2.67 crores. In addition, the corporation is acting as a nodal agency of HUDCO for centrally assisted schemes like NRY, low cost sanitation etc.

Kerala State Rural Development Board

13.13 The board, as a financial agency, undertakes remunerative development works like construction of shopping complexes, market centres, bus stands, lodges, office buildings etc. in panchayats. It had completed 679 schemes upto March 1997 in various panchayats. 38 schemes were under various stages of execution. During 1996-97 an amount of Rs.2.62 crores was sent for the implementation of remunerative development schemes. A proposal for restructuring the Board so as to make it a more effective financial institution rather than implementation agency, in the context of the ongoing process of decentralisation, is under consideration.

Non Tax Revenues

13.14 An important trend in the receipts of the local bodies in the State is the decline in the share of Non Tax Revenues. In 1993-94, they accounted for only 11.3% of the total receipts of the rural local bodies and 18.3% in the urban local bodies. Income from properties is the most important component of the Non Tax Revenues, accounting for 50 to 60 percent of the sub-total. Various license fees comes next in importance.

13.15 The State Finance Commission of Kerala has pointed out that the potential of Own Rev-

enues of the local bodies is not yet fully being exploited, particularly, in the case of Building Tax and Professional Tax. It is also important that the local bodies attempt to enhance their Non Tax Revenues through the introduction and enhancement of user charges and service fees.

Fiscal Transfers

13.16 A number of tax revenues collected at the state level are passed on to the local bodies, partially or wholly and they constitute a significant part of the receipts of the local bodies. The surcharge on Stamp Duty and Basic Tax are the two assigned taxes that account for 23 and 7 per cent of the total receipts of the rural and urban local bodies respectively. The Motor Vehicle Tax is the only tax collected by the State Government and shared with the local bodies.

13.17 The grant-in-aid for the local bodies may be of two types; (a) tied or specific purpose grant and (b) untied or general purpose grant. In the former, the purpose for which the local body is to use the fund is defined by the State Government. In 1993-94 untied grants constituted 63 per cent of the grants to the rural local bodies and 84 per cent

Pattern and Trends in Expenditure

13.18 Table 4 reflects the traditional pattern of expenditure of the local bodies in Kerala. The establishment charges are a major claimant of the income of the grama panchayats accounting for 42 per cent of the total expenditure in 1993-94. For the urban local bodies the ratio was only 16 percent.

13.19 Public works such as roads and buildings constituted the main developmental activity of the local bodies. Small wonder, they are the biggest component of expenditure both for rural local bodies (42%) and urban local bodies (33%). Unlike many other States the local bodies in Kerala, but for Malabar District Board of the fifties, did not traditionally play any important role in education. Historically, educational sector was financed either by various communities and organisations aided by the State government or directly by the State government itself. Therefore, the proportion of expenditure on education by the local bodies in Kerala is relatively low. The low expenditure on drinking water is partly a reflection of the centralisation of water supply function under Kerala Water Authority. Public health and sanitation is an important item of expenditure in the urban areas accounting for as much as fifth of the total expenditure.

Plan Schemes

13.20 The share of plan expenditure by the local bodies was not very significant. Their involvement in the plan has been confined to the utilisation

Table 4
Total Expenditure of Local Bodies, 1993-94

| Item | Grama Panchayat (Rs. lakh) | Percentage | Municipalities & Corporations (Rs.lakh) | Percentage |
|-----------------|-------------------------------|------------|-----------------------------------------------|------------|
| Establishment | 4525 | 36.7 | 1856 | 15.9 |
| Public Works | 5236 | 42.4 | 3831 | 32.9 |
| Education | 322 | 2.6 | 147 | 1.2 |
| Drinking Water | 212 | 1.7 | 1042 | 9.0 |
| Street Lighting | 782 | 6.4 | 720 | 6.2 |
| Public Health | 256 | 2.1 | 2470 | 21.2 |
| Others | 698 | 5.7 | 584 | 5.0 |
| Debt Servicing | 297 | 2.4 | 1007 | 8.6 |
| Total | 12337 | 100 | 11659 | 100 |

of the untied plan grants and the implementation of schemes, particularly, the Centrally Sponsored Schemes that are mandatorily implemented through the local bodies. The rural development programmes that are implemented through or with the cooperation of the local bodies have already been discussed in a separate chapter. Therefore we shall confine here to some of the major schemes of urban development that have been implemented through municipalities and corporations.

13.21 The Urban Environment Improvement Scheme envisages payment of financial assistance to the urban local bodies in the form of loan and grant on 50:50 basis for the overall improvement of the slum areas. The urban local bodies themselves formulate the schemes, in consultation with the Town Planning Department. The details of physical and financial achievements under the scheme during the last three years are furnished in Table 5.

13.22 Non-remunerative Town Improvement Scheme provides financial assistance to the urban local bodies in the form of loan and grant on 50:50 basis for their non-remunerative undertakings such as construction of Municipal Office building, Town Hall, Roads, Drains etc. As can be seen, financial assistance under this scheme has tended to be relatively smaller compared to that for remunerative projects.

13.23 Urban Basic Service Programme envisages provision of basic services and essential amenities like water supply and low cost sanitation,

and covers education programme to improve awareness, motivation, immunisation, child health and maternal health. The scheme is being implemented in the following municipalities and corporations Alappuzha, Cherthala, Mavelikkara, Chengannur, Kochi, Tripunithura, Parur, Angamali, Aluva, Kothamangalam, Perumbavoor, Muvatupuzha and Adoor. During the last three years the state government, have made available a total sum of Rs.105 lakhs to these urban local bodies for the execution of the programme envisaged in the plan of action prepared by them. The municipalities altogether spent a total sum of Rs.120 lakhs under this scheme during this period. The excess expenditure was met by the beneficiaries and the concerned municipalities.

13.24 Integrated Development of Small and Medium Towns, a centrally sponsored scheme, introduced in 1979-80, attempts to slow down migration from rural areas and smaller towns to large cities by the development of selected small and medium towns which are capable of generating economic growth and employment. The scheme is applicable to the towns having population up to 5 lakhs. The financial pattern under the scheme includes Central assistance, State's contribution and loans from HUDCO/Financial Institution. So far 31 towns from Kerala have been covered under this scheme.

13.25 Nehru Rozgar Yojana, introduced in 1989-90, aims at generation of more employment opportunities to the urban youth living below poverty line. The broad three components of the scheme are

Table 5
Physical and Financial Achievements Under Environmental Improvement Schemes

| Year | Improvement of Urban Slums | | Non-remunerative Town Improvement Scheme | |
|---------|----------------------------|------------------------|------------------------------------------|------------------------------|
| | Physical (Rs in Lakhs) | Financial (Persons) | Physical (Rs. in Lakhs) | Financial (No of Schemes) |
| 1994-95 | 100.00 | 12700 | 40.00 | 9 |
| 1996-97 | 100.00 | 12800 | 40.00 | 8 |
| 1997-98 | 150.00 | 16000 | 60.00 | 20 |

urban micro enterprises, urban wage employment and housing and shelter upgradation.

13.26 The micro enterprises scheme is designed to encourage unemployed and under-employed urban youth to set up self employment ventures. The unit cost is fixed at Rs.16,000 for general category and Rs.20,000 for women and SC/STs. A subsidy of 20 per cent of the unit cost of the enterprises subject to a maximum of Rs.4000 per beneficiary in general category and Rs.5000 for SC/ST and women is given by the Central and State governments on 60:40 basis and the balance 75 per cent as bank loan. The total subsidy made available to the urban local bodies between 1989-90 and 1995-96 was Rs.956 lakhs.

13.27 The urban wage employment scheme is designed to provide employment to the urban poor through the creation of socially and economically useful public assets. The municipal towns having a population below one lakh are eligible for getting assistance under this scheme. The total number of projects taken up from 1989-90 to 1995-96 was 2504 and the total amount made available to the municipalities was Rs.1019 lakhs. Nehru Rozgar Yojana has been replaced by Swarna Jayanthi Shahari Rozgar Yojana from 1-12-97.

13.28 Modernisation of Slaughter Houses is an another 50 per cent Centrally Sponsored Scheme that is being implemented in four municipalities and Thiruvananthapuram Corporation. The total amount sanctioned under this scheme was Rs135.75 lakhs. Besides, another 40 lakhs is also being sanctioned by the Central for extension of the scheme to four more municipalities.

Development Authorities

13.29 The three major Development Authorities which undertake development activities in the cities are Thiruvananthapuram Development Authority (TRIDA), Greater Cochin Development Authority (GCDA) and Kozhikode Development Authority (KDA). Their roles are mainly confined to development of infrastructure facilities like shopping complexes, markets, road, drainage, stadium, bus stand, development of residential plots and housing schemes. These authorities avail of financial assistance from the Central and State Governments, HUDCO and KUDFC. Table 6 shows the expenditure of these development authorities during 1994-95, 1995-96 and 1996-97.

Table 6

Financial achievement of TRIDA, GCDA & KDA during 1994-95, 1995-96 and 1996-97

(Rs.Lakhs)

| Name of Development Authority | Year | | |
|-------------------------------|---------|---------|---------|
| | 1994-95 | 1995-96 | 1996-97 |
| TRIDA | 118.68 | 85.81 | 605.50 |
| GCDA | 538.64 | 3045.83 | 801.77 |
| KDA | 108.40 | 280.70 | 501.00 |

Town Planning

13.30 The Town Planning Department in the state is mainly concerned with the enforcement of building rules, preparation of development plans for urban and rural areas and for fast growing regions such as agro industrial centres, pilgrim centres and tourist centres. The local bodies and other development agencies are responsible for implementing the development plans prepared by the department. The department is also involved in the survey of urban and rural areas, collection and analysis of data, preparation of urban plans etc. As part of its advisory role in urban development, it provides, financial assistance to minor development authorities for implementing statutory town planning schemes, by way of grant and loan. It also extends financial assistance to municipalities and townships for implementing town planning schemes.

THE PEOPLES CAMPAIGN FOR NINTH PLAN

13.31 The first time a direct role in planning was sought to be given to the local bodies was when in 1989-90 the State Government, following the recommendations made by Shri S.B.Sen, decided to provide every village panchayat with an untied plan grant which they could utilise according to their own priorities. The provision for this untied grant was Rs. 30 crores in 1995-96.

13.32 The next major milestone was laid in the budget of 1996-97 when Rs.69 crores was provided for the urban local bodies and Rs.143 crores for the rural local bodies as untied plan grants. Of the untied funds to the rural local bodies Rs.100 crore was allocated to village panchayats, Rs.15 crores for block panchayats and Rs.28 crores to the district

panchayats. Out of the provision for the urban local bodies Rs.15 crores was for the three corporations and Rs.54 crores for the municipalities. These allocations were in addition to the schematic transfers that were made in respect of the functions that were delegated to the Panchayati Raj institutions. Such transferred schemes totalled Rs.109.2 crores.

13.33 The above significant enhancement of the untied funds to the local bodies in 1996-97 was made "in order to enable panchayats to initiate the preparation and implementation of local level need based plan programmes for development." But it must be admitted that a review of the utilisation of this substantial amount of untied funds has revealed the number of disquieting trends. None of the local bodies prepared any plan. The most popular method was to divide funds equally between ward members for various works, mostly roads, selected by them.

13.34 Despite the above not so encouraging experience, the State Government resolved to provide even higher plan allocation for the local bodies for the year 1997-98, the first year of the Ninth Plan. In June 1996 the government of Kerala approved the recommendation of the State Planning Board to earmark 35-40 per cent of the State Plan outlay for projects and programmes drawn up by the local bodies. It also resolved to launch a "People's Campaign for 9th Plan" in order to ensure that the local bodies, starting from the grama panchayat prepare their local plans in a scientific, participatory and time bound manner. The campaign was to bring together government officials in the various line departments, retired officials and non-official experts, volunteers and the mass of people under the leadership of local representatives in an effort to empower the local bodies for genuine grassroot planning. The approach paper approved by the government through a formal order envisaged a five stage planning process. A brief review of each of these stages follows:

Phase I: Grama Sabhas (August-October 1996)

13.35 Identification of the felt needs of the people was the first step in the decentralised planning exercise. It was accomplished by convening the Grama Sabhas, ensuring maximum participation of people, especially, women and other weaker sections of the society in order to discuss the local development problems. In the urban areas Ward Conventions were organised for the purpose. In order to ensure maximum participation; the Grama Sabhas were convened on holidays; squads of volunteers visited households and explained the programme; preparatory meetings of mass organisation were held; and an active propaganda using posters, advertisements, and involving all branches of the media was resorted to. It is estimated that around 3 million persons partici-

pated in these Grama Sabhas/Ward Conventions and of them about 27 per cent were women.

13.36 One of the major achievements of the People's Campaign has been in dispelling the general attitude of skepticism towards the Grama Sabhas. It was generally considered that, given the settlement pattern in Kerala, absence of strong village assembly tradition and large size of an average Grama Sabha in the state, the effective functioning of these bodies as instruments of participative planning were impractical. But the first phase of the campaign through its careful preparation, mass enthusiasms and organisational innovations proved in practice the viability of the grama sabhas. The discussions in the grama sabha were organised in groups of 25-50, one for each development sector in addition to one group for SC/ST development and one for women's development. Given the large size of grama sabhas in the state, the organisation of sector-wise group discussion made it possible for maximum number people to participate in the deliberations in a meaningful manner. Around one lakh resource persons at the local level were given training to act as facilitators in the discussion groups. A semi structured questionnaire was also distributed to help the flow of discussions.

The major gains in the success of the special grama sabha meetings were:

- 1 The felt needs, their priorities and development preceptions of the people in every localities were listed.
- 2 A general awareness was created among various sections of people regarding the decentralisation programme.
- 3 The basic organisational structure of the Campaign was laid.

13.37 The review undertaken by the State Planning Board of the special grama sabhas convened in connection with the campaign revealed some weaknesses. The extent of participation varied widely not only between districts but also within districts. In some panchayats like Pathiyoor more than one thousand persons participated in grama sabhas, whereas in the same Alappuzha District there were grama sabhas that barely met the quorum requirements. The inter panchayat differences cannot be explained in terms of political affiliations of the Panchayat Committees alone. Generally, the participation was found to be negatively correlated to the extent of urbanisation. However, the determining factor seems to have been the commitment and the interest of the elected representatives themselves.

13.38 The average participation in the grama sabhas was only 180. Although it was much higher than the legal quorum of 50, the fact remains that the majority of the people did not attend the grama sabhas. Further, women were only around 25% of the partici-

pants. Also the representation of SC and ST population was not satisfactory. Discussions in many of the gramma sabhas were confined to the listing of demands rather than analysing the problems and prioritizing the needs.

Phase II : Development Seminars (October-December 1996)

13.39 The Development seminars were organised in every grama panchayat and municipality. The discussions in the development seminars were centered around the Panchayat/Municipal Development Reports. Development Reports were to be drafted on the basis of the following exercises;

- (1) consolidation of Grama Sabha reports
- (2) review of ongoing schemes
- (3) collection of secondary data
- (4) geographical study of the area, and
- (5) a brief survey of local history

13.40 The Development Reports were to make an objective assessment of the resource potential and problems of each development sector with a historical perspective. On the basis of such an objective analysis and with explicit consideration of the problems identified by the gramasabbas, a list of recommendations for development action for each of the sectors was to be drawn up. The focus of group discussions in the development seminars was on these recommendations. A systematic review of the Development Reports has been undertaken by the State Planning Board. The majority of the reports were of high quality, even in an academic sense, and easily qualified to be the best available benchmark studies on the development of respective areas.

Output of the Second phase included;

- (1) generation of an extensive local data base,
- (2) a comprehensive survey of all development sectors for all panchayats and municipalities,
- (3) a list of plausible solutions to the development problems, and,
- (4) formation of task forces to prepare development projects for each development sector.

13.41 It has been estimated that around 5 lakh persons, consisting of representatives from grama sabhas, elected representatives, local leaders of political parties, line department officials, local experts, etc., participated in the development seminars.

Phase III : Task Forces (December 1996-March 1997)

13.42 Sector-wise task forces constituted at the grassroot level were supposed to projectise the recommendations and suggestions which emerged

from the development seminars. On an average, 12 task forces were constituted in each local body to cover various development sectors. As many as 12,000 task forces were trained at the village level alone with a total participation of at least 1.2 lakh persons. The task forces prepared around one lakh projects for the consideration of the Panchayats.

13.43 The task of project preparation demanded participation of more officials and technically qualified people than the earlier phases. Accordingly, special efforts were made to ensure participation of officials and local level experts. While the chairperson of the task force was an elected representative, an officer from the concerned line department was its convenor. A simple and transparent format was proposed for the projects to be prepared by the task forces. In order to ensure uniformity, it was suggested that the project reports should generally have the following components :

| | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Introduction | : explaining necessity and relevance of the project. |
| Objectives | : in well defined (as far as possible in quantitative/measurable) terms. |
| Beneficiaries | : criteria proposed to be followed in selecting beneficiaries or benefiting areas. |
| Activities | : technical analysis and time-frame of all project activities. |
| Organisation | : agencies and their role in implementing the project activities |
| Financial analysis: | investment needed for each activity and identification of source of funds. |
| Achievements | : preliminary analysis of all direct and indirect benefits and costs Monitoring details of the proposed monitoring mechanism. |

13.44 A separate set of guidelines for the preparation of SCP and TSP projects was also given. Further, it was recommended that the local bodies earmark 10 per cent of the plan assistance for projects meant for the development of women. Special care was also taken to see that the task forces prepare projects with an integrated approach.

13.45 A review by the State Planning Board showed that the task forces did not function as effectively as was expected. The main weakness was that adequate number of experts could not be attracted to the taskforces. The participation of officials was also far from satisfactory. The training given to the taskforce members was also inadequate. An interim review of the projects prepared revealed numerous weaknesses, particularly with respect to technical details and financial analysis. Therefore, a number of rectification measures like project clinics, re-orientation conferences etc.

were organised. All these created unforeseen delays in the final plan preparation.

Phase IV: Annual Plan Finalisation - (March-May 1997)

13.46 At the end of the third phase every grama panchayat and municipality had a shelf of projects corresponding to the development problems identified by the people. By then the grant-in-aid allocated to each local body by the State Government was also made known. This set the stage for the fourth phase, wherein the projects prepared by the task forces were prioritized and incorporated into the five year plans of the panchayats. For finalising the plan, the panchayats had to;

1. make a clear assessment of their capacity to mobilise additional resources from various sources to finance the plan
2. evolve a development strategy on the basis of problems-identified and resource potential of the locality, prioritise and select projects to be implemented, and
3. decide on a monitoring mechanism for successful implementation of each project selected.

13.47 On the basis of the above analysis, each panchayat was supposed to prepare a plan document comprising of eight chapters, viz., introduction, the development strategy, resource mobilisation, sectoral programmes, integrated development, welfare of scheduled castes and scheduled tribes, women's development programmes, and monitoring. In order to ensure that the local plans were sensitive to the development challenges and priorities at the State level, certain broad guidelines on sectoral allocation of plan funds, programmes were given.

13.48 The delays and problems in project preparation had an adverse impact upon plan finalisation. The drawing up of the plan document proved to be more difficult than was expected. One reason for this situation was that the training programme for the fourth phase focussed only on the elected representatives and in many areas adequate voluntary help failed to come forth.

Phase V: Annual Plan of Higher Tiers (April-September 1997)

13.49 The Blocks and District Panchayat were supposed to start preparation of their annual plans only after grama panchayats had drafted their plans. The sequential ordering of the processes was made in order to ensure that the plans of the various tiers are integrated and the plans of the higher tiers are complimentary to those of the lower tiers. A simple method of integrating the analysis and programmes of the grama panchayats at block and

district level was also proposed. The block panchayats and district panchayats also organised seminars to discuss their draft plans.

13.50 Because of the delay in the preparation of the grama panchayats plan the integration of the plans of the different tiers could not be effectively undertaken. As a result there were many instances of duplication of planned activities and also critical gaps between the various tiers.

Phase VI: Plan Appraisal - (May-1997)

13.50 When the campaign was launched, only the above five phases were visualised. However, it was later found that a significant proportion of the projects prepared at the village level had to be examined for their technical soundness and viability and corrected before they were implemented. Realising that the District Planning Committees did not have the technical manpower or infrastructure to undertake such a thorough scrutiny of the projects, a major improvisation in the original programme of the campaign was called for. A new (sixth) phase was added for the technical and financial appraisal of the projects and plans.

13.51 This was how the concept of Voluntary Technical Corps (VTC) emerged. Retired technical experts and professionals were encouraged to enroll themselves as volunteers to appraise the projects and plans of the local bodies in order to rectify the weaknesses in technical details and financial analysis.

13.52 Expert Committees were formed at block (BLEC), municipal (MLEC), and district levels (DLEC) drawing from the VTC members and certain categories of mandatory officers. The District Planning Committees approved the Plan on the recommendations of these expert committees. The expert committees had no right whatsoever to change the priorities set by the local bodies. Their tasks were clearly confined to technical and financial appraisal of the projects and suggestions for modifications so that they may be made viable and feasible.

Training / Empowerment Programmes

13.53 Elaborate preparation had to be made to ensure that each phase was successfully completed. The most important among them was the training programme that preceded every phase. There is no parallel for the training/empowerment programme in terms of its scale i.e., the number of participants, or the diversity of issues and topics that were covered in a time bound manner.

13.54 The first phase, a three tier programme of state, district, and blocks/local level training covering more than one lakh resource persons was undertaken. The state level Key Resource

Persons (KRP) trained District Level Resource Persons (DRP) who in turn trained Local Level Resource Persons (LRP). It was also ensured that all the elected representatives would participate in the training programme at one level another in each of the rounds. As can be seen from Chart 1, the composition of the participants in the training programme changed from phase to phase, depending upon the tasks. Initially, the focus was on the resource persons and the elected representatives. At the fourth and fifth stages, the focus was entirely on the elected representatives. In a later phase, the focus was on officials and experts. In the seventh round of the training programme where issues regarding plan implementation were taken up, the officials were majority of the participants. Table 6 gives the distribution of participants at different levels in each of the seven rounds of the training that were undertaken.

13.55 The content of the training programme was also different from one round to another. Each round focussed upon the immediate task that had to be undertaken as part of the campaign. Thus grama sabhas, besides the general philosophy of campaign were the focus of the first round, the different planning techniques and development report preparation were the focus of the second round and the project preparation that of the third round and so on (see Chart II). The philosophy of decentralisation informed the introduction of every round of training. Similarly, the problems of SC-ST and gender constituted yet another constant theme.

Table 7

Participants in Training/empowerment Programme

| Phase | State | District | Block | Pan/Muni |
|-------|----------|-----------|-------------|------------|
| I | 375 (5) | 11716 (3) | | 100000 (1) |
| II | 660 (3) | 11808 (2) | | 100000 (1) |
| III | 300 (4) | 1146 (3) | 1500000 (2) | |
| IV | 3014 (3) | | 10000 (2) | |
| V | 1186 (3) | | | |
| | 304 (2) | | | |
| VI | 150 (2) | 6000 (2) | 6000 (1) | |
| | 300 (3) | | 6000 (1) | |
| VII | 2890 (2) | | 25000 (2) | |
| | 3360 (2) | | | |

* number in paranthesis represents no of days

* do not include one day conferences like 3 state level conferences of presidents and chair persons, numerous regional conferences of KRPs, VTCs, DLEC members, Block Panchayat Secretaries and District Conferences of DRPs etc.

13.56 The success of the campaign, no doubt, is to a large extent due to the effectiveness of the training programme. Whatever be the weaknesses and the problems, it is an undeniable fact that a plan did emerge from below. Though with certain amount of delay, every local body prepared its plan in a participatory and transparent manner.

13.57 A critical review of the Annual Plans prepared by the local bodies for the year 1997-98 follows:

Table 8

Participants in Training/Empowerment Programme

| Phase | State | District | Block | Pan/Mun |
|-------|-----------|------------|-----------|---------|
| I | KRP | DRP | - | LRP |
| II | KRP | DRP | - | LRP |
| III | FACULTY- | KRP | DRP | |
| | | OFFICIALS- | TASK | |
| | | | FORCE | |
| | | | ELECTED | |
| | | | REP. | |
| IV | ELECTED | | | |
| | REP.KRP | - | - | - |
| V | ELECTED | | | |
| | REP.KRP | | | |
| VI | FACULTY | VTC | VTC | - |
| VII | ELECTED | - | KRP,DRP, | - |
| | REP | | VTC, | |
| | OFFICIALS | | MEMBERS, | |
| | | | OFFICIALS | |

Table 9

Course content of Different Rounds of Training

| MODULES | I | II | III | IV | V | VI | VII |
|-----------------------------------|---|----|-----|----|---|----|-----|
| Challenges of Development | - | - | | - | - | - | |
| Decentralisation Philo | - | - | - | - | - | - | - |
| Rules and Statutes | - | - | | * | - | - | - |
| Gramasabhas | - | | | | | | |
| PRA Techniques | * | | | | | | |
| Secondary Data Development | - | - | | | | | |
| Report | - | - | | | | | |
| Projects | | * | - | - | * | * | - |
| Plan Documents | | | | - | - | * | - |
| Appraisal | - | * | * | | | | |
| Sectoral Development Perspectives | - | - | - | - | | | |
| Implementation | | | | | | | |
| Micro Dev.Models | - | - | - | | | | |
| Integration | | | | | - | | |
| SC/ST, Gender | - | - | - | * | * | - | - |

- Main Theme

- Sub Theme

* Minor Theme

Table 10
The Distribution of Grant-in-aid to Different Tiers of Local Bodies

Rs. in crores

| Local Body | General | Tribal Sub-plan Plan | Special Component Plan | Total |
|---------------------|---------|----------------------|------------------------|--------|
| Corp/Municipalities | 77.40 | 0.89 | 17.59 | 95.88 |
| District Panchayats | 65.79 | 22.869 | 35.282 | 123.94 |
| Block Panchayats | 65.79 | 7.623 | 35.282 | 108.70 |
| Grama Panchayats | 307.02 | 7.623 | 105.846 | 420.48 |
| Total | 516.00 | 39.00 | 194.00 | 749.00 |

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13.58 The draft review reports of the grama panchayats's plan for each district have already been prepared by the State Planning Board, printed and forwarded to the respective District Planning Committee for their consideration. Similar exercises with respect to the higher tiers of panchayats and municipalities are in progress. The review of the 929 grama panchayats, whose project-wise information has been consolidated at the State level, provides rich insights into the composition and direction of the local plans.

13.59 For 1997-98, the budgetary provision for grant-in-aid to the local bodies is Rs.749 crores, to be distributed among the various tiers of local bodies. The total grant-in-aid has three components, Rs.39 crores of tribal sub plans, 194 crores of special component plan for SCs and 516 crores for the general sector. Plan funds under each of the above heads are allocated between urban and rural local bodies on the basis of population ratio. Between urban local bodies again, funds are distributed on the basis of the population share of each local body. As for the rural local bodies, the total general sector allocation of Rs.438.6 crores is distributed to the Grama Panchayats, Block Panchayats and District Panchayats in the ratio of 70:15:15. Thus, as can be seen from Table 10 the provision for Grama Panchayats is Rs.307.02 crores and for Block panchayats Rs.657.6 crores and for District Panchayat is 65.79 crores. For the special component plan of Rs.176.41 crores, the share of 20 per cent each was fixed for the higher tiers. With respect of tribal sub plan it was decided that given the present social reality in the tribal areas, 60 per cent of the plan funds be allocated to the District Panchayat. The Grama Panchayat and the Block Panchayat received 20 per cent each. Table 10 given has summarised the share of grant-in-aid allocation of different tiers of local bodies.

13.60 Table 11 gives a comparative statement of the total outlay for grama panchayats and financing pattern by broad development sectors. The total proposed annual plan outlay of the 929 grama

panchayats taken up for analysis adds up to Rs.933.82 crores while the grant-in-aid from the state government for their local plans is only Rs.401.49 crores. This has been made possible by (1) integrating state and centrally sponsored schemes with the local plans (2) drawing upon the non-plan surplus from the own funds of the grama panchayats and (3) mobilising additional local resources from financial institutions and beneficiaries.

13.61 A brief clarification with regards to the concept of 'additional resource mobilisation' used here may be made. The term is used in a wider connotation than in the conventional usage in vogue with respect to state and central plan finance. For the current year, it was not envisaged that the local bodies would be directly taking loans for financing the plans and therefore the institutional finance identified in Table 8 could only be loans that would be made available to the beneficiaries as part of the plan projects. Similarly, the 'beneficiary contribution' consists of the amount that would have to be paid into the plan account of the local body by the beneficiaries and the complimentary additional net investment that the beneficiary would have to make to avail of the benefits of the scheme.

13.62 Even if the additional resource mobilisation is defined in the conventional narrow sense excluding entire beneficiary contribution and the institutional finance made available to the beneficiaries, the additional resource mobilisation effort made by the local bodies is remarkable. The non-plan surplus from the own funds, voluntary labour and donations alone together came to 10.41 percent of the total outlay or around a quarter of the grant-in-aid given by the state government. It is indeed a significant pointer to the untapped potential of local resource mobilisation. Necessary rules empowering the local bodies to raise a part of their plan resources from financial institutions would have to be framed. A major hitch for integration of the institutional credit and local level planning has been the less than helpful attitude adopted by the commercial banks and the failure of the higher level to obtain the banking sector to the changed role of the local bodies in develop-

ment, as envisaged by 73rd and 74th amendments to the constitutions.

13.63 The expected contribution from the state sponsored and centrally sponsored schemes to the plans of the grama panchayats is 3.18 and 2.41 percent respectively. There is an obvious underestimation of these sources of plan finance. As we have already noted the amount set apart from the state sponsored schemes in the state budget is around Rs.250 crores as against grant-in-aid of Rs.749 crores. Therefore on an average the local bodies could reasonably expect an amount equivalent to a third of their grant-in-aid. The fact, however, that grama panchayats have placed expected contribution from the state sponsored schemes at only 3.18 per cent of their total plan outlay, reflects lack of clarity as regards the sponsored schemes and the probable share that a local body could

expect therefrom has been at the root of the failure to integrate them into the local plans.

13.64 The own funds of the grama panchayats are a significant source of plan finance, contributing to 6.04 percent of the outlay. There was little synchronisation of the normal budgeting process of the local bodies and the preparation of their annual plans. Reforms of the budgetary procedures of the local bodies so that all new development works are mandatorily made a part of the annual plan assumes importance in this context. During the current year, considerable new developmental work continues to be carried out by the local bodies outside the plan as either sponsored schemes or their own non plan schemes. This situation raises the scope for the multiple systems of implementation and tends to undermine the transparent and participative system that is sought to be ushered in by the plan decentralisation.

Table 11

Financing Pattern of the Annual Plans (1997-98) of 929 Grama Panchayats

| Sect | Total Outlay | Grant-in-aid | Own Funds | State Spon. | Centrl. Spo. | Co-operative | Other Fin.In. | Volun. Contr. | Benefi. Contri. | Other |
|-----------------|----------------------|---------------------|--------------------|-------------------|-------------------|-------------------|--------------------|-------------------|---------------------|-------------------|
| All Sectors | 93381.66 (100.00) | 40149.32 (42.99) | 5639.55 (6.04) | 2973.38 (3.18) | 2253.55 (2.41) | 1711.16 (1.83) | 8195.81 (8.78) | 4078.94 (4.37) | 25280.06 (27.07) | 2236.06 (2.39) |
| Productive | 46635.64 (100.00) | 15154.40 (32.50) | 793.72 (1.70) | 1250.51 (2.68) | 423.37 (0.91) | 1420.65 (3.05) | 6039.76 (12.95) | 935.57 (2.01) | 19176.53 (41.12) | 899.46 (1.93) |
| Services | 31655.68 (100.00) | 15816.20 (49.96) | 2399.60 (7.58) | 1343.01 (4.23) | 1369.01 (4.32) | 285.99 (0.90) | 1962.38 (6.20) | 1945.76 (6.15) | 5164.30 (16.31) | 1051.58 (3.32) |
| Infrastructural | 15090.34 (100.00) | 9178.73 (60.83) | 2446.23 (16.21) | 379.87 (2.52) | 460.87 (3.05) | 4.53 (0.03) | 193.37 (1.28) | 1197.61 (7.94) | 939.22 (6.22) | 282.02 (1.89) |
| SCP | 15039.48 (100.00) | 9941.14 (66.10) | 367.78 (2.45) | 391.15 (2.60) | 294.42 (1.96) | 110.90 (0.74) | 699.93 (4.65) | 436.61 (2.90) | 2478.05 (16.48) | 289.79 (1.93) |
| TSP | 1216.10 (100.00) | 770.68 (63.37) | 51.08 (4.20) | 29.79 (2.54) | 72.23 (5.94) | 15.53 (1.28) | 32.20 (2.65) | 42.68 (3.51) | 191.54 (15.75) | 27.79 (2.29) |
| Women Project | 6797.79 (100.00) | 1997.15 (29.38) | 109.56 (1.61) | 168.43 (2.48) | 80.34 (1.18) | 254.22 (3.74) | 1262.99 (18.58) | 133.84 (1.97) | 2522.80 (37.11) | 204.29 (3.01) |

13.64 The relatively low contribution by the financial institutions to the local plans has already been noted. It is of utmost importance that the credit plans of the banks are integrated into the plans of the local bodies, an objective which can be realistically achieved if the bank personnel are also directly involved in the planning process. In this matter, initiation as well guidance, will have to come from NABARD and RBI.

13.65 It is a matter of great surprise that the expected contribution of the cooperative sector to the financing of local plans is only a fifth of the share expected of the commercial banks. The cooperative

credit system plays much larger role than the commercial banks in financing the agricultural and small scale production sectors in the state. Steps have already been initiated to ensure greater participation of the cooperative sector in the preparation and implementation the second year's annual plan.

13.66 The beneficiary contribution is a component of the plan finance that is prone to some exaggeration in order either to camouflage the rate of subsidy or to artificially inflate the plan outlay. It was repeatedly explained that the only complimentary additional investment undertaken by the beneficiary must be included under the source. The plan

appraisal revealed many cases of deviation from the norms laid. And, in most cases, the revisions in the plan outlay have been carried out.

13.67 A point that arose in this context is the extent of subsidy given to the beneficiaries from the grant-in-aid. There was a noticeable tendency to raise the rate or the amount of subsidy and therefore a ceiling had to be imposed. Instruction was issued that the subsidy by a local body on any item, in any sector/scheme, should not exceed the maximum similar subsidy given by the state government.

13.68 A comparison of the financing of projects in the three broad sectors i.e. productive sec-

tor, service sector, infrastructure sector presents interesting contrasts. The dependence on grant-in-aid is the highest in the infrastructural sector and the lowest in the productive sector. A major contribution to this phenomenon is the share of beneficiary contribution which turns out to be the highest in the productive sector and the least in the infrastructural sectors. Expectations of resource mobilisation from financial institutions are relatively higher in the productive sectors. As a result, the grant-in-aid component constituted only 33% of the outlay in the productive sector while it comes to 61% of the outlay in the infrastructure sectors.

Table 12

| Guide Lines on Sectoral Allocations Indicated to the Local Bodies | | | |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| | Sector | Rural Local Bodies | Urban Local Bodies |
| Productive Sector | Agriculture, Animal Husbandry, Fisheries, Minor Irrigation, Small Scale Industries etc. | 40-50 | 20-30 |
| | Social Sectors | 30-40 | 40-50 |
| Infrastructure Sectors | Education, Health, Sanitation Drinking Water Supply, Sicutak Welfare, Housing etc. Slum improvement work | 10-30 | 10-35 |
| | Public Works, Energy, etc. | | |

Table 13

| Broad Sectoral Distribution of Grama Panchayat Plans (1997-98) | | | | | | | | | |
|----------------------------------------------------------------|-------------------------------|-----------------------|----------------|---------------------------------------|-----------------------|----------------|-----------------------------------------------------------|-----------------------|----------------|
| (percentage share) | | | | | | | | | |
| District | General Sector - grant in aid | | | General Sector + SCP+TSP grant-in-aid | | | Total Outlay (grant-in-aid+other sources of plan finance) | | |
| | Productive Sector | Infrastructure Sector | Service Sector | Productive Sector | Infrastructure Sector | Service Sector | Productive Sector | Infrastructure Sector | Service Sector |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| Thiruvananthapuram | 45.33 | 21.65 | 33.02 | 38.18 | 23.58 | 38.24 | 53.62 | 16.08 | 30.30 |
| Kollam | 44.21 | 21.51 | 34.28 | 34.71 | 21.12 | 44.17 | 51.73 | 15.06 | 33.21 |
| Puthuacotta | 39.22 | 26.52 | 34.26 | 31.90 | 26.83 | 41.57 | 41.76 | 21.63 | 36.61 |
| Alappuzha | 44.26 | 25.67 | 30.06 | 39.05 | 22.60 | 38.35 | 52.20 | 14.47 | 33.33 |

Sectoral Investment Patterns

13.69 As to the sectoral investment pattern of the local plans, as already stated in order to ensure the overall thrust of the plan investment in the state, a number of broad guidelines were given regarding sectoral allocation in the plans of the local bodies. It must be emphasised that these guidelines do not impinge in any serious manner on the autonomy of local level planning. Certain broad bands of minimum and maximum percentage share of investments were indicated for the three broad development sectors namely productive, service, infrastructure sectors (see Table 12). The guidelines were applicable only to the grant-in-aid of the state government and not to the investment proposed to be financed from other sources.

13.70 In the last three columns, the sectoral distribution of the total plan outlay (i.e. grant-in-aid and other sources of plan finance) is presented. When the total outlay is considered the share of the productive sector substantially increases and that of the infrastructural sector shrinks. As we have already noted, the dependence on the grant-in-aid of the infrastructural projects is relatively higher than projects in other sectors. At the same time, additional resource mobilisation is relatively higher in the productive sector projects.

13.71 The broad sectoral distribution of the grama panchayat's plan outlay is given in Table 13. In columns 2 to 4 is given the sectoral distribution of the grant-in-aid component of the general sector projects. For the state as a whole, 43.59% of lo-

Table 14

| Distribution of total State Assistance & Total Outlay of the Annual Plans (1997-98) of 929 Grama Panchayats (in percentage) | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|---------------------|
| Production Sector | No. of Projects | State Assistance | Total Outlay |
| (1) | (2) | (3) | (4) |
| Paddy | 1032 | 3.55 | 5.57 |
| Other Crops | 4399 | 8.22 | 15.09 |
| Soil & Water Conservation | 965 | 2.31 | 1.91 |
| Animal Husbandry | 4440 | 7.42 | 9.80 |
| Diary Development | 962 | 1.74 | 2.70 |
| Fisheries | 621 | 0.94 | 1.46 |
| Forestry | 70 | 0.04 | 0.05 |
| Small-scale indus. | 1232 | 2.50 | 3.59 |
| Handicraft | 49 | 0.05 | 0.06 |
| Handloom | 24 | 0.04 | 0.06 |
| Coir | 68 | 0.18 | 0.26 |
| Khadi | 48 | 0.06 | 0.10 |
| Sericulture | 17 | 0.01 | 0.05 |
| Others | 161 | 0.30 | 0.40 |
| Minor Irrigation | 2512 | 7.23 | 4.98 |
| Flood control | 212 | 0.52 | 0.32 |
| Other Agri.Dev. | 1529 | 2.36 | 2.46 |

| | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Kottayam | 43.76 | 24.72 | 31.52 | 38.58 | 23.03 | 38.39 | 47.56 | 17.69 | 34.75 |
| Idukki | 42.39 | 23.88 | 33.73 | 38.76 | 22.62 | 38.62 | 48.85 | 15.94 | 35.21 |
| Ernakulam | 44.77 | 24.63 | 30.61 | 39.08 | 23.99 | 36.93 | 49.92 | 17.42 | 32.67 |
| Thiruv | 46.87 | 19.58 | 33.56 | 41.52 | 18.92 | 39.56 | 52.55 | 13.13 | 34.33 |
| Palakkad | 45.83 | 23.76 | 30.41 | 38.21 | 24.52 | 37.27 | 48.69 | 16.49 | 34.82 |
| Malappuram | 41.79 | 24.26 | 33.58 | 36.61 | 22.91 | 40.48 | 46.33 | 17.48 | 36.19 |
| Kozhikode | 41.91 | 23.55 | 34.54 | 37.86 | 22.09 | 40.04 | 53.40 | 14.53 | 32.08 |
| Waynad | 42.13 | 22.40 | 35.47 | 35.88 | 21.54 | 42.58 | 41.93 | 19.01 | 39.05 |
| Kannur | 42.55 | 24.61 | 32.84 | 39.02 | 23.75 | 37.23 | 53.12 | 14.65 | 32.23 |
| Kasaragod | 39.63 | 24.08 | 36.29 | 33.21 | 27.10 | 39.69 | 44.08 | 21.55 | 34.37 |
| Total | 43.59 | 23.41 | 33.88 | 37.75 | 22.86 | 39.39 | 49.94 | 16.16 | 33.96 |

cal plans will be invested in the productive sector. But for minor deviation in Kasaragod and Pathanamthitta Districts, the grama panchayats on the whole have sought to meet the minimum investment requirements for the productive sector. In no district has the infrastructural sector exceeded the maximum limit imposed. For the state as a whole the outlay of the infrastructural sector is only 23% of the plan outlay.

13.72 In columns 4 to 7 the inter-sectoral distribution of the grant-in-aid component of the total plan i.e. general sector, SCP and TSP is given. Now the share of productive sector is only 37.75. In Kollam district it is less than 32%. There is a corresponding increase in the share of service sector. For the state as a whole the share of the service sector the total grant-in-aid is 39.3 per cent. This is because the sectoral guidelines were relaxed in the case of SCP and TSP. It was felt that given the socio-economic background of SC-ST families, it may not be possible to prepare viable productive sector projects specifically for members of these communities. Also, welfare aspects may call for higher prioritisation.

13.73 In Table 14 is presented the sub-sectoral distribution in the number of projects and the share of each sub-sector, the grant-in-aid from the state and total outlay. In the productive sector, crop husbandry has the highest share both in terms of number of projects as well as the share in the grant-in-aid and total outlay. Among the crops, greater emphasis is given for garden crops rather than paddy. Surprisingly, the allocation for animal husbandry projects comes to a close second. The minor irrigation has also be given its due importance. In contrast, industry has relatively neglected. The share of industrial sectoral in the State Plan comes to only 3.04 percentage. The inherent difficulties in formulating viable industrial projects seems to have been the major factor responsible for the relative neglect

of this vital sector, although the indifference and difficulties of the local officials of the Industries Department may also have to share part at least of the blame.

13.74 The service sector has been given came weightage as the productive sector both in terms of number of projects and plan allocation. For the sake of convenience the rural development schemes have been included in the service sector. The very low share of the allocation of such schemes is indicative of the failure to integrate the sponsored programmes in the local plans, a point that has already been noted.

13.75 The higher priority has been given for the housing sector with 13.35 per cent of the grant-in-aid earmarked for the projects of this sector. The projects include apart from new housing programmes, projects for repair and improvement of existing houses and purchase of land for the weaker sections.

13.76 The share of drinking water projects comes second in rank in the service sector with 8.27 per cent of the grant-in-aid. On a rough estimate all the tiers of local bodies have earmarked around Rs.100 crores of total outlay for this vital sector. Nearly 60 per cent of this allocation is for piped drinking water projects most of which are linked to the existing schemes. Rest of the outlay is on a variety of schemes such as renovation of ponds and water conservancy measures, digging and repairing of wells and tube wells etc.

13.77 The allocation of public health is only 3.12 per cent. However it is remarkable that substantial provision is made for inter-linked health sectors such as sanitation, nutrition, drinking water and so on. If these are taken together one can see that 15 per cent of the allocation is for health and related sectors. If these programmes can be integrated a perceptible impact can be made on the health status of the rural areas.

| | | | |
|------------------------------|------|-------|-------|
| Corporation | 237 | 0.27 | 1.08 |
| Primary Education | 2834 | 2.75 | 2.29 |
| Technical Edn. | 44 | 0.08 | 0.07 |
| High School | 316 | 0.24 | 0.19 |
| Youth Services | 170 | 0.14 | 0.17 |
| Art & Culture | 1303 | 1.53 | 1.09 |
| Public Health | 1799 | 3.12 | 3.02 |
| Housing | 2488 | 13.35 | 11.01 |
| Drinking Water | 3646 | 8.27 | 5.74 |
| Sanitation | 1323 | 3.77 | 3.46 |
| Employment & Labour | | | |
| Welfare | 160 | 0.25 | 0.20 |
| Women & Children | | | |
| Welfare | 1226 | 1.652 | 1.59 |
| Nutrition | 89 | 0.10 | 0.08 |
| Social welfare | 911 | 1.19 | 0.98 |
| Integrated Rural | | | |
| Development | 43 | 0.05 | 0.1 |
| Training of rural youth | 138 | 0.14 | 0.13 |
| Dev. of women & child | 216 | 0.21 | 0.33 |
| supply of tool kits | 62 | 0.07 | 0.05 |
| Waste land dev. | 10 | 0.02 | 0.02 |
| Jawahar Rozgar Yojana | 59 | 0.02 | 0.15 |
| Employment | | | |
| Assurance Scheme | 18 | 0.02 | 0.07 |
| Other employment | | | |
| development | 128 | 0.20 | 0.17 |
| Social employment | | | |
| programme | 65 | 0.18 | 0.25 |
| Million wells programme | 16 | 0.01 | 0.02 |
| Others | 20 | 0.02 | 0.03 |
| Tourism | 17 | 0.02 | 0.04 |
| Public Distribution | 18 | 0.03 | 0.18 |
| Other Public Distribution | 22 | 0.03 | 0.02 |
| Housing Services | 358 | 1.17 | 1.44 |
| Other General Services | 644 | 0.91 | 1.04 |
| Production | 46 | 0.08 | 0.05 |
| Power Distribution | 2130 | 2.60 | 1.79 |
| Development of non- | | | |
| conventional energy | 340 | 0.24 | 0.40 |
| Integrated Rural Energy Dev. | 327 | 0.26 | 0.40 |
| Roads, Bridges | 8256 | 19.46 | 13.35 |
| Inland Water Transport | 32 | 0.07 | 0.06 |
| Other Transportation | 118 | 0.14 | 0.13 |

13.78 Around 3 per cent of the grant-in-aid is set apart for education. A weakness is the failure to integrate the vertical programmes in the sector such as district primary education programmes with the local plans. It is gratifying to note however that nearly all the grama panchayats have made provisions for the rural libraries.

13.79 More than 80 per cent for the allocation of the infrastructure sector is for roads and bridges. Still, it could be a matter of surprise for many that only 19.46 per cent of the state grant-in-aid is earmarked for road and bridges though the local bodies could have set apart as much as 30 per cent of the grant-in-aid for this purpose. The projects in the energy sector are mostly for rural electrification. Adequate consideration has not been given to the non-conventional energy sector projects.

13.80 The above analysis has been confined to the grama panchayat plans. The analysis of the plans of the higher tiers has yet to be made. Yet a general remark on a serious limitation of the current years plan may be made here. There has not been sufficient coordination or integration of the plans of the different tiers resulting in some cases of serious duplication and critical gaps. This has been particularly so in the case of agricultural and animal husbandry projects. It may also be pointed out that sufficient consideration was not given to the forward and backward linkages in the preparation of the projects resulting in serious problems at the time of implementation.

Special Component Plan & Tribal Sub Plan

13.81 A remarkable feature of the Special Component Plan and Tribal Sub Plan for the year 1997-98 is devolution of as much as 67 per cent of their plan funds to the local bodies. Apart from this grant-in-aid, a large number of schemes have also been devolved to the local bodies. Such a radical departure from the past had aroused apprehensions in certain quarters. However a detailed review of the Special Component Plan and the Tribal Sub Plan organised by the Minister for Scheduled Caste and Scheduled Tribe development, spread over a month, brought to light certain remarkable features of the Special Component Plans and Tribal Sub Plans prepared by the local bodies.

13.82 The first point to be noted in this context is that the notional flow system was given up in toto and funds for SCP/TSP was pooled together in proportion to the population share of the weaker sections. This resulted in a significant step up of the real funds available to the Special Component Plan and Tribal Sub Plan.

13.83 Fears of local bodies illegally diverting a Special Component Plan and Tribal Sub Plan grant-in-aid for general sector projects have been found to be baseless. Instead, it was seen that many of the local bodies made provisions from their own funds for SCP and TSP and even diverted a portion of the funds, even though small for SCP and TSP. The state grant-in-aid for SCP of the 929 grama panchayats was only Rs.85.55 crores. But it was seen that the grant-in-aid component of their SCP projects totalled Rs.99.41 crores. Similarly the grant-in-aid for TSP of these panchayats was only Rs.6.38 crores. But the grant-in-aid provision in the TSP projects prepared by them totalled Rs.7.7 crores. It must be admitted that there were some exceptionals to this general trends and stringent measures have been taken to ensure that such deviations are rectified.

13.84 Additional local resources have been mobilised for SCP/TSP projects also. But as can be seen from the data presented in table 11 the financing pattern of the SCP/TSP projects is significantly different from the general sector projects. Given the low asset and income base of these weaker sections, it was only right that the local bodies provided much higher share of the state grant-in-aid in the formulation of SCP/TSP projects.

13.85 There is also significant difference in the sectoral priorities of SCP/TSP from the general sector plan. As we have seen above much higher weightage is given for the service sector. 30 per cent of the SCP and 29 per cent of the TSP have been set apart for housing. Next in importance comes sanitation claiming 16 per cent of the SCP and 17 per cent from the TSP. In the productive sector animal husbandry programmes are given much higher priority than crop husbandry. No doubt there is lot of scope for improvement of the quality of projects and need for giving greater emphasis on projects that can lead to sustainable improvement of the economic status of the weaker sections.

13.86 A general fear that has often been expressed in public forums is the danger of diversion of SCP/TSP funds for infrastructural projects of common benefit to all. The data show that only 22 per cent of the grant-in-aid was set apart for the infrastructure sector in SCP and TSP.

13.87 The democratic decentralisation of SCP/TSP creates opportunity for the weaker sections to directly participate in planning for their own well being. If these opportunities are properly utilised this could very well be a turning point to the development of the weaker sections in our state.

Women Component Plan

13.88 Gender issues have been a special emphasis in the campaign. Firstly, special instructions were given, as part of the campaign to ensure greater participation of women. Secondly, gender and development was an important theme in the training programmes. Thirdly, in the cost benefit assessment of the projects a gender impact statement was made mandatory. Fourthly, the local bodies were advised to set apart 10 per cent of the plan funds for directly women targeting projects.

13.89 Almost all the local bodies did prepare special projects for women. But in no district the target of 10 per cent was met. On an average 6.68 per cent of the state grant-in-aid was set apart for special programmes for women. A study of these projects also revealed that most of them were in the traditional mould of women development projects such as kitchen gardening, backyard poultry, garment making etc. There is also significant scope for the overall improvement of women participation in the planning process. On the basis of a systematic review, special measures have already been initiated to ensure greater participation of women in the preparation of second annual plan, formulation of innovative programmes and imparting of greater gender sensitiveness to the local plans in general.

TOWARDS STABILISATION OF LOCAL SELF-GOVERNMENT

13.90 1997-98 was the first year of the local level planning. People were learning by doing and valuable lessons have been learned on the basis of the first year's experience. Preparation of the second year's annual plan has already been started, while concurrently implementing the first year's plan. A number of steps were taken to ensure that the plan implementation is also a participatory and transparent process without at the same time sacrificing efficiency. Most important among them are the new Beneficiary Selection Rules and the new work rules. The former enjoins that all beneficiaries must be selected by the gramasabhas after an objective and open assessment of the applicants. This is an important step to undermine the corrupt practices of local political patronage in the distribution of development benefits. The new work rules have removed all the major hurdles for genuine beneficiary committees to effectively function without being waived down by bureaucratic procedures.

13.91 Being the first year, serious delays and problems in implementation are only to be expected. The parliamentary elections have also added to the problems. More time would have to be given to the local bodies to complete the implementation of the first year's annual plan. Decentralisation has to be

viewed as a continuing process rather than a one time effort.

13.92 An immediate task before the government would be to re-deploy staff from various departments to the local bodies. Several functions and powers and the resources needed for exercising them have been transferred to the LSGIs. Since this work was done at some level of government earlier on, the staff who performed it could be identified and transferred to the LSGIs. Particular emphasis would be given to provide technical staff by pooling the services of engineers who can be spared in the Public Works and Irrigation Departments.

13.93 It is not enough to transfer the staff to the LSGIs. They are to be suitably conditioned or oriented to perform their task in consonance with the spirit of participatory development. Suitable retraining would be required for these staff. The post of Secretary to a local body is a very critical and there would need for special attention to identifying the most suitable personnel for this post. Most of the important rules are in place and procedures have been finalised for the essential activities, thanks to the work of the S.B.Sen Committee. During this year the focus would be on evolving a simple, rational but exhaustive budgeting and accounting procedure, preparing manuals for institutions transferred to LSGIs particularly hospitals and educational institutions and on delegation of more financial powers so that the need to come to government would be minimised. Also modernisation of office including use of computers would need to be given a big push, so that monitoring from district and state level is concurrent and comprehensive.

13.94 The audit system of local bodies needs to be revamped and strengthened. Regular on-line corrective audit through the Performance Audit mechanism would be streamlined in decentralised set up. In addition to this formal audit mechanism, it is the social audit that would be critical through absolute transparency in the selection of beneficiaries and in the implementation of public works it is expected to check the tendency to misuse of funds significant. People would have easy access to all kinds of information on expenditure of public funds and through this Right to Information can appropriately check any corrupt or nepotist practice. In the case of public works a technical audit group would be set up to verify the quality of works.

13.95 Grama Sabhas, Ward Sabhas and Ward Committees are critical institutions in the decentralisation process. They are the most effective vehicles of people's participation in governance. These institutions would be strengthened considerably by giving specific powers and responsibilities to them. In the case of tribals, care would be taken to ensure that exclusive Grama Sabhas for the tribal

settlement would be held. By organising people, particularly the poor into Neighbourhood Groups as part of the Kudumbashree Programme. Grams Sabhas and Ward Sabhas are expected to get further impetus.

13.96 In this context it would not be appropriate for government to exercise too much of direct control over the LSGIs. Independent system on the lines of Ombudsman and Appellate Tribunals would have to emerge to take care of citizen grievances against the LSGIs. The first year's experience in decentralised planing has showed that the division of responsibilities among the various levels of LSGIs has not been very clear. There is need to alter the schedules listing the powers and functions, so that the responsibilities at each level are demarcated more clearly.

13.97 The Committee on Decentralisation of Powers (popularly known as the Sen Committee after its Late Chairperson, Dr.Satya Brata Sen who passed away immediately after the Committee submitted its interim report) has finalised its recommendations. The Committee has attempted to strike a balance between the ideals of decentralisation and the requirements of day to day govemance and to make the local bodies into a dynamic force towards taking the State as well as the country towards building genuine and sustainable institutions of local self government infused with principles capable of sustainable progress towards genuine autonomy.

13.98 The Committee on Decentralisation of Powers has already given two reports to the Government - an interim report in August 1996 and a part report on performance audit and transfer of files and papers to LSGIs in April 1997. The final report structured in four volumes has been submitted to government in December, 1997. The government has accepted the interim report with certain modifications and the final report is being processed. Implementation of the recommendations of the Sen Committee will help to institutionalise the new participatory and transparent system of governance that is being fashioned by the People's Campaign for Ninth Plan.

13.99 If the process that has already been successfully initiated is allowed to continue and strengthen it would no doubt have very significant impact not only on the economy but also in the society of Kerala. With local level mobilisation of resources and people and support from the state government it should be possible for the state of Kerala to enter the 21st century providing housing to all, potable drinking water to all households within reasonable distance, high level of sanitary conditions through out the state, eradicating many of the visible indicators of poverty, achieving perceptible improvement in production the agriculture sector particularly in vegetable cultivation and a significant step up of quality of our health and educational infrastructures.

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Chapter 12. Institutional and Bank Finance

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Appendix - 2.1

Sectoral Distribution of Net Domestic Product at Factor Cost – INDIA

(Rs. in Crores)

| Industry of Origin | At current prices | | | At 1980-81 prices | |
|-------------------------------------------------------------|-------------------|----------|----------|-------------------|----------|
| | 1980-81 | 1995-96@ | 1996-97* | 1995-96@ | 1996-97* |
| i. Agriculture, forestry & fishing | | 259088 | 289814 | 67264 | 72593 |
| 1.1 Agriculture | 44091 | 239582 | 268729 | 62665 | 67871 |
| 1.2 Forestry & logging | 40056 | 10888 | 10861 | 2843 | 2846 |
| 1.3 Fishing | 3229 | 8618 | 10224 | 1756 | 1876 |
| 2. Mining & Quarrying | 806 | 13288 | 12548 | 3031 | 2968 |
| 3. Manufacturing | 1474 | 170117 | 189788 | 53760 | 57425 |
| 3.1 Registered | 18698 | 105078 | 118837 | 33384 | 35874 |
| 3.2 Unregistered | 10050 | 65039 | 70951 | 20376 | 21551 |
| 4. Electricity, gas & water supply | 8648 | 14398 | 17508 | 3421 | 3597 |
| 5. Construction | 912 | 55929 | 65826 | 11416 | 12006 |
| 6. Trade, hotels & restaurants | 5771 | 139084 | 163368 | 38843 | 42091 |
| 7. Transport, storage & communication | 14322 | 57434 | 68305 | 9934 | 10933 |
| 7.1 Railways | 3724 | 9133 | 9459 | 1058 | 1091 |
| 7.2 Transport by other means | 559 | 37104 | 45950 | 6884 | 7485 |
| 7.3 Storage | 2438 | 751 | 839 | 184 | 188 |
| 7.4 Communication | 114 | 10446 | 12057 | 1808 | 2169 |
| 8. Financing, insurance, real estate & business services | 813 | 81237 | 92950 | 30076 | 32686 |
| 8.1 Banking & insurance | 9264 | 62430 | 72124 | 19732 | 21961 |
| 8.2 Real estate, ownership of dwellings & business services | 3344 | 18807 | 20826 | 10344 | 10725 |
| 9. Community, social & personal services | 5920 | 104125 | 121926 | 27359 | 29128 |
| 9.1 Public administration & defence | 12084 | 46915 | 54777 | 12191 | 13027 |
| 9.2 Other services | 5307 | 57210 | 67149 | 15168 | 16101 |
| 10. Total net domestic product at factor cost | 6777 | 894700 | 1022033 | 245104 | 283427 |
| 110340 | | | | | |

Source: Central Statistical Organisation

@ Provisional estimate

*nick estimate

Appendix - 2.2

National Income and State Income

| Item | Unit | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) | (24) | (25) | (26) | (27) | (28) | (29) | (30) | (31) | | | | | | | | | | | | | | | | | | | |
| NATIONAL INCOME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rs. crores | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At Current Prices | | 110685 | 416495 | 16.4 | 477868 | 14.7 | 618400 | 13.9 | 731900 | 18.4 | 858340 | 17.3 | 881216 | 16.0 | 1008188 | 14.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At constant prices | | 110685 | 185683 | 4.6 | 185503 | (-0.1) | 220100 | 5.0 | 238900 | 8.5 | 256095 | 7.2 | 239957 | 7.4 | 258465 | 7.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATE INCOME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At constant prices | | 3823 | 12173 | 13.1 | 15102 | 24.1 | 17175 | 13.7 | 19688 | 14.6 | 23236 | 18.02 | 25802 | 11.04 | 28479 | 10.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At constant prices | | 3823 | 5262 | 5.4 | 5385 | 2.0 | 5752 | 7.2 | 6381 | 10.9 | 6634 | 3.96 | 7018 | 5.79 | 7422 | 5.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PERCAPITA NATIONAL INCOME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At current prices | Rupees | 1630 | 4964 | 10.0 | 5583 | 12.5 | 6249 | 11.9 | 7060 | 13.0 | 8282 | 17.3 | 9578 | 12.5 | 10771 | 12.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At constant prices | " | 1630 | 2213 | 2.5 | 2167 | (-2.1) | 2216 | 2.3 | 2292 | 3.4 | 249 | 6.8 | 2608 | 5.1 | 2761 | 5.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PERCAPITA STATE INCOME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At current prices | " | 1508 | 4200 | 11.7 | 5140 | 2.4 | 5768 | 12.2 | 6574 | 13.1 | 7597 | 16.45 | 8324 | 9.57 | 9066 | 8.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| At current prices | " | 1508 | 1815 | 4.1 | 1826 | 0.6 | 1932 | 5.8 | 2114 | 9.4 | 2169 | 2.6 | 2264 | 4.38 | 2363 | 4.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Sources : (1) Economic Survey 1996-97
 (2) Central Statistical Organisation
 (3) Department of Economic & Statistics
 P - Provisional
 Q - Quick Estimate

Appendix - 2.3

Sectoral Share of Net Domestic Product Kerala

| Sector | At Current Prices | | | | | | | | | | | | | | | At Current Prices (1980-81) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | | | | | | | | | | | | | | | | | | | | | | | |
| Primary | 39.23 | 32.91 | 39.34 | 36.03 | 35.07 | 36.34 | 37.59 | 34.53 | 39.23 | 35.99 | 36.43 | 34.17 | 32.08 | 33.39 | 33.72 | 31.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Secondary | 24.37 | 26.35 | 24.76 | 26.13 | 25.72 | 23.64 | 23.05 | 23.23 | 24.37 | 23.92 | 23.83 | 24.59 | 25.64 | 24.18 | 24.11 | 24.76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tertiary | 36.40 | 40.74 | 35.90 | 37.84 | 39.21 | 40.02 | 39.36 | 42.24 | 36.40 | 40.09 | 39.74 | 41.24 | 42.28 | 42.43 | 42.17 | 43.88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

District Wise Per capita Income at Constant and Current Prices 1980-81 to 1996-97

| District | At Constant Prices | | | | | | | | | | | | | | | | | At current prices | | | | | | | | | | | | | | | | |
|--------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--|
| | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | | | | | | | | | | |
| Thiruvananthapuram | 1484 (6) | 1842 (7) | 1786 (6) | 1955 (4) | 2173 (4) | 2183 (5) | 2274 (5) | 2369 (5) | 1484 (6) | 4220 (8) | 4925 (8) | 5708 (6) | 6556 (6) | 7511 (8) | 8198 (8) | 8909 (8) | 1484 (6) | 1842 (7) | 1786 (6) | 1955 (4) | 2173 (4) | 2183 (5) | 2274 (5) | 2369 (5) | 1484 (6) | 4220 (8) | 4925 (8) | 5708 (6) | 6556 (6) | 7511 (8) | 8198 (8) | 8909 (8) | | |
| Kollam | 1536 (5) | 1866 (6) | 1734 (11) | 1874 (10) | 2020 (10) | 2084 (9) | 2176 (9) | 2270 (8) | 1536 (5) | 4350 (5) | 4889 (10) | 5740 (5) | 6430 (8) | 7535 (7) | 8238 (7) | 8954 (7) | 1536 (5) | 1866 (6) | 1734 (11) | 1874 (10) | 2020 (10) | 2084 (9) | 2176 (9) | 2270 (8) | 1536 (5) | 4350 (5) | 4889 (10) | 5740 (5) | 6430 (8) | 7535 (7) | 8238 (7) | 8954 (7) | | |
| Pathanamthitta | -- | 1981 (4) | 1832 (5) | 1919 (7) | 2097 (7) | 2255 (4) | 2357 (4) | 2463 (4) | -- | 4408 (4) | 5056 (5) | 5590 (9) | 6444 (7) | 7948 (4) | 8762 (4) | 9595 (4) | -- | 1981 (4) | 1832 (5) | 1919 (7) | 2097 (7) | 2255 (4) | 2357 (4) | 2463 (4) | -- | 4408 (4) | 5056 (5) | 5590 (9) | 6444 (7) | 7948 (4) | 8762 (4) | 9595 (4) | | |
| Aleppuzha | 1311 (9) | 1815 (9) | 1684 (12) | 1758 (13) | 1866 (12) | 1926 (11) | 2007 (12) | 2088 (12) | 1311 (9) | 4268 (7) | 4865 (11) | 5255 (13) | 5736 (12) | 6852 (12) | 7461 (11) | 8081 (12) | 1311 (9) | 1815 (9) | 1684 (12) | 1758 (13) | 1866 (12) | 1926 (11) | 2007 (12) | 2088 (12) | 1311 (9) | 4268 (7) | 4865 (11) | 5255 (13) | 5736 (12) | 6852 (12) | 7461 (11) | 8081 (12) | | |
| Kottayam | 1452 (8) | 1824 (8) | 1772 (7) | 1897 (8) | 2040 (8) | 2179 (5) | 2272 (6) | 2369 (5) | 1452 (8) | 4038 (9) | 4945 (7) | 5473 (11) | 6155 (10) | 7548 (6) | 8322 (5) | 9105 (5) | 1452 (8) | 1824 (8) | 1772 (7) | 1897 (8) | 2040 (8) | 2179 (5) | 2272 (6) | 2369 (5) | 1452 (8) | 4038 (9) | 4945 (7) | 5473 (11) | 6155 (10) | 7548 (6) | 8322 (5) | 9105 (5) | | |
| Idukki | 1995 (2) | 2095 (2) | 2116 (2) | 2101 (2) | 2590 (3) | 2711 (3) | 2853 (3) | 3002 (3) | 1995 (2) | 4612 (2) | 6073 (2) | 6433 (2) | 8049 (3) | 9805 (3) | 10930 (3) | 12059 (3) | 1995 (2) | 2095 (2) | 2116 (2) | 2101 (2) | 2590 (3) | 2711 (3) | 2853 (3) | 3002 (3) | 1995 (2) | 4612 (2) | 6073 (2) | 6433 (2) | 8049 (3) | 9805 (3) | 10930 (3) | 12059 (3) | | |
| Ernakulam | 2017 (1) | 2779 (1) | 2768 (1) | 2967 (1) | 3289 (1) | 3330 (1) | 3471 (1) | 3617 (1) | 2017 (1) | 6502 (1) | 8010 (1) | 8857 (1) | 10159 (1) | 11545 (1) | 12572 (1) | 13637 (1) | 2017 (1) | 2779 (1) | 2768 (1) | 2967 (1) | 3289 (1) | 3330 (1) | 3471 (1) | 3617 (1) | 2017 (1) | 6502 (1) | 8010 (1) | 8857 (1) | 10159 (1) | 11545 (1) | 12572 (1) | 13637 (1) | | |
| Thrissur | 1462 (7) | 1895 (5) | 1889 (4) | 1996 (3) | 2150 (5) | 2175 (7) | 2269 (7) | 2366 (6) | 1462 (7) | 4422 (3) | 5277 (4) | 5921 (4) | 6576 (4) | 7599 (5) | 8297 (6) | 9019 (8) | 1462 (7) | 1895 (5) | 1889 (4) | 1996 (3) | 2150 (5) | 2175 (7) | 2269 (7) | 2366 (6) | 1462 (7) | 4422 (3) | 5277 (4) | 5921 (4) | 6576 (4) | 7599 (5) | 8297 (6) | 9019 (8) | | |
| Palakkad | 1307 (10) | 1623 (12) | 1757 (9) | 1813 (9) | 1822 (13) | 1947 (10) | 2032 (11) | 2121 (10) | 1307 (10) | 3082 (13) | 4922 (9) | 5376 (12) | 5600 (13) | 6788 (11) | 7448 (12) | 8120 (11) | 1307 (10) | 1623 (12) | 1757 (9) | 1813 (9) | 1822 (13) | 1947 (10) | 2032 (11) | 2121 (10) | 1307 (10) | 3082 (13) | 4922 (9) | 5376 (12) | 5600 (13) | 6788 (11) | 7448 (12) | 8120 (11) | | |
| Malappuram | 1045 (11) | 1094 (14) | 1167 (14) | 1187 (14) | 1307 (14) | 1253 (14) | 1309 (14) | 1369 (13) | 1045 (11) | 2592 (14) | 3275 (14) | 3618 (14) | 4056 (14) | 4426 (14) | 4864 (14) | 5307 (14) | 1045 (11) | 1094 (14) | 1167 (14) | 1187 (14) | 1307 (14) | 1253 (14) | 1309 (14) | 1369 (13) | 1045 (11) | 2592 (14) | 3275 (14) | 3618 (14) | 4056 (14) | 4426 (14) | 4864 (14) | 5307 (14) | | |
| Kozhikode | 1588 (3) | 1670 (10) | 1742 (10) | 1936 (5) | 2038 (9) | 2038 (10) | 2126 (10) | 2217 (9) | 1588 (3) | 3949 (10) | 4837 (12) | 5936 (3) | 6367 (9) | 7195 (10) | 7828 (10) | 8480 (10) | 1588 (3) | 1670 (10) | 1742 (10) | 1936 (5) | 2038 (9) | 2038 (10) | 2126 (10) | 2217 (9) | 1588 (3) | 3949 (10) | 4837 (12) | 5936 (3) | 6367 (9) | 7195 (10) | 7828 (10) | 8480 (10) | | |
| Wayanad | -- | 1933 (3) | 1762 (8) | 1928 (8) | 2614 (2) | 3221 (2) | 3376 (2) | 3544 (2) | -- | 4301 (6) | 4967 (6) | 5707 (7) | 8222 (2) | 11104 (2) | 12465 (2) | 13820 (2) | -- | 1933 (3) | 1762 (8) | 1928 (8) | 2614 (2) | 3221 (2) | 3376 (2) | 3544 (2) | -- | 4301 (6) | 4967 (6) | 5707 (7) | 8222 (2) | 11104 (2) | 12465 (2) | 13820 (2) | | |
| Kannur | 1571 (4) | 1665 (11) | 1930 (3) | 1890 (8) | 2121 (6) | 2136 (7) | 2230 (8) | 2327 (7) | 1571 (4) | 3872 (11) | 5364 (3) | 5628 (6) | 6542 (8) | 7379 (9) | 8088 (9) | 8803 (9) | 1571 (4) | 1665 (11) | 1930 (3) | 1890 (8) | 2121 (6) | 2136 (7) | 2230 (8) | 2327 (7) | 1571 (4) | 3872 (11) | 5364 (3) | 5628 (6) | 6542 (8) | 7379 (9) | 8088 (9) | 8803 (9) | | |
| Kasaragod | -- | 1559 (13) | 1652 (13) | 1803 (12) | 1958 (11) | 1917 (12) | 2004 (13) | 2095 (11) | -- | 3658 (12) | 4663 (10) | 5487 (11) | 6090 (11) | 6666 (13) | 7322 (13) | 7982 (12) | -- | 1559 (13) | 1652 (13) | 1803 (12) | 1958 (11) | 1917 (12) | 2004 (13) | 2095 (11) | -- | 3658 (12) | 4663 (10) | 5487 (11) | 6090 (11) | 6666 (13) | 7322 (13) | 7982 (12) | | |
| State | 1508 | 1815 | 1826 | 1932 | 2114 | 2248 | 2264 | 2363 | 1508 | 4200 | 6140 | 5788 | 6524 | 7597 | 8324 | 9066 | 1508 | 1815 | 1826 | 1932 | 2114 | 2248 | 2264 | 2363 | 1508 | 4200 | 6140 | 5788 | 6524 | 7597 | 8324 | 9066 | | |

Note: Figures in bracket shows Rank.

Growth Rate of District Income during 1996-97 at 1980-81 Prices

| District | (Percent) | | | | |
|--------------------|-----------|-----------|----------|-------|-------|
| | Primary | Secondary | Tertiary | Total | Total |
| 1 | 2 | 3 | 4 | 5 | 5 |
| Thiruvananthapuram | 6.78 | 4.99 | 5.25 | 5.55 | 5.55 |
| Kollam | 6.94 | 4.97 | 5.21 | 5.77 | 5.77 |
| Pathanamthitta | 7.26 | 4.80 | 5.19 | 5.92 | 5.92 |
| Alappuzha | 6.78 | 4.70 | 5.17 | 5.48 | 5.48 |
| Kottayam | 6.63 | 3.79 | 5.22 | 5.66 | 5.66 |
| Idukki | 7.22 | 6.05 | 5.22 | 6.60 | 6.60 |
| Ernakulam | 6.84 | 5.44 | 5.17 | 5.61 | 5.61 |
| Thrissur | 6.91 | 5.37 | 5.21 | 5.70 | 5.70 |
| Palakkad | 6.72 | 4.90 | 5.19 | 5.77 | 5.77 |
| Malappuram | 6.85 | 6.04 | 5.14 | 5.94 | 5.94 |
| Kozhikode | 6.82 | 5.24 | 5.16 | 5.66 | 5.66 |
| Wayanad | 6.82 | 4.12 | 5.21 | 6.30 | 6.30 |
| Kannur | 6.70 | 5.42 | 5.18 | 5.80 | 5.80 |
| Kasaragod | 6.69 | 5.45 | 5.19 | 5.90 | 5.90 |
| State | 6.87 | 5.21 | 5.91 | 5.76 | 5.76 |

Net State Domestic Product at Factor Cost by Industry of Origin (at constant prices) 1980-81 to 1996-97

| Sl.No. | Industry of Origin | (Rs. in lakhs) | | | | | | | | | |
|----------------------------|----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| | | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96* | 1996-97** | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| 1. | Agriculture | 129384 | 176136 | 181816 | 182606 | 190354 | 203436 | 216863 | 231176 | 231176 | |
| 2. | Forestry and Logging | 12382 | 2561 | 3474 | 3375 | 3953 | 4416 | 5122 | 5942 | 5942 | |
| 3. | Fishing | 7743 | 9380 | 8847 | 9138 | 9222 | 12795 | 13786 | 14854 | 14854 | |
| 4. | Mining and Quarrying | 461 | 1310 | 1290 | 1431 | 1201 | 823 | 891 | 1957 | 1957 | |
| Sub Total : Primary | | 149970 | 189386 | 195427 | 196550 | 204730 | 221470 | 236662 | 252929 | 252929 | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|----------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 5. | Manufacturing | 53152 | 79871 | 82442 | 892615 | 92908 | 91048 | 96048 | 99898 |
| 5.1 | Registered | 29030 | 40710 | 44341 | 46459 | 48920 | 48002 | 50421 | 52962 |
| 5.2 | Unregistered | 24122 | 39161 | 38101 | 42920 | 43695 | 43906 | 45627 | 46936 |
| 6. | Electricity, gas and water supply | 5509 | 5736 | 4599 | 8136 | 7648 | 7384 | 7311 | 7244 |
| 7.1 | Electricity | 5077 | 4261 | 3267 | 6827 | 6111 | 6111 | 5979 | 5850 |
| 6.2 | Gas | 85 | 934 | 944 | 948 | 701 | 647 | 654 | 661 |
| 6.3 | Water Supply | 347 | 541 | 388 | 361 | 836 | 758 | 807 | 859 |
| 7. | Construction | 34496 | 40270 | 40811 | 43931 | 63314 | 61128 | 65798 | 70825 |
| | Sub Total : Secondary | 93157 | 125877 | 127852 | 141446 | 163577 | 160420 | 169157 | 177967 |
| 8. | Transport, Storage and Communication | 13625 | 29491 | 24579 | 43354 | 55215 | 58082 | 61402 | 65036 |
| 8.1 | Railways | 419 | 873 | 1442 | 1199 | 1139 | 1182 | 1194 | 1218 |
| 8.2 | Transport by other means & storage | 10770 | 24165 | 28667 | 35833 | 17273 | 49180 | 51639 | 54221 |
| 8.3 | Communication | 2436 | 4453 | 4470 | 6222 | 6803 | 7720 | 8569 | 9597 |
| 9. | Trade, Hotel & Restaurants | 57577 | 72386 | 77043 | 79577 | 84281 | 87838 | 92230 | 96841 |
| 10. | Banking and Insurance | 11428 | 38505 | 36083 | 40324 | 45628 | 54947 | 57694 | 60579 |
| 11. | Real Estate and Ownership of Dwellings | 12198 | 2813 | 365 | 404 | 439 | 244 | 266 | 290 |
| 12. | Public Administration | 15133 | 32501 | 28846 | 32599 | 36836 | 37510 | 39386 | 41355 |
| 13. | Other Services | 39185 | 35275 | 36271 | 41007 | 47345 | 42859 | 45002 | 47252 |
| | Sub Total : Tertiary | 139146 | 210971 | 213187 | 237165 | 269744 | 281480 | 296980 | 311353 |
| | Net State Domestic Product | 382273 | 526234 | 536466 | 575161 | 638051 | 663370 | 701799 | 742249 |
| | Population ('000) | 25357 | 28987 | 29378 | 29775 | 30177 | 30584 | 30997 | 31415 |
| | Per capita income (Rs.) | 1508 | 1815 | 1826 | 1932 | 2114 | 2169 | 2264 | 2363 |

Source : Directorate of Economics & Statistics

* Provisional

** Quick Estimate

Net State Domestic Product at Factor Cost by Industry of Origin (at current prices) 1980-81 to 1996-97

| Sl.No. | Industry of Origin | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 95-96* | 98-97** |
|--------|----------------------------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | | | | | | (Rs. in lakhs) |
| 1. | Agriculture | 129384 | 351843 | 527417 | 544163 | 604125 | 756528 | 839140 | 950326 |
| 2. | Forestry and Logging | 12382 | 8376 | 12446 | 14477 | 23118 | 34591 | 40126 | 46546 |
| 3. | Fishing | 7743 | 37193 | 50685 | 56049 | 58494 | 77968 | 84011 | 90521 |
| 4. | Mining and Quarrying | 461 | 3189 | 3528 | 4106 | 4712 | 5586 | 6511 | 7472 |
| | Sub Total : Primary | 149970 | 400601 | 594076 | 618795 | 690449 | 844673 | 968788 | 1094865 |
| 5. | Manufacturing | 53142 | 191390 | 232742 | 265457 | 287878 | 313929 | 342436 | 372276 |
| 5.1 | Registered | 29030 | 100146 | 124154 | 137984 | 150675 | 164648 | 180899 | 197994 |
| 5.2 | Unregistered | 24122 | 91244 | 108588 | 127473 | 137203 | 149281 | 161537 | 174282 |
| 6. | Electricity, gas and water supply | 5509 | 11632 | 12015 | 23424 | 23556 | 25327 | 26886 | 27781 |
| 7.1 | Electricity | 5077 | 8709 | 9147 | 20275 | 18823 | 20508 | 21718 | 22374 |
| 6.2 | Gas | 85 | 1383 | 1586 | 1862 | 2158 | 2219 | 2427 | 2575 |
| 6.3 | Water Supply | 347 | 1540 | 1282 | 1287 | 2575 | 2600 | 2743 | 2832 |
| 7. | Construction | 34496 | 117771 | 12913 | 159965 | 195008 | 209669 | 225436 | 242389 |
| | Sub Total : Secondary | 93157 | 320793 | 373970 | 448846 | 506442 | 548925 | 594758 | 642446 |
| 8. | Transport, Storage and Communication | 13165 | 80428 | 87275 | 112323 | 167502 | 200691 | 232576 | 269726 |
| 8.1 | Railways | 419 | 3310 | 3769 | 5013 | 5161 | 5137 | 5201 | 5305 |
| 8.2 | Transport by other means & storage | 10770 | 62853 | 67368 | 84210 | 133294 | 159968 | 187163 | 218981 |
| 8.3 | Communication | 2436 | 14265 | 16138 | 23100 | 29047 | 35586 | 40212 | 45440 |
| 9. | Trade, Hotel & Restaurants | 57577 | 164734 | 180437 | 230543 | 236068 | 308272 | 326768 | 346374 |
| 10. | Banking and Insurance | 11428 | 71661 | 76413 | 88841 | 110703 | 133302 | 142633 | 152617 |
| 11. | Real Estate and Ownership of Dwellings | 12198 | 4353 | 586 | 649 | 824 | 475 | 527 | 611 |
| 12. | Public Administration | 15133 | 69447 | 77716 | 87077 | 106247 | 109544 | 119403 | 130149 |
| 13. | Other Services | 29185 | 105332 | 119622 | 130446 | 150591 | 177732 | 193728 | 211164 |
| | Sub Total : Tertiary | 139146 | 495955 | 542119 | 649979 | 771935 | 930016 | 1015635 | 1110641 |
| | Net State Domestic Product | 382273 | 1217349 | 1510165 | 1717520 | 1968826 | 2323614 | 2580181 | 2847952 |
| | Population ('000) | 25357 | 28987 | 29378 | 29775 | 30177 | 30584 | 30997 | 31415 |
| | Per capita income (Rs.) | 1508 | 4200 | 5140 | 5768 | 6524 | 7597 | 8324 | 9066 |

Source : Directorate of Economics & Statistics

* Provisional

** Quick Estimate

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|----------------|---------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|----------------|
| | 1994-95 | 77543 (40.69) | 44014 (23.10) | 69010 (36.21) | 190567 (100) | 18789 (35.64) | 12863 (24.10) | 21058 39.95) | 52708 (100) |
| | 1995-96 | 88142 (41.74) | 47752 (22.61) | 75258 (35.64) | 211152 (100) | 20082 (36.02) | 13532 (24.27) | 22146 (39.72) | 55760 (100) |
| | 1996-97 | 98821 (42.48) | 51624 (22.19) | 82171 (35.32) | 232616 (100) | 21476 (36.41) | 14204 (24.08) | 23299 (39.50) | 58979 (100) |
| Pathanamthitta | 1980-81 | 20500 (36.72) | 13157 (23.56) | 22180 (39.72) | 55837 (100) | 10040 (42.83) | 3747 (15.98) | 9654 (41.19) | 23441 (100) |
| | 1990-91 | 20500 (39.31) | 9472 (18.16) | 22180 (42.53) | 52152 (100) | 8581 (39.00) | 3681 (16.76) | 9704 (44.18) | 21966 (100) |
| | 1991-92 | 25695 (42.38) | 10889 (17.91) | 24069 (39.70) | 60623 (100) | 9166 (39.33) | 3925 (16.84) | 10217 (43.83) | 23308 (100) |
| | 1992-93 | 27029 (39.80) | 13449 (19.80) | 27438 (40.40) | 67916 (100) | 8853 (37.97) | 4208 (18.05) | 10256 (43.38) | 23317 (100) |
| | 1993-94 | 30607 (38.59) | 15139 (19.09) | 33575 (42.32) | 79321 (100) | 9115 (35.31) | 4875 (18.89) | 11821 (45.80) | 25811 (100) |
| | 1994-95 | 42346 (42.69) | 16381 (16.52) | 40461 (40.79) | 99188 (100) | 10721 (38.09) | 4795 (17.04) | 12631 (44.88) | 28147 (100) |
| | 1996-97 | 55563 (45.17) | 18996 (15.44) | 48451 (39.39) | 123010 (100) | 12326 (39.03) | 5285 (16.73) | 13970 (44.24) | 31581 (100) |
| Alappuzha | 1980-81 | 10149 (32.94) | 7675 (24.91) | 12985 (42.15) | 30809 (100) | 13310 (36.77) | 8182 (22.60) | 14706 (40.63) | 36198 (100) |
| | 1990-91 | 29963 (35.20) | 20477 (24.06) | 34672 (40.74) | 85112 (100) | 13310 (38.77) | 9543 (22.60) | 14706 (40.63) | 37469 (100) |
| | 1991-92 | 36558 (37.18) | 23816 (24.22) | 37952 (38.60) | 98326 (100) | 10984 (32.77) | 8164 (24.00) | 14881 (43.73) | 34029 (100) |
| | 1992-93 | 32456 (30.15) | 28896 (26.85) | 46276 (43.00) | 107628 (100) | 10017 (27.82) | 9193 (25.53) | 16800 (46.65) | 36010 (100) |
| | 1993-94 | 33047 (27.75) | 32307 (27.13) | 53731 (45.12) | 119085 (100) | 9438 (24.36) | 10405 (26.86) | 18893 (48.78) | 38736 (100) |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|----------|---------|------------------|------------------|-------------------|-----------------|------------------|------------------|------------------|----------------|
| | 1994-95 | 44245 (30.69) | 35019 (24.29) | 64897 (45.02) | 144161 (100) | 10777 (26.59) | 10247 (25.29) | 10502 (48.12) | 40526 (100) |
| | 1995-96 | 50426 (31.70) | 37883 (23.82) | 70750 (44.48) | 159059 (100) | 11512 (26.91) | 10765 (25.16) | 20503 (47.93) | 42780 (100) |
| | 1996-97 | 56571 (32.39) | 40838 (23.38) | 77229 (44.23) | 174638 (100) | 12292 (27.24) | 11271 (23.98) | 21562 (47.78) | 45125 (100) |
| Kottayam | 1980-81 | 10777 (43.75) | 3616 (14.68) | 10240 (41.57) | 24633 (100) | 10777 (43.75) | 3616 (14.68) | 10240 (41.57) | 24633 (100) |
| | 1990-91 | 29147 (39.66) | 8093 (11.01) | 36253 (49.33) | 79493 (100) | 14511 (43.71) | 3321 (10.00) | 15370 (46.29) | 33202 (100) |
| | 1991-92 | 42300 (46.37) | 9255 (10.17) | 39657 (43.47) | 91232 (100) | 42300 (46.37) | 9255 (10.17) | 39657 (43.47) | 91232 (100) |
| | 1992-93 | 42254 (41.29) | 11884 (11.61) | 48214 (47.10) | 102352 (100) | 14096 (39.74) | 3817 (10.78) | 17558 (49.50) | 35471 (100) |
| | 1993-94 | 46732 (40.07) | 13080 (11.21) | 56822 (48.72) | 116634 (100) | 14620 (37.81) | 4206 (10.88) | 19837 (51.31) | 38663 (100) |
| | 1994-95 | 62491 (43.10) | 14163 (9.77) | 68345 (47.13) | 144999 (100) | 17079 (40.80) | 4147 (9.91) | 20634 (49.29) | 41860 (100) |
| | 1995-96 | 72109 (44.50) | 15258 (9.42) | 74666 (46.08) | 162032 (100) | 18215 (41.17) | 4326 (9.78) | 21701 (49.05) | 44242 (100) |
| | 1996-97 | 81617 (45.43) | 16349 (9.10) | 81681 (45.47) | 179647 (100) | 19423 (41.55) | 4490 (9.60) | 22834 (48.85) | 46747 (100) |
| Idukki | 1980-81 | 10506 (54.52) | 5469 (28.38) | 3295 (17.10) | 19270 (100) | 10506 (54.62) | 5469 (28.38) | 3295 (17.10) | 19270 (100) |
| | 1990-91 | 27618 (54.99) | 10848 (21.60) | 117858 (23.41) | 50224 (100) | 13588 (60.34) | 4022 (17.86) | 4907 (21.79) | 22517 (100) |
| | 1991-92 | 41142 (62.15) | 12182 (18.40) | 12876 (19.45) | 66200 (100) | 14031 (60.82) | 4019 (17.42) | 5619 (21.76) | 23069 (100) |
| | 1992-93 | 40687 (57.09) | 15538 (21.86) | 14964 (21.05) | 71089 (100) | 13221 (56.94) | 4612 (19.86) | 5385 (23.20) | 23218 (100) |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|-----------|---------|-------------------|-------------------|-------------------|-----------------|------------------|------------------|------------------|-----------------|
| | 1993-94 | 54792 (60.78) | 17960 919.92) | 17398 (19.30) | 90150 (100) | 17164 (59.16) | 5823 (20.07) | 6025 (20.77) | 29012 (100) |
| | 1994-95 | 70765 (63.59) | 19390 (17.42) | 21136 (18.99) | 111291 (100) | 18869 (61.31) | 5658 (18.39) | 6248 (20.30) | 30775 (100) |
| | 1995-96 | 81737 (65.03) | 20893 (16.62) | 23064 (18.35) | 125694 (100) | 20235 (61.67) | 5999 (18.28) | 6576 (20.05) | 32810 (100) |
| | 1996-97 | 92858 (766.09) | 22440 (15.98) | 25194 (17.93) | 140492 (100) | 21695 (62.03) | 6362 (18.19) | 6919 (19.78) | 34976 (100) |
| Ernakulam | 1980-81 | 12830 (25.16) | 18385 (36.05) | 19782 (38.79) | 50997 (100) | 12830 (25.16) | 18385 (36.05) | 19782 (38.79) | 50997 (100) |
| | 1990-91 | 40591 (22.25) | 78446 (43.00) | 63412 (34.76) | 182449 (100) | 18704 (24.26) | 30767 (39.90) | 27641 (35.85) | 77112 (100) |
| | 1991-92 | 65934 (28.94) | 93107 (40.87) | 68761 (30.18) | 227802 (100) | 18915 (24.03) | 32152 (40.85) | 27650 (35.13) | 78717 (100) |
| | 1992-93 | 59255 (23.21) | 108695 (42.58) | 87320 (34.21) | 255270 (100) | 17955 (21.00) | 34676 (40.55) | 32885 (38.45) | 85516 (100) |
| | 1993-94 | 67808 (22.85) | 122214 (41.19) | 106710 (35.96) | 296732 (100) | 18458 (19.21) | 39574 (41.19) | 38047 (39.60) | 96079 (100) |
| | 1994-95 | 80356 (23.23) | 132747 (38.30) | 128633 (37.47) | 341736 (100) | 19685 (20.18) | 38748 (39.28) | 40153 (40.54) | 98566 (100) |
| | 1995-96 | 91373 (24.23) | 144465 (38.30) | 141318 (37.47) | 377156 (100) | 21017 (20.18) | 40901 (39.28) | 42216 (40.54) | 104134 (100) |
| | 1996-97 | 102426 (24.70) | 156757 (37.80) | 155507 (37.50) | 414690 (100) | 22454 (20.42) | 43124 (39.21) | 44400 (4037) | 109978 (100) |
| Thrissur | 1980-81 | 12263 (34.50) | 9083 (25.55) | 14198 (39.95) | 35544 (100) | 12263 (34.50) | 9083 (25.55) | 14198 (39.95) | 35544 (100) |
| | 1990-91 | 32950 (27.31) | 36312 (30.10) | 51370 (42.58) | 120632 (100) | 15818 (30.59) | 14193 (27.45) | 21692 (41.96) | 51703 (100) |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|------------|---------|------------------|------------------|-------------------|-----------------|------------------|------------------|------------------|----------------|
| | 1991-92 | 47199 (32.36) | 42564 (29.18) | 56080 (38.45) | 145843 (100) | 15505 (29.70) | 14584 (27.94) | 22115 (42.36) | 52204 (100) |
| | 1992-93 | 48915 (29.48) | 50633 (30.52) | 66365 (40.00) | 165913 (100) | 15676 (28.03) | 15974 (28.57) | 24264 (43.40) | 55914 (100) |
| | 1993-94 | 51012 (27.32) | 57153 (30.60) | 78585 (42.08) | 186750 (100) | 15176 (24.85) | 18484 (30.27) | 27411 (44.88) | 61071 (100) |
| | 1994-95 | 61541 (28.14) | 61984 (28.34) | 95173 (43.52) | 216698 (100) | 15829 (25.28) | 18105 (28.87) | 28674 (45.56) | 62608 (100) |
| | 1995-96 | 70691 (29.21) | 67262 (27.79) | 104066 (43.00) | 242019 (100) | 16920 (25.57) | 19108 (28.87) | 30155 (45.56) | 66183 (100) |
| | 1996-97 | 79875 (29.96) | 72772 (27.30) | 113951 (42.74) | 266598 (100) | 20086 (36.80) | 12960 (23.75) | 21530 (39.45) | 54576 (100) |
| Palakkad | 1980-81 | 10758 (40.47) | 6179 (23.25) | 9644 (36.28) | 28581 (100) | 10758 (40.47) | 6179 (23.25) | 9644 (36.28) | 26581 (100) |
| | 1990-91 | 29200 (33.41) | 23572 (28.97) | 34627 (39.62) | 87399 (100) | 14496 (37.61) | 9371 (34.32) | 14672 (38.07) | 38539 (100) |
| | 1991-92 | 53943 (44.71) | 27542 (28.25) | 37940 (32.04) | 118425 (100) | 17925 (42.41) | 9451 (22.36) | 14889 (35.23) | 42265 (100) |
| | 1992-93 | 53046 (40.45) | 33036 (25.20) | 45032 (34.35) | 131114 (100) | 17556 (39.70) | 10500 (23.75) | 18165 (36.55) | 44221 (100) |
| | 1993-94 | 47571 (34.36) | 37010 (26.73) | 53864 (38.91) | 138445 (100) | 14455 (32.10) | 11930 (26.50) | 18644 (41.40) | 45029 (100) |
| | 1994-95 | 64800 (38.11) | 40136 (23.60) | 65112 (38.91) | 170048 (100) | 17564 (36.01) | 11740 (24.07) | 19466 (39.92) | 48770 (100) |
| | 1995-96 | 74813 (39.56) | 43468 (22.99) | 70825 (37.45) | 189106 (100) | 18775 (38.39) | 12355 (23.95) | 20467 (39.67) | 51597 (100) |
| | 1996-97 | 84848 (40.61) | 48938 (22.47) | 77142 (38.92) | 208928 (100) | 20086 (38.80) | 12960 (23.75) | 21530 (38.45) | 54576 (100) |
| Malappuram | 1980-81 | 11986 (48.18) | 3300 (13.27) | 9590 (38.55) | 24876 (100) | 11988 (48.18) | 3300 (13.27) | 9690 (38.55) | 24876 (100) |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|-----|---------|------------------|------------------|-------------------|-----------------|------------------|------------------|------------------|----------------|
| | 1990-91 | 33699 (42.15) | 11631 (14.55) | 34613 (43.29) | 79943 (100) | 14969 (44.38) | 4373 (12.96) | 14404 (42.68) | 33746 (100) |
| | 1991-92 | 51219 (50.03) | 13167 (12.86) | 37986 (37.11) | 102372 (100) | 17284 (47.38) | 4389 (12.03) | 14821 (40.61) | 36494 (100) |
| | 1992-93 | 53053 (46.27) | 16169 (14.10) | 45434 (39.63) | 114656 (100) | 16819 (44.35) | 4862 (12.82) | 16246 (42.83) | 37927 (100) |
| | 1993-94 | 57973 (44.51) | 18804 (14.44) | 53459 (41.05) | 130236 (100) | 17438 (41.54) | 6082 (14.49) | 18458 (43.97) | 41978 (100) |
| | 1994-95 | 58847 (40.86) | 20295 (14.09) | 64883 (45.05) | 144025 (100) | 15728 (38.51) | 5926 (14.51) | 19187 (46.98) | 40841 (100) |
| | 1995-96 | 67725 (42.22) | 21892 (13.65) | 70785 (44.13) | 160402 (100) | 16810 (38.92) | 6294 (14.58) | 20082 (46.50) | 43186 (100) |
| | 1996-97 | 76526 (43.13) | 23563 (13.28) | 77331 (43.59) | 177420 (100) | 17962 (39.28) | 6674 (14.59) | 21114 (46.15) | 45750 (100) |
| | 1980-81 | 16048 (38.66) | 10915 (26.30) | 14543 (35.04) | 41506 (100) | 16048 (38.66) | 10915 (26.30) | 14543 (35.04) | 41506 (100) |
| | 1990-91 | 27384 (26.58) | 30067 (29.18) | 45573 (44.24) | 103024 (100) | 12695 (28.84) | 11758 (26.81) | 19179 (43.74) | 43852 (100) |
| | 1991-92 | 43043 (33.65) | 34886 (27.26) | 49989 (39.09) | 127898 (100) | 14584 (31.87) | 11857 (25.74) | 19619 (42.59) | 46056 (100) |
| | 1992-93 | 56880 (35.75) | 41894 (26.33) | 60324 (37.92) | 159098 (100) | 17127 (33.00) | 13116 (25.28) | 21653 (41.72) | 51896 (100) |
| | 1993-94 | 55260 (31.96) | 47475 (27.45) | 70187 (40.59) | 172922 (100) | 15753 (28.46) | 15317 (27.67) | 24276 (43.87) | 55346 (100) |
| | 1994-95 | 61650 (31.12) | 51420 (25.96) | 85005 (42.92) | 198075 (100) | 15905 (28.34) | 15034 (26.79) | 25179 (44.87) | 56118 (100) |
| | 1995-96 | 70320 (29.94) | 55641 (28.25) | 92452 (41.81) | 218413 (100) | 16982 (26.42) | 15867 (27.68) | 26474 (45.90) | 59323 (100) |
| | 1996-97 | 78988 (32.95) | 60052 (25.05) | 100678 (42.00) | 239718 (100) | 18140 (28.94) | 16698 (26.64) | 27840 (44.42) | 62678 (100) |

Kozhikode

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|----------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|----------------|------|
| Wayanad | | | | | | | | | |
| 1980-81 | - | - | - | - | - | - | - | - | - |
| 1990-91 | 17587 (61.03) | 4182 (14.51) | 7047 (24.56) | 28816 (100) | 8685 (64.86) | 1711 (12.77) | 2995 (22.37) | 13391 (100) | |
| 1991-92 | 21122 (62.62) | 4902 (14.53) | 7705 (22.84) | 33729 (100) | 7223 (60.38) | 1695 (14.17) | 3044 (25.45) | 11962 (100) | |
| 1992-93 | 24047 (61.24) | 5849 (14.90) | 9368 (23.86) | 39264 (100) | 7953 (59.96) | 1896 (14.30) | 3413 (25.74) | 13262 (100) | |
| 1993-94 | 39882 (69.80) | 6475 (11.30) | 10947 (19.10) | 57304 (100) | 12300 (67.50) | 2078 (11.40) | 3645 (21.10) | 18223 (100) | |
| 1994-95 | 58191 (74.12) | 7026 (8.95) | 13290 (16.93) | 78507 (100) | 16718 (73.42) | 2059 (9.04) | 3994 (17.54) | 22771 (100) | |
| 1995-96 | 67261 (75.19) | 7681 (8.59) | 14514 (16.22) | 89456 (100) | 17850 (73.74) | 2158 (8.91) | 4200 (17.35) | 24208 (100) | |
| 1996-97 | 76260 (76.01) | 8198 (8.17) | 15874 (15.82) | 100332 (100) | 19067 (74.10) | 2247 (8.73) | 4419 (17.17) | 25733 (100) | |
| 1980-81 | 22779 (48.94) | 8725 (18.75) | 15038 (32.31) | 46542 (100) | 22779 (48.94) | 8725 (18.75) | 15038 (32.31) | 46542 (100) | |
| 1990-91 | 23868 (27.47) | 21790 (25.08) | 41238 (47.25) | 86896 (100) | 11425 (30.57) | 8472 (22.67) | 17471 (46.75) | 17368 (100) | |
| 1991-92 | 51480 (42.20) | 25302 (20.74) | 19198 (37.05) | 121980 (100) | 17506 (39.88) | 8603 (19.60) | 17786 (40.52) | 43895 (100) | |
| 1992-93 | 49228 (37.97) | 30185 (23.28) | 50219 (38.74) | 129632 (100) | 16122 (37.02) | 9424 (21.64) | 18000 (41.34) | 43546 (100) | |
| 1993-94 | 59787 (39.13) | 34338 (22.48) | 58645 (38.39) | 152750 (100) | 18258 (36.87) | 11085 (22.39) | 20173 (40.74) | 49516 (100) | |
| 1994-95 | 66866 (38.30) | 37190 (21.30) | 70523 (40.40) | 174579 (100) | 18732 (37.07) | 10871 (21.51) | 20929 (41.42) | 50532 (100) | |
| 1995-96 | 76916 (39.66) | 40269 (20.76) | 76771 (39.58) | 193956 (100) | 19995 (37.38) | 11490 (21.48) | 22001 (41.14) | 53486 (100) | |
| 1996-97 | 86927 (40.60) | 43498 (20.32) | 83673 (39.08) | 214098 (100) | 21335 (37.70) | 12113 (21.41) | 23140 (40.89) | 56588 (100) | |
| Kannur | | | | | | | | | |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|------------------|-----|--------------------|-------------------|--------------------|------------------|-------------------|-------------------|-------------------|-----------------|
| Kasaragod | | | | | | | | | |
| 1980-81 | | | | | | | | | |
| 1990-91 | | 17535 (44.92) | 8511 (21.80) | 12992 (33.28) | 39038 (100) | 8169 (49.11) | 3291 (19.78) | 8175 (31.12) | 118635 (100) |
| 1991-92 | | 26319 (52.26) | 9788 (19.42) | 14258 (28.30) | 50365 (100) | 9062 (50.79) | 3305 (18.52) | 5476 (30.09) | 17843 (100) |
| 1992-93 | | 29650 (49.31) | 11801 (19.62) | 18686 (31.07) | 60137 (100) | 9489 (48.03) | 3646 (18.45) | 6622 (33.52) | 19757 (100) |
| 1993-94 | | 32734 (48.38) | 13493 (19.94) | 21436 (31.68) | 67663 (100) | 10031 (46.12) | 4353 (20.01) | 7368 (33.87) | 21752 (100) |
| 1994-95 | | 33273 (44.33) | 14597 (19.45) | 27189 (36.22) | 75059 (100) | 9459 (43.82) | 4267 (19.78) | 7857 (36.40) | 21585 (100) |
| 1995-96 | | 38315 (45.86) | 15773 (18.88) | 29460 (35.26) | 83548 (100) | 10093 (44.14) | 4515 (19.75) | 8258 (38.11) | 22866 (100) |
| 1996-97 | | 43309 (46.93) | 17007 (18.43) | 31960 (34.64) | 92276 (100) | 10768 (44.47) | 4761 (19.68) | 8687 (35.87) | 24218 (100) |
| Kerala | | | | | | | | | |
| 1980-81 | | 149970 (39.23) | 93157 (24.37) | 139146 (36.40) | 382273 (100) | 149970 (39.23) | 93157 (24.37) | 139146 (36.40) | 382273 (100) |
| 1990-91 | | 400601 (32.91) | 320793 (26.35) | 495955 (40.74) | 1217349 (100) | 189386 (35.99) | 125877 (23.92) | 210971 (40.09) | 526234 (100) |
| 1991-92 | | 594076 (39.34) | 373970 (24.76) | 542119 (35.90) | 1510165 (100) | 195427 (36.43) | 127852 (23.83) | 213187 (39.74) | 536466 (100) |
| 1992-93 | | 618795 (36.03) | 448846 (26.13) | 649879 (37.84) | 1717520 (100) | 196550 (34.17) | 141446 (24.59) | 237165 (41.24) | 575161 (100) |
| 1993-94 | | 690449 (35.07) | 506442 (25.72) | 771915 (39.21) | 1968826 (100) | 204730 (32.08) | 163577 (25.64) | 269744 (42.28) | 638051 (100) |
| 1994-95 | | 844673 (36.36) | 548925 (23.62) | 930016 (40.02) | 2323614 (100) | 221470 (33.39) | 160420 (24.18) | 281480 (42.43) | 663370 (100) |
| 1995-96 | | 969788 (37.59) | 594758 (23.05) | 1015635 (39.36) | 2580181 (100) | 236662 (33.72) | 169157 (24.10) | 295980 (42.17) | 701799 (100) |
| 1996-97 | | 1094865 (38.44) | 642446 (22.56) | 1110641 (39.00) | 2847952 (100) | 252929 (34.07) | 177967 (23.98) | 311353 (41.95) | 742249 (100) |

Source : Directorate of Economics and Statistics
 Figures in brackets indicate percentage.

Appendix - 2.9

District-Wise Distribution of State Income at Constant (1980-81) and Current Prices

| Districts | 1980-81 Prices | | | | Current price | | | | Population (000s) | |
|------------------------|-----------------|------------------|------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| | Primary (2) | Secondary (3) | Tertiary (4) | Total (5) | Primary (6) | Secondary (7) | Tertiary (8) | Total (9) | 1980-81 (10) | 1996-97 (11) |
| Thiruvananthapuram | 17815 (7.04) | 17642 (9.91) | 39912 (12.82) | 75389 (10.23) | 80276 (7.33) | 63414 (7.39) | 139799 (12.59) | 283489 (9.84) | 3140 (10.13) | 3182 (10.13) |
| Kollam | 21476 (8.49) | 14204 (7.98) | 23299 (7.48) | 58979 (7.92) | 98821 (9.03) | 51624 (7.65) | 82171 (7.40) | 232616 (8.07) | 2563 (8.27) | 2598 (8.27) |
| Pathanamthitta | 12326 (4.87) | 5285 (2.97) | 15970 (5.13) | 33581 (4.52) | 55563 (5.07) | 18996 (2.81) | 48451 (4.36) | 123010 (4.27) | 1265 (4.08) | 1282 (4.08) |
| Alappuzha | 12292 (4.86) | 11271 (6.33) | 21562 (6.93) | 45125 (6.16) | 56571 (5.17) | 40838 (6.05) | 77229 (6.95) | 174638 (6.08) | 2132 (6.88) | 2161 (6.88) |
| Kottayam | 19423 (7.68) | 4490 (2.52) | 22834 (7.33) | 46747 (6.28) | 81617 (7.45) | 16349 (2.42) | 81681 (7.35) | 179647 (6.24) | 1947 (6.28) | 1973 (6.28) |
| Idukki | 21695 (8.58) | 6362 (3.57) | 6919 (2.22) | 34976 (4.50) | 92858 (8.48) | 22440 (3.32) | 25194 (2.27) | 140492 (4.88) | 1150 (3.71) | 1165 (3.71) |
| Ernakulam | 22454 (8.88) | 43124 (24.24) | 44400 (14.26) | 109978 (14.78) | 102426 (9.36) | 156757 (23.22) | 155507 (14.0) | 414690 (14.40) | 3000 (9.68) | 3041 (9.68) |
| Thrissur | 18090 (7.15) | 20136 (11.31) | 31727 (10.19) | 69953 (9.40) | 79875 (7.30) | 72772 (10.78) | 113951 (10.26) | 266598 (9.25) | 2917 (9.41) | 2956 (9.41) |
| Palakkad | 20086 (7.94) | 12960 (7.28) | 21530 (6.91) | 54576 (7.33) | 84848 (7.75) | 46938 (6.95) | 77142 (6.96) | 203928 (7.25) | 2539 (8.19) | 2573 (8.19) |
| Malappuram | 17962 (7.10) | 6674 (3.75) | 21114 (6.78) | 45750 (6.15) | 76526 (6.99) | 23563 (3.49) | 77331 (6.96) | 177420 (6.16) | 3298 (10.64) | 3343 (10.64) |
| Kozhikode | 18140 (7.17) | 16698 (9.38) | 27840 (8.94) | 62678 (8.42) | 78988 (7.20) | 60052 (8.89) | 100678 (9.06) | 239718 (8.32) | 2790 (9.0) | 2827 (9.0) |
| Wayanadu | 19067 (7.54) | 2247 (1.26) | 4419 (1.42) | 25733 (3.46) | 76260 (6.97) | 8198 (1.22) | 15874 (1.43) | 100332 (3.48) | 717 (2.31) | 726 (2.31) |
| Kannur | 21335 (8.44) | 12113 (6.81) | 23140 (7.43) | 56588 (7.60) | 86927 (7.94) | 76260 (11.29) | 83673 (7.53) | 214098 (8.57) | 2398 (7.74) | 2432 (7.74) |
| Kasaragode | 10768 (4.26) | 4761 (2.68) | 8887 (2.79) | 24216 (3.25) | 43309 (3.96) | 17007 (2.52) | 31960 (2.88) | 92276 (3.21) | 1141 (3.68) | 1156 (3.68) |
| State Domestic Product | 252929 (100) | 177987 (100) | 311353 (100) | 742249 (100) | 1094865 (100) | 675208 (100) | 1110641 (100) | 2847952 (100) | 30997 (100) | 31415 (100) |

Distribution of Work Seekers in Kerala by Educational Level

| Year at the end of December (1) | Total work seekers (2) | Below S.S.L.C. (3) | S.S.L.C. (4) | Pre-Degree (5) | Graduates (6) | Post Graduates (7) | S.S.L.C. and above (8) | Percent 8+2 (9) |
|---------------------------------------|------------------------------|--------------------------|-----------------|-------------------|------------------|--------------------------|------------------------------|-----------------------|
| 1985 | 25,74,074 | 12,08,724 | 11,16,495 | 1,48,464 | 90,329 | 10,062 | 13,65,330 | 53.05 |
| 1986 | 27,04,874 | 12,09,462 | 12,51,793 | 1,36,193 | 97,217 | 10,209 | 14,95,412 | 55.30 |
| 1987 | 29,91,002 | 12,70,764 | 14,34,413 | 1,61,155 | 1,11,008 | 13,682 | 17,20,258 | 57.50 |
| 1988 | 29,01,051 | 11,85,145 | 14,38,051 | 1,60,233 | 1,00,330 | 17,292 | 17,15,908 | 59.10 |
| 1989 | 30,92,031 | 12,04,737 | 15,65,709 | 1,88,978 | 1,11,372 | 21,235 | 18,87,294 | 61.04 |
| 1990 | 33,20,035 | 12,27,319 | 16,55,465 | 2,73,725 | 1,35,213 | 28,313 | 20,92,716 | 63.03 |
| 1991 | 36,38,804 | 13,18,514 | 18,85,304 | 2,57,173 | 1,50,014 | 27,799 | 23,20,290 | 64.00 |
| 1992 | 38,47,063 | 13,45,260 | 20,27,567 | 2,83,556 | 1,61,571 | 29,109 | 25,01,803 | 85.00 |
| 1993 | 41,56,892 | 14,12,925 | 22,10,314 | 3,17,719 | 1,81,605 | 34,329 | 27,43,987 | 66.00 |
| 1994 | 41,68,669 | 13,77,759 | 22,38,232 | 3,25,760 | 1,90,261 | 36,637 | 27,90,910 | 67.00 |
| 1995 | 32,26,305 | 9,28,954 | 11,57,110 | 2,60,505 | 1,54,207 | 25,529 | 22,97,351 | 71.00 |
| 1996 | 32,87,474 | 8,22,163 | 19,84,136 | 2,87,766 | 1,61,962 | 31,427 | 24,65,291 | 75.00 |
| 1997 (as on 30.9.97) | 35,19,159 | 8,54,384 | 21,22,515 | 3,21,431 | 1,84,591 | 36,238 | 26,64,775 | 75.72 |

Source: Directorate of Employment & Training

Appendix - 2.11

Number of Professional and Technical Work Seekers

| Year | Medical Graduates | Engineering Graduates | Diploma Holders in Engineering and Technical | I.T.I. Certificate Holders | Agricultural Graduates | Veterinary Graduates | Total |
|-------------------------|-------------------|-----------------------|----------------------------------------------|----------------------------|------------------------|----------------------|--------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1985 | 1143 | 2917 | 11257 | 53237 | 149 | 25 | 68728 |
| 1986 | 1270 | 3805 | 14812 | 59225 | 209 | 14 | 79335 |
| 1987 | 1728 | 4916 | 17062 | 63056 | 177 | 72 | 87011 |
| 1988 | 1334 | 4380 | 16776 | 64629 | 324 | 49 | 87482 |
| 1989 | 1481 | 5649 | 19273 | 70971 | 446 | 26 | 97846 |
| 1990 | 1806 | 6507 | 20154 | 87069 | 368 | 128 | 116032 |
| 1991 | 2588 | 7762 | 22339 | 75898 | 363 | 13 | 109023 |
| 1992 | 3123 | 9286 | 25810 | 89616 | 219 | 83 | 128137 |
| 1993 | 3318 | 9549 | 34680 | 87962 | 451 | 110 | 136070 |
| 1994 | 3494 | 10420 | 30720 | 80757 | 4001 | 214 | 129606 |
| 1995 | 1974 | 7553 | 26403 | 82030 | 1305 | 148 | 119413 |
| 1996 | 1976 | 7274 | 28565 | 89847* | 1265 | 32 | 128959 |
| 1997 (As on 30.9.97) | 2100 | 7452 | 30359 | 93693 | 1303 | 22 | 134929 |

Source: Directorate of Employment and Training

Appendix - 2.12

Employment in the Public and Private Sector in Kerala

| Year | Public Sector | Private Sector | Total | Index (1) | Index (2) | Index (3) | Index (4) | Index (5) | Index (6) | Index (7) |
|---------|---------------|----------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1985-86 | 568713 | 507375 | 1076088 | 101 | 99 | 100 | 507375 | 99 | 1076088 | 100 |
| 1986-87 | 576784 | 519115 | 1095899 | 102 | 102 | 102 | 519115 | 102 | 1095899 | 102 |
| 1987-88 | 585391 | 508917 | 1094308 | 104 | 100 | 102 | 508917 | 100 | 1094308 | 102 |
| 1988-89 | 602696 | 501653 | 1104349 | 107 | 98 | 103 | 501653 | 98 | 1104349 | 103 |
| 1989-90 | 620254 | 486354 | 1106608 | 110 | 95 | 103 | 486354 | 95 | 1106608 | 103 |
| 1990-91 | 645856 | 525882 | 1171738 | 111 | 103 | 109 | 525882 | 103 | 1171738 | 109 |
| 1991-92 | 647853 | 532837 | 1180690 | 103 | 100 | 100 | 532837 | 100 | 1180690 | 100 |
| 1992-93 | 649199 | 536480 | 1185679 | 100 | 102 | 101 | 536480 | 102 | 1185679 | 101 |
| 1993-94 | 643615 | 540472 | 1184087 | 99 | 102 | 100 | 540472 | 102 | 1184087 | 100 |
| 1994-95 | 620422 | 553986 | 1174408 | 95 | 105 | 100 | 553986 | 105 | 1174408 | 100 |
| 1995-96 | 620068 | 552474 | 1172542 | 95 | 105 | 99 | 552474 | 105 | 1172542 | 99 |
| 1996-97 | 624542 | 554084 | 1178626 | 95 | 103 | 99 | 554084 | 103 | 1178626 | 99 |

Source : Directorate of Employment and Training

Appendix - 2.13

Country-wise Deployment of personnel by ODEPC as on 30-11-97

| Country (1) | 1991 (2) | 1992 (3) | 1993 (4) | 1994 (5) | 1995 (6) | 1996 (7) | 1997 (8) |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Kuwait | 7 | 3 | -- | -- | -- | -- | 41 |
| Muscat | 1 | -- | -- | -- | -- | -- | -- |
| Malaysia | 1 | -- | -- | -- | -- | -- | 6 |
| Qatar | -- | 1 | 2 | 3 | -- | -- | 17 |
| Singapore | 36 | -- | -- | -- | -- | -- | 79 |
| Saudi Arabia | 291 | 106 | 76 | 69 | 98 | 129 | 49 |
| U.A.E. | -- | 1 | 12 | 7 | 13 | 52 | 7 |
| Bahrain | -- | 2 | -- | 7 | -- | -- | 1 |
| Cyprus | -- | 1 | -- | -- | -- | -- | -- |
| Yemen | -- | -- | 1 | -- | 1 | -- | -- |
| Total | 336 | 114 | 91 | 86 | 112 | 181 | 200 |

Source: ODEPC

Appendix - 2.14

Unemployment Assistance Scheme

| Year (1) | No. of Beneficiaries (2) | Amount Disbursed Rs. in crores (3) |
|----------------------------|--------------------------------|------------------------------------------|
| 1985-86 | 1,79,146 | 10.12 |
| 1986-87 | 2,18,446 | 8.36 |
| 1987-88 | 2,05,556 | 10.96 |
| 1988-89 | 2,15,456 | 23.54 |
| 1989-90 | 2,46,040 | 19.96 |
| 1990-91 | 2,64,314 | 19.35 |
| 1991-92 | 2,60,196 | 16.20 |
| 1992-93 | 2,29,149 | 6.26 |
| 1993-94 | 2,73,512 | 17.49 |
| 1994-95 | 2,81,424 | 21.37 |
| 1995-96 | 2,72,371 | 26.49 |
| 1996-97 | 2,64,382 | 22.70 |
| 1997-98 (As on 30.9.97) | 2,60,696 | 21.07 |

Source: Directorate of employment and Training

Appendix - 3.1

Wholesale Price Index Of Agricultural Commodities - Kerala 1997

(Base: 1952-53=100)

| Sl.No. | Crops | 1997 | | | | | | | | | | | | | |
|--------|-----------------------|------------------|---------|----------|--------|--------|--------|--------|------|--------|-----------|---------|----------|----------|----------|
| | | 1996 December | January | February | March | April | May | June | July | August | September | October | November | December | Average* |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
| 1. | Rice | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | NA | NA | NA | NA | NA | NA | 1161.9 |
| 2. | Molasses | 2155.4 | 2312.8 | 2169.0 | 2158.8 | 2470.2 | 2471.6 | 2446.8 | " | " | " | " | " | " | 2338.2 |
| 3. | Condiments and spices | 2113.5 | 2394.1 | 2480.7 | 2501.1 | 2744.4 | 2998.8 | 3582.1 | " | " | " | " | " | " | 2783.5 |
| 4. | Fruits and Vegetables | 3351.8 | 3380.8 | 3408.1 | 3264.4 | 3188.9 | 2980.0 | 2908.2 | " | " | " | " | " | " | 3185.1 |
| 5. | Food Crops | 1718.8 | 1774.6 | 1788.7 | 1787.4 | 1804.3 | 1807.1 | 1892.6 | " | " | " | " | " | " | 1805.8 |
| 6. | Oil Seeds | 3361.8 | 3571.9 | 3693.3 | 3300.4 | 2980.2 | 2994.3 | 2884.5 | " | " | " | " | " | " | 3237.4 |
| 7. | Plantation crops | 1499.0 | 1531.8 | 1518.9 | 1588.7 | 1590.4 | 1625.9 | 1582.9 | " | " | " | " | " | " | 1569.8 |
| 8. | Non-food crops | 2799.2 | 2955.8 | 3036.8 | 2777.4 | 2560.5 | 2581.0 | 2491.4 | " | " | " | " | " | " | 2733.8 |
| 9. | All crops | 2113.1 | 2205.7 | 2244.2 | 2138.1 | 2080.3 | 2089.6 | 2111.2 | " | " | " | " | " | " | 2144.5 |

Source: Department of Economics and Statistics, Govt. of Kerala

* Average from January to June (8 months) only

Appendix - 3.2

Month-end Average Retail Prices Of Essential Commodities 1997

(Rupees)

| Sl.No. | Name of Commodity | Unit | January | February | March | April | May | June | July | August | September | October | November | December |
|-------------------------|-------------------------------------------|-------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
| Cereals | | | | | | | | | | | | | | |
| 1. | Rice Matta (OM) | Kg. | 11.65 | 11.46 | 11.36 | 11.55 | 11.63 | 11.33 | 11.15 | 11.05 | 10.96 | 10.88 | 10.84 | 11.02 |
| 2. | Rice Chamba (OM) | " | 11.41 | 11.14 | 11.10 | 11.26 | 11.36 | 11.25 | 10.96 | 11.09 | 11.18 | 10.97 | 11.00 | 10.89 |
| 3. | Rice White | " | 10.89 | 10.93 | 10.97 | 10.98 | 10.93 | 10.82 | 10.78 | 10.52 | 10.47 | 10.36 | 10.40 | 10.54 |
| Pulses | | | | | | | | | | | | | | |
| 1. | Greengram | " | 23.47 | 24.35 | 25.50 | 26.94 | 28.50 | 27.79 | 26.54 | 24.79 | 23.86 | 23.32 | 23.90 | 24.42 |
| 2. | Blackgram (without husk) | " | 26.79 | 26.27 | 26.68 | 27.71 | 27.57 | 26.43 | 24.85 | 24.21 | 23.86 | 23.14 | 23.00 | 23.15 |
| 3. | Redgram | " | 17.77 | 17.75 | 18.03 | 18.29 | 18.43 | 18.26 | 17.94 | 18.00 | 18.00 | 17.34 | 17.10 | 17.07 |
| 4. | Dhsl | " | 31.51 | 29.96 | 29.15 | 29.54 | 29.19 | 27.83 | 26.25 | 25.92 | 25.63 | 25.33 | 24.83 | 25.32 |
| Other Food Items | | | | | | | | | | | | | | |
| 1. | Sugar (OM) | " | 13.30 | 13.50 | 13.44 | 14.49 | 15.44 | 15.59 | 15.73 | 16.11 | 15.41 | 15.88 | 15.69 | 15.71 |
| 2. | Milk | Ltr. | 11.71 | 11.79 | 11.86 | 11.86 | 11.86 | 11.86 | 11.81 | 11.86 | 11.86 | 11.86 | 11.86 | 11.85 |
| 3. | Tea (Kannan Devan) | ½ kg. | 44.71 | 45.46 | 45.50 | 45.50 | 45.50 | 45.50 | 45.65 | 47.09 | 48.07 | 48.64 | 49.93 | 50.89 |
| 4. | Coffee Powder (Brook Bond green label) | " | 56.61 | 56.79 | 57.14 | 57.50 | 57.50 | 57.69 | 57.78 | 58.53 | 58.84 | 59.95 | 60.69 | 81.71 |
| 5. | Baby food (Amul) | Kg. | 112.64 | 112.64 | 114.09 | 109.83 | 109.33 | 109.85 | 107.33 | 113.75 | 110.15 | 112.42 | 112.83 | 111.64 |
| 6. | Egg (Hen's White Legon) | Dozen | 17.46 | 18.50 | 16.63 | 14.31 | 16.79 | 19.51 | 16.65 | 16.26 | 16.20 | 16.90 | 17.44 | 17.94 |
| 7. | Mutton (without bones) | Kg. | 95.36 | 95.36 | 95.36 | 96.79 | 99.29 | 100.00 | 100.77 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|-----|------------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Oil and Oil seeds | | | | | | | | | | | | | |
| 1. | Coconut oil | Kg. | 69.54 | 68.78 | 55.90 | 56.73 | 50.76 | 55.46 | 55.12 | 54.58 | 53.66 | 55.18 | 59.54 | 56.81 |
| 2. | Groundnut oil | " | 45.08 | 44.64 | 44.48 | 44.67 | 44.36 | 44.77 | 44.95 | 44.89 | 44.16 | 43.96 | 44.15 | 44.60 |
| 3. | Refined oil (Postman) | " | 65.32 | 64.87 | 64.84 | 65.20 | 63.54 | 63.54 | 63.25 | 63.46 | 63.48 | 63.40 | 61.98 | 62.14 |
| 4. | Gingelly oil | " | 46.62 | 47.33 | 46.62 | 47.23 | 47.92 | 47.68 | 46.97 | 47.05 | 46.43 | 46.40 | 46.04 | 46.23 |
| 5. | Coconut (without husk) | 100 Nos | 655.71 | 640.36 | 562.14 | 545.71 | 516.07 | 520.71 | 508.48 | 498.57 | 511.07 | 505.71 | 581.79 | 571.92 |
| | Spices and Condiments | | | | | | | | | | | | | |
| 1. | Corriander | Kg | 45.86 | 42.38 | 39.00 | 39.21 | 41.07 | 42.07 | 41.31 | 39.86 | 39.14 | 37.57 | 36.50 | 36.38 |
| 2. | Chillies (dry) | " | 45.29 | 40.38 | 34.86 | 33.43 | 31.36 | 31.21 | 30.62 | 33.79 | 33.50 | 34.79 | 34.93 | 35.31 |
| 3. | Onion (small) | " | 10.07 | 9.33 | 9.75 | 10.71 | 12.18 | 12.86 | 10.77 | 9.00 | 9.21 | 10.83 | 13.49 | 17.62 |
| 4. | Tamarind (without seed) | " | 24.43 | 24.54 | 24.43 | 24.57 | 24.79 | 25.07 | 25.15 | 25.14 | 28.00 | 26.14 | 28.21 | 20.15 |
| | Tubers | | | | | | | | | | | | | |
| 1. | Chenai | " | 5.82 | 6.07 | 6.32 | 7.86 | 8.46 | 9.07 | 8.08 | 7.14 | 6.61 | 6.79 | 6.93 | 6.65 |
| 2. | Tapioca (Raw) | " | 4.09 | 4.16 | 4.25 | 4.23 | 4.27 | 4.25 | 4.19 | 4.25 | 4.25 | 4.21 | 4.29 | 4.35 |
| 3. | Potato | " | 8.00 | 7.27 | 6.68 | 7.56 | 7.08 | 8.14 | 7.96 | 6.71 | 5.93 | 6.95 | 7.61 | 7.50 |
| 4. | Colocassia | " | 9.79 | 9.79 | 10.42 | 11.09 | 11.33 | 11.36 | 10.90 | 11.23 | 11.62 | 11.15 | 10.38 | 10.08 |
| | Fruits and Vegetables | | | | | | | | | | | | | |
| 1. | Oion (Big) | " | 8.38 | 6.32 | 5.81 | 5.89 | 5.11 | 5.11 | 5.08 | 4.89 | 5.43 | 6.82 | 9.93 | 14.08 |
| 2. | Brinjal | " | 10.14 | 9.79 | 8.89 | 9.07 | 8.36 | 7.57 | 7.30 | 7.50 | 8.80 | 8.86 | 11.36 | 12.46 |
| 3. | Pumpkin | " | 5.21 | 5.29 | 5.04 | 5.36 | 5.32 | 5.11 | 5.46 | 5.14 | 5.43 | 6.00 | 6.14 | 6.15 |
| 4. | Cucumber | " | 5.93 | 8.11 | 5.93 | 5.79 | 6.00 | 8.39 | 6.08 | 7.14 | 6.93 | 7.25 | 7.71 | 7.15 |
| 5. | Ladies finger | " | 8.71 | 7.86 | 8.07 | 9.38 | 8.36 | 8.14 | 8.00 | 9.50 | 9.64 | 10.14 | 8.07 | 8.54 |
| 6. | Cabbage | " | 8.50 | 6.84 | 8.00 | 7.00 | 8.71 | 8.60 | 6.38 | 6.64 | 11.71 | 11.57 | 9.79 | 10.23 |
| 7. | Bittergourd | " | 11.71 | 10.57 | 9.79 | 11.43 | 14.93 | 15.92 | 16.38 | 13.64 | 11.86 | 15.00 | 14.00 | 14.15 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|-----|-----------------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8. | Ash gourd | Kg | 5.46 | 5.29 | 5.07 | 5.57 | 5.43 | 5.36 | 5.31 | 5.07 | 5.21 | 5.64 | 5.82 | 6.35 |
| 9. | Snakegourd | " | 8.21 | 7.10 | 6.93 | 7.93 | 8.36 | 8.21 | 8.31 | 8.86 | 8.86 | 9.64 | 10.07 | 10.69 |
| 10. | Chillies (Green) | " | 11.36 | 11.57 | 11.64 | 12.07 | 11.71 | 20.14 | 15.54 | 15.86 | 13.07 | 13.00 | 15.00 | 15.77 |
| 11. | Banana (green) | " | 11.00 | 9.89 | 8.46 | 9.50 | 11.68 | 11.11 | 10.46 | 11.46 | 12.86 | 11.82 | 10.89 | 11.12 |
| 12. | Plantain (green) | " | 8.43 | 8.32 | 7.32 | 8.00 | 7.79 | 8.07 | 7.58 | 8.50 | 8.29 | 8.43 | 7.50 | 7.62 |
| | Miscellaneous Items | | | | | | | | | | | | | |
| 1. | Tobacco | " | 59.62 | 58.46 | 57.38 | 56.23 | 57.38 | 57.15 | 56.38 | 55.85 | 53.31 | 45.85 | 41.62 | 41.85 |
| 2. | Mundu (Mull) | Each | 47.33 | 48.26 | 48.26 | 48.26 | 47.81 | 48.16 | 48.16 | 49.19 | 48.94 | 48.94 | 49.65 | 49.65 |
| 3. | Washing Sode | Kg | 16.36 | 16.43 | 16.32 | 16.32 | 16.36 | 16.43 | 16.46 | 16.50 | 17.14 | 17.39 | 17.50 | 17.50 |
| 4. | Washing Soap (501) | ½ Bar | 6.93 | 6.82 | 7.05 | 7.07 | 7.06 | 7.13 | 7.20 | 7.20 | 7.21 | 7.22 | 7.26 | 7.24 |
| 5. | Toilet soap (Lux) | Each | 8.43 | 8.46 | 8.50 | 8.49 | 8.44 | 8.42 | 8.52 | 8.64 | 8.62 | 8.74 | 8.95 | 9.00 |
| 6. | Tooth paste (Colgate) | 100 gms | 18.11 | 18.59 | 18.88 | 18.95 | 19.02 | 18.97 | 19.15 | 19.09 | 19.13 | 19.47 | 19.69 | 19.66 |
| 7. | Razor Blede (Topaz) | 5 Nos | 5.82 | 5.82 | 5.71 | 5.75 | 5.82 | 5.82 | 5.88 | 5.79 | 5.79 | 5.79 | 5.96 | 5.96 |
| 8. | Crocin | 2 Tabs | 0.89 | 0.93 | 0.96 | 0.96 | 0.96 | 1.00 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 9. | Ele. Bulb (Philips) | Each | 9.74 | 9.78 | 9.78 | 9.81 | 9.81 | 9.81 | 9.94 | 10.04 | 10.11 | 10.11 | 10.21 | 10.21 |
| 10. | Torch Battery (Everedy 950) | " | 7.00 | 7.16 | 7.16 | 7.20 | 7.20 | 7.20 | 7.27 | 7.25 | 7.29 | 7.30 | 7.38 | 7.41 |
| 11. | Paper | 24 sheets | 8.44 | 8.44 | 8.58 | 8.58 | 8.61 | 8.65 | 8.78 | 8.65 | 8.61 | 8.61 | 8.90 | 8.90 |
| 12. | Fire Wood (Local) | Qtl | 145.00 | 145.00 | 145.00 | 145.83 | 145.83 | 149.17 | 150.00 | 150.00 | 150.00 | 148.33 | 148.33 | 150.00 |
| 13. | Cement (Sankar-paper bag) | Each | 176.69 | 173.77 | 174.38 | 177.27 | 177.85 | 177.67 | 177.67 | 177.25 | 176.83 | 175.58 | 171.21 | 174.33 |

Source : Department of Economics and Statistics, Govt. of Kerala

Appendix - 3.3

Consumer Price Index (Cost of Living Index) Numbers for Agricultural and Industrial Workers - Kerala 1997

(Base 1970=100)

| Sl.No. | Centre | 1997 | | | | | | | | | | | | |
|--------|--------------------|----------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|
| | | December | January | February | March | April | May | June | July | August | September | October | November | December |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
| 1. | Thiruvananthapuram | 875 | 882 | 888 | 892 | 898 | 901 | 911 | 922 | 934 | 939 | 946 | 954 | 984 |
| 2. | Kollam | 897 | 906 | 913 | 918 | 923 | 928 | 938 | 947 | 955 | 959 | 965 | 971 | 976 |
| 3. | Punalur | 815 | 823 | 830 | 837 | 845 | 851 | 882 | 874 | 887 | 892 | 895 | 902 | 912 |
| 4. | Alappuzha | 874 | 882 | 889 | 894 | 898 | 905 | 914 | 922 | 931 | 933 | 936 | 939 | 945 |
| 5. | Kottayam | 871 | 878 | 884 | 887 | 891 | 898 | 907 | 917 | 926 | 927 | 928 | 930 | 938 |
| 6. | Mundakkayam | 855 | 863 | 870 | 874 | 877 | 880 | 886 | 895 | 902 | 904 | 906 | 909 | 914 |
| 7. | Munnar | 831 | 840 | 846 | 850 | 855 | 861 | 868 | 875 | 881 | 886 | 890 | 896 | 900 |
| 8. | Ernakulam | 858 | 868 | 873 | 876 | 879 | 884 | 891 | 898 | 904 | 904 | 906 | 911 | 918 |
| 9. | Chalakyudy | 883 | 890 | 897 | 903 | 908 | 913 | 925 | 935 | 945 | 946 | 951 | 957 | 962 |
| 10. | Thrissur | 870 | 878 | 885 | 889 | 893 | 898 | 907 | 914 | 920 | 924 | 925 | 927 | 932 |
| 11. | Palakkad | 880 | 888 | 894 | 898 | 901 | 906 | 916 | 926 | 932 | 936 | 937 | 941 | 946 |
| 12. | Malappuram | 893 | 900 | 908 | 909 | 913 | 917 | 925 | 935 | 940 | 941 | 942 | 944 | 949 |
| 13. | Kozhikode | 868 | 878 | 883 | 888 | 890 | 894 | 900 | 907 | 914 | 915 | 916 | 919 | 924 |
| 14. | Meppady | 901 | 908 | 915 | 922 | 930 | 935 | 945 | 952 | 960 | 964 | 968 | 973 | 979 |
| 15. | Kannur | 883 | 891 | 898 | 902 | 908 | 910 | 918 | 928 | 935 | 939 | 944 | 948 | 952 |

Source : Department of Economics and Statistics, Govt. of Kerala

Index Number Of Wholesale Prices In India By Groups And Sub Groups (Averages)

(Base: 1981 - 82 = 100)

| Sl.No. | Item | Weight | 1987 | | | | | | | | | | | | | | |
|--------|---------------------------------|--------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|--------|---------|
| | | | April | May | June | July | August | September | October | November | December | January | February | March | April | May(P) | June(P) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) |
| | All commodities | 100.00 | 30.2 | 304.7 | 305.9 | 313.3 | 315.1 | 317.1 | 318.7 | 318.4 | 320.7 | 319.8 | 321.4 | 320.7 | 322.3 | 323.1 | 323.9 |
| 1. | Primary articles | 32.295 | 314.0 | 318.6 | 321.1 | 327.7 | 327.1 | 330.0 | 332.5 | 333.0 | 338.9 | 336.5 | 337.2 | 331.8 | 332.6 | 333.4 | 333.0 |
| 1. | Food Articles | 17.386 | 352.1 | 361.2 | 364.5 | 374.3 | 370.0 | 374.2 | 382.6 | 384.9 | 390.6 | 387.3 | 389.8 | 380.8 | 381.9 | 390.6 | 380.0 |
| i. | Food grains | 7.917 | 325.8 | 326.6 | 335.5 | 343.1 | 352.0 | 355.8 | 358.4 | 370.5 | 372.8 | 372.1 | 374.6 | 374.0 | 369.1 | 367.1 | 360.1 |
| | (a) Cereals | 6.824 | 306.8 | 306.9 | 316.6 | 325.9 | 334.7 | 341.3 | 343.5 | 356.7 | 359.9 | 359.8 | 364.5 | 364.2 | 357.3 | 353.5 | 347.8 |
| | (b) Pulses | 1.093 | 444.6 | 449.1 | 454.1 | 450.4 | 459.7 | 446.4 | 451.6 | 456.7 | 453.4 | 449.4 | 438.1 | 435.6 | 443.1 | 451.4 | 437.5 |
| ii. | Fruits and Vegetables | 4.089 | 373.3 | 391.7 | 381.8 | 401.4 | 371.8 | 384.8 | 413.2 | 407.6 | 413.8 | 396.9 | 389.5 | 359.9 | 383.9 | 357.6 | 353.0 |
| iii. | Milk | 1.961 | 314.7 | 322.9 | 323.1 | 321.7 | 313.8 | 317.3 | 317.9 | 319.7 | 316.0 | 316.0 | 323.4 | 324.6 | 330.5 | 342.0 | 349.8 |
| iv. | Egg, Fish & Meat | 1.783 | 374.7 | 386.5 | 393.2 | 402.8 | 409.2 | 403.5 | 404.1 | 401.7 | 427.1 | 428.9 | 444.7 | 436.1 | 440.9 | 436.7 | 437.0 |
| v. | Condiments & spices | 0.947 | 478.1 | 501.3 | 517.3 | 523.2 | 519.0 | 522.3 | 529.0 | 495.7 | 516.4 | 529.4 | 521.3 | 507.7 | 508.3 | 516.1 | 532.1 |
| vi. | Other Food Articles | 0.689 | 404.7 | 429.6 | 428.1 | 442.2 | 421.3 | 406.4 | 406.4 | 406.4 | 401.8 | 406.4 | 431.0 | 423.9 | 455.8 | 452.4 | 499.7 |
| 2. | Non-Food Articles | 10.081 | 324.1 | 323.4 | 325.5 | 328.9 | 333.9 | 336.4 | 329.6 | 327.4 | 336.1 | 334.3 | 331.8 | 330.6 | 331.1 | 335.8 | 335.6 |
| i. | Fibres | 1.791 | 338.9 | 343.2 | 339.9 | 343.3 | 354.7 | 357.6 | 344.3 | 338.7 | 329.5 | 331.7 | 327.7 | 328.5 | 335.6 | 341.8 | 344.8 |
| ii. | Oil seeds | 3.861 | 271.6 | 275.2 | 278.1 | 288.8 | 298.7 | 301.9 | 285.8 | 283.4 | 294.3 | 289.2 | 283.2 | 278.6 | 278.0 | 291.7 | 294.0 |
| iii. | Other non-food Articles | 4.429 | 363.8 | 357.3 | 361.1 | 358.0 | 356.2 | 357.9 | 361.9 | 361.1 | 375.3 | 374.6 | 375.9 | 376.7 | 375.5 | 371.8 | 388.0 |
| 3 | Minerals | 4.828 | 155.3 | 155.3 | 155.3 | 157.7 | 158.1 | 157.8 | 157.9 | 158.0 | 158.4 | 158.3 | 158.9 | 158.3 | 158.1 | 158.3 | 158.3 |
| i. | Petroleum Crude & Natural gas | 4.274 | 130.2 | 130.2 | 130.2 | 132.8 | 132.8 | 132.8 | 132.8 | 133.1 | 133.1 | 133.1 | 133.1 | 133.1 | 133.1 | 133.2 | 133.2 |
| ii. | Fuel, Power, Light & Lubricants | 10.663 | 295.1 | 295.2 | 295.3 | 328.2 | 330.3 | 330.3 | 333.2 | 334.1 | 334.1 | 334.1 | 343.0 | 344.1 | 349.2 | 347.8 | 349.2 |
| iii. | Manufactured Products | 57.042 | 297.9 | 298.6 | 299.3 | 302.3 | 305.4 | 307.4 | 308.2 | 307.2 | 307.9 | 307.6 | 308.3 | 310.1 | 311.5 | 312.6 | 314.1 |

P - Provisional

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) |
|------|----------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| I | Manufactured products (item-wise) | | | | | | | | | | | | | | | | |
| i. | Food products | 10.143 | 274.1 | 275.5 | 282.1 | 291.7 | 300.6 | 306.6 | 306.8 | 304.0 | 306.9 | 304.4 | 305.6 | 309.9 | 307.9 | 315.4 | 318.6 |
| ii. | Diary products | 0.642 | 323.3 | 324.9 | 331.7 | 335.9 | 337.9 | 338.6 | 340.0 | 352.0 | 355.2 | 352.8 | 350.3 | 349.0 | 350.8 | 353.3 | 355.9 |
| iii. | Sugar, Khandasari & gur | 4.05 | 225.4 | 231.7 | 242.2 | 252.4 | 261.1 | 267.9 | 270.2 | 254.0 | 249.1 | 247.1 | 250.2 | 261.6 | 268.0 | 287.1 | 300.3 |
| 2. | Beverages, Tobacco & Tobacco products | 2.149 | 381.3 | 388.1 | 388.8 | 390.5 | 393.6 | 393.6 | 393.6 | 393.6 | 395.1 | 395.5 | 395.5 | 405.0 | 433.0 | 427.3 | 438.3 |
| 3. | Textiles | 11.545 | 305.8 | 305.6 | 301.9 | 302.0 | 301.8 | 303.9 | 305.4 | 304.3 | 304.0 | 303.9 | 304.6 | 306.0 | 307.2 | 306.3 | 306.2 |
| 4. | Peppr & Pepper products | 1.988 | 373.5 | 375.2 | 376.7 | 378.7 | 378.5 | 378.2 | 378.4 | 378.4 | 378.4 | 379.8 | 378.7 | 373.6 | 370.1 | 371.3 | 370.0 |
| 5. | Leather & Leather products | 1.018 | 282.5 | 282.5 | 282.5 | 282.5 | 279.5 | 279.5 | 279.5 | 279.5 | 279.5 | 281.2 | 282.9 | 282.9 | 285.3 | 282.7 | 284.5 |
| 6. | Rubber & Plastic products | 1.592 | 240.4 | 240.4 | 240.4 | 240.5 | 245.3 | 245.3 | 246.6 | 246.6 | 246.9 | 246.9 | 246.8 | 244.3 | 246.6 | 246.0 | 246.0 |
| 7. | Chemical and Chemical products | 7.355 | 256.2 | 257.3 | 256.4 | 255.5 | 256.2 | 257.9 | 260.8 | 260.9 | 261.0 | 261.6 | 263.6 | 265.0 | 265.7 | 265.6 | 268.0 |
| i. | Fertilisers | 1.748 | 212.5 | 212.4 | 211.8 | 209.4 | 208.7 | 208.7 | 210.2 | 210.2 | 210.5 | 210.8 | 213.9 | 222.4 | 222.6 | 223.4 | 224.4 |
| ii. | Pesticides | 0.202 | 281.6 | 281.6 | 281.6 | 281.6 | 281.6 | 281.6 | 281.6 | 281.6 | 281.6 | 281.6 | 282.9 | 282.5 | 281.9 | 281.9 | 281.9 |
| iii. | Drugs and Medicines | 1.065 | 242.2 | 242.2 | 242.1 | 241.8 | 242.1 | 242.1 | 241.5 | 241.3 | 241.3 | 241.4 | 242.3 | 246.3 | 246.4 | 247.2 | 256.0 |
| 8. | Non-Metallic Mineral Products | 2.477 | 323.1 | 322.6 | 323.6 | 326.0 | 345.4 | 341.7 | 344.8 | 338.3 | 337.1 | 336.1 | 336.9 | 339.3 | 343.3 | 349.9 | 348.7 |
| 9. | Basic Metals, Alloys and metal products | 7.832 | 333.9 | 333.9 | 334.2 | 338.4 | 341.0 | 343.7 | 341.7 | 341.3 | 341.4 | 341.6 | 341.9 | 342.3 | 343.6 | 343.3 | 345.5 |
| 10. | Machinery and Machine tools | 6.268 | 288.7 | 289.0 | 290.9 | 294.3 | 295.0 | 295.5 | 297.4 | 297.2 | 298.1 | 298.5 | 297.4 | 300.2 | 299.9 | 300.1 | 300.1 |
| i. | Motor Vehicles, Scooters, Bicycles and parts | 2.431 | 255.7 | 256.7 | 257.4 | 260.3 | 280.9 | 260.9 | 280.9 | 261.1 | 263.2 | 264.8 | 285.7 | 266.0 | 266.0 | 266.0 | 266.0 |
| ii. | Other Miscellaneous Manufacturing Industries | 0.972 | 169.7 | 169.7 | 171.0 | 176.5 | 177.0 | 177.0 | 176.9 | 176.9 | 177.0 | 177.0 | 176.9 | 177.1 | 178.6 | 179.2 | 179.1 |

Source : RBI Bulletin

Appendix - 3.5

Consumer Price Index Numbers for Industrial Workers - All India and Selected Centres

(Base:1982 = 100)

| | 1996 | | | | | | | | | | | | 1997 | | | | | | | | | | | | | |
|------------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|
| | July | August | September | October | November | December | January | February | March | April | May | June | July | July | August | September | October | November | December | January | February | March | April | May | June | July |
| All India | 339 | 343 | 344 | 346 | 349 | 350 | 350 | 350 | 351 | 354 | 354 | 355 | 358 | 359 | 360 | 360 | 360 | 360 | 360 | 361 | 362 | 363 | 364 | 365 | 368 | |
| Ahmedabad | 339 | 343 | 345 | 345 | 347 | 348 | 348 | 353 | 363 | 363 | 352 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 |
| Aluva | 335 | 348 | 355 | 353 | 358 | 361 | 362 | 362 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 |
| Bangalore | 334 | 340 | 341 | 344 | 349 | 351 | 352 | 351 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 | 356 |
| Mumbai | 364 | 386 | 369 | 371 | 374 | 380 | 381 | 386 | 383 | 383 | 396 | 391 | 391 | 391 | 391 | 391 | 391 | 391 | 391 | 391 | 391 | 391 | 391 | 391 | 391 | 391 |
| Culcutta | 349 | 354 | 361 | 356 | 358 | 356 | 345 | 342 | 346 | 346 | 352 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 |
| Coimbatore | 337 | 332 | 333 | 338 | 344 | 344 | 355 | 354 | 346 | 346 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 | 348 |
| Delhi | 347 | 350 | 353 | 365 | 372 | 366 | 364 | 368 | 369 | 369 | 372 | 373 | 373 | 373 | 373 | 373 | 373 | 373 | 373 | 373 | 373 | 373 | 373 | 373 | 373 | 373 |
| Hyderabad | 310 | 313 | 314 | 318 | 319 | 319 | 323 | 325 | 328 | 328 | 328 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 |
| Jamshedpur | 324 | 329 | 331 | 337 | 340 | 337 | 333 | 333 | 337 | 337 | 338 | 338 | 338 | 338 | 338 | 338 | 338 | 338 | 338 | 338 | 338 | 338 | 338 | 338 | 338 | 338 |
| Madras | 367 | 389 | 364 | 367 | 370 | 377 | 378 | 376 | 375 | 375 | 360 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 377 |
| Madhura | 353 | 352 | 356 | 359 | 367 | 371 | 379 | 383 | 358 | 358 | 363 | 361 | 361 | 361 | 361 | 361 | 361 | 361 | 361 | 361 | 361 | 361 | 361 | 361 | 361 | 361 |
| Mundakayam | 368 | 361 | 360 | 358 | 362 | 369 | 362 | 371 | 371 | 371 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 | 372 |
| Nagpur | 346 | 347 | 360 | 360 | 359 | 361 | 366 | 374 | 374 | 374 | 374 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 | 364 |

Source : RBI Bulletin

Appendix - 3.6

Consumer Price Index Numbers For Agricultural labourers - State Wise

(Base: July 1986 - June 1987=100)

| | 1996 | | | | | | | | | | | | 1997 | | | | |
|-----------------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|--|--|--|--|
| | July | August | September | October | November | December | January | February | March | April | May | June | July | | | | |
| All India | 252 | 256 | 259 | 260 | 262 | 263 | 262 | 263 | 262 | 281 | 258 | 259 | 261 | | | | |
| Andra Pradesh | 254 | 265 | 267 | 269 | 272 | 271 | 271 | 270 | 269 | 269 | 269 | 271 | 271 | | | | |
| Assam | 254 | 257 | 259 | 261 | 262 | 261 | 260 | 259 | 257 | 259 | 261 | 263 | 266 | | | | |
| Bihar | 236 | 243 | 248 | 252 | 255 | 255 | 254 | 259 | 260 | 254 | 245 | 241 | 248 | | | | |
| Gujrat | 252 | 255 | 254 | 253 | 253 | 254 | 251 | 251 | 254 | 256 | 259 | 260 | 264 | | | | |
| Jammu & Kashmir | 241 | 245 | 253 | 253 | 252 | 253 | 250 | 252 | 255 | 259 | 255 | 252 | 253 | | | | |
| Karnataka | 264 | 265 | 266 | 264 | 266 | 266 | 269 | 267 | 265 | 267 | 269 | 270 | 268 | | | | |
| Kerala | 274 | 277 | 274 | 275 | 280 | 283 | 285 | 288 | 284 | 284 | 282 | 290 | 292 | | | | |
| Madhyapradesh | 253 | 257 | 261 | 261 | 262 | 266 | 263 | 264 | 263 | 260 | 261 | 261 | 264 | | | | |
| Maharashtra | 259 | 260 | 261 | 259 | 257 | 257 | 258 | 255 | 252 | 250 | 253 | 256 | 256 | | | | |
| Orissa | 243 | 248 | 253 | 258 | 256 | 259 | 254 | 254 | 255 | 257 | 256 | 259 | 263 | | | | |
| Punjab | 252 | 256 | 262 | 264 | 263 | 265 | 263 | 265 | 266 | 270 | 265 | 263 | 265 | | | | |
| Rajasthan | 251 | 255 | 255 | 254 | 257 | 265 | 267 | 265 | 264 | 265 | 264 | 268 | 267 | | | | |
| Tamil Nadu | 256 | 256 | 258 | 259 | 260 | 267 | 269 | 267 | 261 | 259 | 257 | 254 | 252 | | | | |
| Uttar Pradesh | 251 | 256 | 262 | 265 | 266 | 270 | 270 | 273 | 276 | 267 | 255 | 252 | 260 | | | | |
| Bengal | 242 | 246 | 251 | 253 | 251 | 251 | 246 | 244 | 241 | 245 | 244 | 245 | 249 | | | | |

Source : RBI Bulletin

Appendix - 3.7

Consumer Price Index Numbers For Urban Non-Manual Employees - All India & Selected Centres

(Base: 1984-85 = 100)

| | 1996 | | | | | | | | | | | | |
|--------------------|------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|
| | 1995 Dece. | January | February | March | April | May | June | July | August | September | October | November | December |
| All India | 262 | 262 | 263 | 264 | 267 | 271 | 274 | 281 | 283 | 284 | 286 | 288 | 289 |
| Mumbai | 262 | 263 | 264 | 267 | 270 | 273 | 277 | 284 | 285 | 286 | 286 | 289 | 291 |
| Dalhi | 249 | 248 | 248 | 251 | 253 | 254 | 256 | 264 | 268 | 271 | 273 | 273 | 272 |
| Culcutta | 256 | 253 | 251 | 252 | 255 | 259 | 284 | 270 | 273 | 272 | 271 | 272 | 271 |
| Chennai | 286 | 288 | 287 | 289 | 291 | 297 | 303 | 308 | 310 | 307 | 310 | 316 | 320 |
| Hydrabad | 279 | 280 | 277 | 278 | 282 | 286 | 289 | 295 | 296 | 298 | 299 | 300 | 302 |
| Bangalora | 262 | 265 | 266 | 267 | 270 | 274 | 277 | 285 | 288 | 287 | 287 | 289 | 291 |
| Lucknow | 245 | 247 | 248 | 250 | 253 | 257 | 262 | 272 | 273 | 277 | 277 | 277 | 275 |
| Ahamadabad | 241 | 240 | 240 | 241 | 243 | 245 | 249 | 250 | 251 | 253 | 253 | 253 | 253 |
| Jaipur | 262 | 265 | 267 | 271 | 273 | 275 | 275 | 288 | 294 | 302 | 302 | 303 | 304 |
| Patna | 268 | 266 | 266 | 270 | 273 | 274 | 276 | 281 | 285 | 287 | 287 | 290 | 290 |
| Srinagar | 258 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 267 | 279 | 277 |
| Thiruvananthapuram | 248 | 252 | 256 | 257 | 259 | 263 | 265 | 275 | 276 | 275 | 277 | 277 | 280 |
| Cuttak | 252 | 253 | 251 | 250 | 255 | 258 | 261 | 287 | 270 | 272 | 274 | 277 | 277 |
| Bhopal | 258 | 258 | 258 | 260 | 263 | 266 | 272 | 278 | 279 | 278 | 278 | 280 | 288 |
| Chandigar | 283 | 283 | 283 | 286 | 288 | 288 | 290 | 301 | 299 | 306 | 308 | 309 | 309 |
| Shillong | 276 | 277 | 275 | 278 | 281 | 283 | 284 | 292 | 295 | 297 | 298 | 299 | 301 |

53

Whole Sale Price Index Of Agricultural Commodities 1981-97

(Base: 1952-53 = 100)

| Group | Weight | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997* |
|-----------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| A. Food Crops | 63.5 | 417 | 413 | 499 | 497 | 582 | 679 | 709 | 696 | 725 | 835 | 936 | 984 | 1310 | 1384 | 1609 | 1731 | 1806 |
| Rice | 40.4 | 319 | 319 | 406 | 442 | 448 | 501 | 529 | 533 | 544 | 592 | 638 | 638 | 837 | 957 | 1162 | 1162 | 1162 |
| Condiments and Spices | 10.4 | 442 | 439 | 548 | 854 | 637 | 1324 | 1435 | 775 | 754 | 1098 | 1542 | 1688 | 1895 | 1779 | 1960 | 2315 | 2784 |
| Fruits and Vegetables | 10.7 | 728 | 740 | 779 | 913 | 1008 | 759 | 858 | 1199 | 1342 | 1450 | 1449 | 1571 | 2434 | 2534 | 2978 | 3235 | 3185 |
| Molasses | 2.0 | 606 | 412 | 626 | 629 | 709 | 689 | 626 | 881 | 909 | 1082 | 1061 | 1161 | 1803 | 1781 | 1477 | 1627 | 2338 |
| B. Non-Food Crops | 36.5 | 680 | 672 | 930 | 1477 | 966 | 1009 | 1324 | 1428 | 1215 | 1365 | 1832 | 2062 | 1966 | 1679 | 1864 | 2155 | 2734 |
| Oil Seeds | 25.5 | 819 | 796 | 1112 | 1863 | 1142 | 1227 | 1620 | 1795 | 1411 | 1562 | 2240 | 2543 | 2368 | 1915 | 2029 | 2395 | 3237 |
| Plantation Crops | 11.0 | 358 | 386 | 508 | 585 | 560 | 509 | 568 | 578 | 761 | 910 | 888 | 948 | 1038 | 1134 | 1485 | 1599 | 1570 |
| C. All Crops | 100.00 | 513 | 507 | 656 | 918 | 722 | 800 | 933 | 963 | 904 | 1028 | 1263 | 1377 | 1550 | 1492 | 1702 | 1876 | 2145 |

Source : Department of Economics and Statistics, Govt. of Kerala

* Average from January to June (6 months) only

Appendix - 4.1

**District-wise Actual and Normal Rainfall (in mm)
with Percentage Departures from Normal Rainfall for 1997**

| Sl. No. | District | Actual | Normal | Percentage Departure |
|---------|--------------------|--------|--------|----------------------|
| 1. | Thiruvananthapuram | 1864.9 | 2203.8 | -15 |
| 2. | Kollam | 2636.5 | 2555.1 | 3 |
| 3. | Alappuzha | 3177.3 | 2965.4 | 7 |
| 4. | Pathanamthitta | 3098.7 | 3133.8 | -1 |
| 5. | Kottayam | 3147.7 | 3130.3 | 1 |
| 6. | Idukki | 3890.1 | 3379.4 | 15 |
| 7. | Ernakulam | 3512.2 | 3274.3 | 7 |
| 8. | Thrissur | 3099.0 | 3262.0 | -5 |
| 9. | Palakkad | 2414.1 | 2389.8 | 1 |
| 10. | Kozhikoda | 4059.6 | 3667.9 | 11 |
| 11. | Malappuram | 3460.1 | 2906.1 | 19 |
| 12. | Wayanad | 2836.0 | 3590.8 | -21 |
| 13. | Kannur | 3976.9 | 3465.0 | 15 |
| 14. | Kasargoda | 3723.3 | 3581.3 | 4 |
| | State average | 3206.9 | 3107.5 | 3 |

--Source : Meteorological Centre, Thiruvananthapuram

Appendix-4.2
Month-wise Distribution of Normal Rainfall and Average Rainfall for last 10 years (in mm)

| Month | Normal Rainfall | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | Deviation from normal rainfall during 1997 |
|----------------|--------------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------------------------------|
| | | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | |
| January | 14.6 | 1 | 6 | 15 | 14 | 3.4 | 0.0 | 32.5 | 11.0 | 12.6 | 2.1 | -12.5 |
| February | 16.6 | 19 | 0 | 5 | 6 | 1.0 | 18.1 | 31.0 | 7.2 | 8.4 | 3.8 | -12.8 |
| March | 39.8 | 19 | 19 | 17 | 34 | 0.1 | 21.0 | 20.3 | 41.3 | 13.5 | 37.5 | -2.3 |
| April | 113.4 | 144 | 107 | 42 | 98 | 44.8 | 70.6 | 145.7 | 173.6 | 134.4 | 62.9 | -50.6 |
| May | 262.9 | 142 | 153 | 489 | 119 | 226.1 | 169.5 | 151.9 | 348.5 | 71.0 | 134.0 | -128.9 |
| June | 697.1 | 585 | 725 | 603 | 1084 | 813.3 | 688.8 | 836.2 | 531.8 | 592.1 | 551.0 | -146.1 |
| July | 764.9 | 608 | 577 | 652 | 837 | 802.3 | 804.6 | 941.0 | 719.7 | 680.0 | 941.9 | +177.0 |
| August | 439.4 | 427 | 354 | 349 | 471 | 503.6 | 293.2 | 478.9 | 458.2 | 337.0 | 520.4 | + 81.0 |
| September | 252.1 | 498 | 294 | 106 | 50 | 296.5 | 91.7 | 205.8 | 293.3 | 329.4 | 291.0 | + 38.9 |
| October | 297.0 | 76 | 313 | 328 | 291 | 318.4 | 442.7 | 448.5 | 208.2 | 320.6 | 284.5 | - 12.5 |
| November | 166.1 | 79 | 87 | 174 | 100 | 336.7 | 169.1 | 183.7 | 180.6 | 97.2 | 284.7 | +118.6 |
| December | 43.0 | 25 | 7 | 2 | 3 | 4.8 | 49.3 | 42.5 | 0.1 | 88.4 | 92.7 | + 49.7 |
| Total | 3107.0 | 1653 | 2642 | 2780 | 3106 | 3353 | 2818.6 | 3497.9 | 2973.5 | 2884.6 | 3206.5 | + 99.5 |
| Average | 258.9 | 221 | 220 | 232 | 259 | 279.41 | 234.9 | 291.5 | 247.79 | 223.71 | 267.2 | + 8.3 |

Source : Meteorological Centre, Thiruvananthapuram.

Appendix-4.3

District-wise Monthly Rainfall in mm for 1997

| Sl.No. | District | January | February | March | April | May | June | July | August | September | October | November | December |
|--------|--------------------|---------|----------|-------|-------|-------|--------|--------|--------|-----------|---------|----------|----------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| 1. | Thiruvananthapuram | 2.9 | 10.1 | 17.8 | 63.1 | 124.6 | 265.2 | 221.4 | 122.3 | 396.5 | 227.6 | 298.3 | 112.9 |
| 2. | Kollam | 1.3 | 4.6 | 75.6 | 155.4 | 229.9 | 344.1 | 431.2 | 268.5 | 308.2 | 432.2 | 275.1 | 110.4 |
| 3. | Alappuzha | 2.1 | 2.7 | 67.2 | 94.7 | 156.7 | 463.8 | 702.7 | 425.4 | 481.3 | 362.9 | 256.0 | 161.8 |
| 4. | Pathanamthitta | 0.0 | 13.4 | 87.8 | 80.3 | 246.2 | 264.5 | 654.4 | 400.0 | 417.2 | 456.0 | 372.6 | 106.3 |
| 5. | Kottayam | 1.0 | 0.0 | 41.9 | 113.8 | 206.3 | 466.4 | 705.3 | 462.3 | 359.8 | 389.1 | 293.8 | 127.1 |
| 6. | Idukki | 3.9 | 0.0 | 59.3 | 146.1 | 175.9 | 393.0 | 1111.8 | 713.8 | 359.8 | 357.4 | 421.2 | 142.6 |
| 7. | Eranakulam | 5.8 | 1.0 | 48.0 | 86.3 | 130.1 | 550.6 | 942.6 | 471.9 | 421.4 | 329.0 | 383.8 | 144.2 |
| 8. | Thrissur | 0.0 | 0.0 | 0.7 | 6.9 | 84.0 | 693.9 | 946.1 | 547.2 | 315.0 | 213.9 | 216.4 | 71.4 |
| 9. | Palakkad | 0.0 | 14.1 | 36.8 | 30.8 | 125.1 | 338.3 | 813.1 | 378.7 | 152.1 | 215.9 | 282.5 | 26.7 |
| 10. | Kozhikode | 1.6 | 0.0 | 9.5 | 1.0 | 67.1 | 1084.3 | 1495.7 | 733.0 | 159.0 | 207.4 | 238.3 | 62.7 |
| 11. | Malappuram | 3.5 | 0.0 | 19.6 | 29.0 | 111.8 | 569.0 | 1173.4 | 575.7 | 244.4 | 317.4 | 363.9 | 52.4 |
| 12. | Wayanad | 7.0 | 7.3 | 46.3 | 58.7 | 156.1 | 428.5 | 873.3 | 571.9 | 174.5 | 267.6 | 195.7 | 53.1 |
| 13. | Kannur | 0.1 | 0.0 | 8.0 | 9.9 | 45.6 | 923.0 | 1571.1 | 799.5 | 156.3 | 134.7 | 259.8 | 68.9 |
| 14. | Kasaragode | 0.0 | 0.0 | 6.1 | 4.3 | 16.5 | 929.6 | 1545.1 | 815.4 | 128.3 | 92.6 | 127.9 | 57.5 |

Source : Meteorological Centre, Thiruvananthapuram.

Index of Area, Production and Productivity of Crops in Kerala. Base—Average of Triennium ending 1979-80

| Sl. No. | Crops | Area | | | | | | | | | | Production | | | | | | | | | |
|---------|-------------------------|---------------------------------------|---------|---------|---------|---------|---------|---------|---------------------------------------|---------|---------|------------|---------|---------|---------|----|----|--|--|--|--|
| | | Average of 3 years 1976-77 to 1978-79 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | Average of 3 years 1976-77 to 1978-79 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | | | | |
| | All crops | 101.48 | 104.03 | 104.19 | 103.73 | 104.09 | 103.79 | 105.98 | 100.17 | 127.90 | 132.67 | 138.56 | 140.28 | 144.29 | 150.22 | | | | | | |
| A. | Food Grains(1+2) | 102.55 | 67.22 | 67.00 | 63.18 | 62.55 | 58.99 | 53.93 | 98.67 | 88.46 | 84.47 | 78.15 | 75.87 | 74.25 | 67.92 | | | | | | |
| 1. | Cereals | 102.59 | 67.36 | 67.10 | 63.38 | 63.82 | 59.00 | 53.82 | 98.85 | 82.39 | 84.35 | 78.07 | 75.83 | 74.15 | 67.77 | | | | | | |
| 2. | Pulses | 101.53 | 64.15 | 64.72 | 58.42 | 56.25 | 58.75 | 56.56 | 87.06 | 87.60 | 92.40 | 82.94 | 78.63 | 81.27 | 77.71 | | | | | | |
| B. | Non Food Grains(3 to 8) | 101.00 | 120.96 | 121.30 | 122.38 | 123.21 | 124.40 | 129.92 | 100.52 | 138.44 | 143.85 | 152.56 | 155.21 | 160.53 | 169.30 | | | | | | |
| 3. | Oil Seeds | 101.66 | 127.26 | 129.34 | 130.23 | 133.84 | 134.09 | 147.22 | 103.48 | 148.67 | 164.11 | 166.10 | 170.77 | 165.01 | 184.19 | | | | | | |
| 4. | Plantation Crops | 95.04 | 175.30 | 175.22 | 176.93 | 178.49 | 181.26 | 181.60 | 93.54 | 194.74 | 211.52 | 238.16 | 249.85 | 263.73 | 278.38 | | | | | | |
| 5. | Condiments & Spices | 100.65 | 127.65 | 129.45 | 130.99 | 134.86 | 136.14 | 128.85 | 89.40 | 148.77 | 132.32 | 145.01 | 172.59 | 184.11 | 165.89 | | | | | | |
| 6. | Drugs and Narcotics | 82.29 | 77.83 | 32.66 | 28.38 | 32.03 | 27.50 | 28.34 | 89.54 | 36.58 | 29.82 | 29.39 | 31.22 | 28.21 | 36.27 | | | | | | |
| 7. | Fruits and Vegetables | 103.20 | 81.40 | 79.36 | 79.96 | 76.03 | 77.94 | 82.28 | 105.94 | 88.32 | 87.62 | 87.50 | 70.93 | 84.47 | 86.62 | | | | | | |
| 8. | Miscellaneous Crops | 103.59 | 140.28 | 141.77 | 154.40 | 143.57 | 125.78 | 140.84 | 98.02 | 106.87 | 120.58 | 126.05 | 128.18 | 77.31 | 130.26 | | | | | | |

Source : Directorate of Economics and Statistics

Appendix - 4.4 (contd....)

| Sl.No. | Crops | average of 3 Years 1976-77 to 1978-79 | Productivity | | | | | | | | | | |
|--------|-----------------------------|---------------------------------------------|--------------|--------|--------|--------|--------|--------|----|--|--|--|--|
| | | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | | |
| 1 | 2 | | | | | | | | | | | | |
| | All Crops | 98.71 | 111.14 | 114.94 | 117.51 | 119.91 | 120.44 | 121.66 | | | | | |
| | A. Food grains(1+2) | 96.22 | 122.61 | 126.10 | 123.60 | 121.14 | 126.03 | 126.25 | | | | | |
| | 1. Cereals | 96.35 | 122.40 | 125.84 | 123.31 | 120.85 | 125.84 | 126.08 | | | | | |
| | 2. Pulses | 85.25 | 136.58 | 142.70 | 141.97 | 139.85 | 138.30 | 137.33 | | | | | |
| | B. Non Food Grains (3 to 8) | 99.52 | 108.48 | 112.35 | 116.10 | 119.63 | 119.14 | 120.60 | | | | | |
| | 3. Oil Seeds | 101.79 | 118.11 | 125.37 | 126.39 | 125.81 | 121.41 | 123.31 | | | | | |
| | 4. Plantation Crops | 98.74 | 116.40 | 120.30 | 138.96 | 145.82 | 152.39 | 161.64 | | | | | |
| | 5. Condiments & Spices | 88.82 | 111.92 | 108.32 | 109.09 | 127.47 | 130.17 | 124.95 | | | | | |
| | 6. Drugs and Narcotics | 108.85 | 53.67 | 104.52 | 127.12 | 111.86 | 115.82 | 170.06 | | | | | |
| | 7. Fruits and Vegetables | 102.65 | 91.45 | 93.61 | 93.06 | 93.28 | 92.95 | 90.31 | | | | | |
| | 8. Miscellaneous crops | 94.62 | 68.35 | 76.52 | 71.99 | 81.55 | 52.55 | 88.80 | | | | | |

Source : Directorate of Economics and Statistics

Appendix-4.5
District-wise Number and Area of Total Operational Holdings in Kerala (1990-91)

| Sl. No. | District | Number | % to Total | Area (ha) | % to Total | Average size of holdings (ha) |
|---------|--------------------|---------|------------|-----------|------------|-------------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1. | Thiruvananthapuram | 628868 | 11.60 | 106773 | 5.93 | 0.16 |
| 2. | Kollam | 482211 | 8.90 | 79645 | 5.43 | 0.20 |
| 3. | Pathanamthitta | 249967 | 4.61 | 89791 | 4.98 | 0.33 |
| 4. | Alappuzha | 403973 | 7.45 | 83974 | 4.66 | 0.20 |
| 5. | Kottayam | 348017 | 6.42 | 146533 | 8.13 | 0.41 |
| 6. | Idukki | 244830 | 4.52 | 204127 | 11.33 | 0.57 |
| 7. | Ernakulam | 516296 | 9.53 | 126072 | 7.00 | 0.23 |
| 8. | Thrissur | 513861 | 9.48 | 124216 | 6.89 | 0.24 |
| 9. | Palakkad | 434439 | 8.02 | 186730 | 10.36 | 0.42 |
| 10. | Malappuram | 461029 | 8.51 | 140266 | 7.78 | 0.30 |
| 11. | Kozhikode | 462603 | 8.54 | 135415 | 6.96 | 0.26 |
| 12. | Wayanad | 131736 | 2.43 | 100952 | 5.60 | 0.68 |
| 13. | Kannur | 369760 | 6.82 | 166621 | 9.25 | 0.45 |
| 14. | Kasargode | 171599 | 3.17 | 102708 | 5.70 | 0.52 |
| | State | 5419189 | 100.00 | 1801823 | 100.00 | 0.31 |

Source : Agricultural Census 1990-91, Directorate of Economics & Statistics

Appendix-4.6
Number of Operational Holdings and Area Operated by Size Class in Kerala (1990-91)

| Sl. No. | Size of holding (ha) | Number of Operational Holdings | | | | Area Operated (ha) | | | |
|---------|----------------------|--------------------------------|-------|-------------|---------|--------------------|-------|-------------|---------|
| | | Individuals | Joint | Institution | Total | Individual | Joint | Institution | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Below 0.02 | 630075 | 70 | 4979 | 635124 | 8233 | .. | 67 | 8300 |
| 2. | 0.02-0.50 | 3877167 | 2301 | 34814 | 3914282 | 529603 | 463 | 5033 | 535099 |
| 3. | 0.50-1.00 | 460215 | 482 | 4976 | 466673 | 331649 | 332 | 4094 | 336073 |
| | Marginal (1+2+3) | 4967457 | 2853 | 45769 | 5016079 | 8694483 | 795 | 9194 | 879472 |
| 4. | 1.00-2.00 | 276756 | 469 | 3675 | 280900 | 375791 | 648 | 4998 | 381437 |
| | small (4) | 276756 | 469 | 3675 | 280900 | 375791 | 648 | 4998 | 381437 |
| 5. | 2.00-3.00 | 74109 | 171 | 1382 | 75662 | 175541 | 444 | 3144 | 179129 |
| 6. | 3.00-4.00 | 21402 | 138 | 496 | 22036 | 72570 | 416 | 1682 | 74668 |
| | Semi medium (5+6) | 95511 | 309 | 1878 | 97698 | 248111 | 860 | 4826 | 253797 |
| 7. | 4.00-5.00 | 11687 | 86 | 456 | 12229 | 50809 | 420 | 1980 | 53209 |
| 8. | 5.00-7.50 | 6680 | 45 | 357 | 7082 | 39388 | 296 | 2196 | 41880 |
| 9. | 7.50-10.00 | 1894 | 15 | 164 | 2073 | 16103 | 122 | 1441 | 17666 |
| | Medium (7+8+9) | 20261 | 146 | 977 | 21384 | 106300 | 838 | 5617 | 112755 |
| 10. | 10.00-20.00 | 1596 | 30 | 197 | 1823 | 19997 | 401 | 2688 | 23086 |
| 11. | 20 and above | 741 | 20 | 544 | 1305 | 29807 | 561 | 120908 | 151276 |
| | Large (10+11) | 2337 | 50 | 741 | 3128 | 49804 | 962 | 123596 | 174362 |
| | All sizes | 5362322 | 3827 | 53040 | 5419189 | 1649489 | 4103 | 148231 | 1801823 |

Source : Agricultural Census 1990-91, Directorate of Economics and Statistics

Appendix-4.7
**Percentage Distribution of Main Workers as Cultivators, Agricultural
 Labourers, Household Industry Workers and Other Workers
 1981-1991**

| | Persons Males, Females | | Cultivators | | Agri.Labourers | | Household Industry Workers | | Other Workers | |
|--------|---------------------------|-------|-------------|-------|----------------|------|-------------------------------|-------|---------------|------|
| | 1981 | 1991 | 1981 | 1991 | 1981 | 1991 | 1981 | 1991 | 1981 | 1991 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | |
| | Persons | 41.58 | 38.75 | 24.94 | 26.15 | 3.47 | 3.63 | 30.01 | 31.47 | |
| India | Males | 13.70 | 40.01 | 19.56 | 20.90 | 3.18 | 3.33 | 33.56 | 35.76 | |
| | Females | 33.20 | 34.55 | 46.18 | 43.56 | 4.59 | 4.63 | 16.03 | 17.26 | |
| | Persons | 13.07 | 12.38 | 28.23 | 25.66 | 3.69 | 3.92 | 55.01 | 58.04 | |
| Kerala | Males | 15.67 | 14.38 | 23.32 | 22.61 | 2.42 | 2.77 | 58.59 | 60.24 | |
| | Females | 4.95 | 5.74 | 43.55 | 35.76 | 7.64 | 7.76 | 43.86 | 50.74 | |

Source : Census 1991

Appendix - 4.8

Season-wise Area, Production and Productivity of Rice in Kerala

| Season | Area (ha) | | | | | Production (t) | | | | | Productivity (kg/ha) | | | | | | | |
|-------------|-----------|---------|---------|---------|---------|----------------|---------|---------|---------|---------|----------------------|---------|---------|---------|---------|---------|---------|---------|
| | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) |
| Virippu | 218767 | 218751 | 203776 | 198725 | 186676 | 163893 | 401610 | 435794 | 398357 | 327375 | 344238 | 332643 | 1835 | 1992 | 1955 | 1647 | 1844 | 3089 |
| Mundakan | 253981 | 244096 | 236757 | 237788 | 224643 | 210309 | 507525 | 476748 | 461156 | 499877 | 458088 | 414338 | 1998 | 1953 | 1948 | 2102 | 2039 | 2999 |
| Punjja | 68579 | 74761 | 67299 | 66777 | 59831 | 56624 | 151215 | 172336 | 144425 | 147813 | 150730 | 124380 | 2205 | 2305 | 2146 | 2214 | 2519 | 3343 |
| All Seasons | 541327 | 537608 | 507832 | 503290 | 471150 | 430826 | 1060350 | 1084878 | 1003938 | 975065 | 953026 | 871361 | 1959 | 2018 | 1977 | 1937 | 2023 | 2023 |

Source : Directorate of Economics and Statistics.

Appendix-4.9

Coverage of HYV Rice in Kerala 1985-86 to 1996-97

| Sl. No. | Year | Coverage in HYV (ha) | | | | Total | % to total coverage in HYV | | |
|---------|---------|----------------------|-------------------|-----------------|------------------|-------|----------------------------|-----------------|-------|
| | | Virippu (Autumn) | Mundakan (Winter) | Puncha (Summer) | Virippu (Autumn) | | Mundakan (Winter) | Puncha (Summer) | Total |
| 1. | 1985-86 | 83782 | 40650 | 38846 | 163278 | 51.31 | 24.90 | 23.79 | 100 |
| 2. | 1986-87 | 80076 | 44604 | 41253 | 165933 | 48.26 | 26.88 | 24.86 | 100 |
| 3. | 1987-88 | 54760 | 33763 | 31311 | 119744 | 45.70 | 28.20 | 26.10 | 100 |
| 4. | 1988-89 | 62354 | 37971 | 36691 | 137016 | 45.52 | 27.71 | 26.77 | 100 |
| 5. | 1989-90 | 78997 | 38910 | 39718 | 155625 | 50.80 | 23.70 | 25.50 | 100 |
| 6. | 1990-91 | 80025 | 40005 | 42786 | 162816 | 49.15 | 24.57 | 26.28 | 100 |
| 7. | 1991-92 | 73304 | 49745 | 43287 | 166336 | 44.07 | 29.91 | 26.02 | 100 |
| 8. | 1992-93 | 78090 | 45417 | 51589 | 175096 | 44.60 | 25.93 | 29.46 | 100 |
| 9. | 1993-94 | 73243 | 51192 | 47983 | 172418 | 42.48 | 29.69 | 27.83 | 100 |
| 10. | 1994-95 | 74478 | 55576 | 44391 | 174445 | 42.69 | 31.86 | 25.45 | 100 |
| 11. | 1995-96 | 71027 | 51602 | 41247 | 163876 | 43.34 | 31.49 | 25.17 | 100 |
| 12. | 1996-97 | 61532 | 54725 | 37072 | 153329 | 40.13 | 35.69 | 24.18 | 100 |

Source : Directorate of Economics and Statistics.

Appendix - 4.10

District-wise Area, Production and Productivity of Rice in Kerala (1996-97)

| District | Virippu (Autumn) | | | Mundakan (Winter) | | | Punja (Summer) | | | Total | | |
|--------------------|------------------|--------|------|-------------------|--------|------|----------------|--------|------|--------|--------|------|
| | A | P | PY | A | P | PY | A | P | PY | A | P | PY |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Thiruvananthapuram | 6959 | 13207 | 1898 | 6890 | 11497 | 1669 | 112 | 173 | 1545 | 13961 | 24877 | 1782 |
| Kollam | 9847 | 18792 | 1908 | 12375 | 23444 | 1894 | 1 | 1 | 1000 | 22223 | 42237 | 1900 |
| Pathanamthitta | 2426 | 4376 | 1804 | 4262 | 8652 | 2030 | 4297 | 10662 | 2481 | 10985 | 23690 | 2157 |
| Allappuzha | 11204 | 26302 | 2348 | 20103 | 37873 | 1884 | 10140 | 21017 | 2073 | 41447 | 85192 | 2055 |
| Kottayam | 5065 | 10113 | 1997 | 8135 | 17295 | 2126 | 7000 | 16320 | 2331 | 20200 | 43728 | 2165 |
| Idukki | 1463 | 3071 | 2099 | 2847 | 6577 | 2310 | 789 | 930 | 1179 | 5099 | 10578 | 2075 |
| Ernakulam | 21675 | 36600 | 1689 | 20982 | 37832 | 1803 | 11331 | 18950 | 1672 | 53988 | 93382 | 1730 |
| Thrissur | 15511 | 28821 | 1858 | 27553 | 55397 | 2011 | 8480 | 20748 | 2447 | 51544 | 104966 | 2036 |
| Palakkad | 62691 | 144709 | 2308 | 59440 | 132556 | 2230 | 6228 | 16800 | 2697 | 128359 | 294065 | 2291 |
| Malappuram | 9994 | 16107 | 1612 | 18823 | 31176 | 1656 | 2281 | 6160 | 2701 | 31098 | 53443 | 1719 |
| Kozhikode | 1165 | 1472 | 1264 | 5680 | 7056 | 1242 | 1471 | 1901 | 1292 | 8316 | 10429 | 1254 |
| Wayanad | -- | -- | -- | 13259 | 27855 | 2101 | 3819 | 9708 | 2542 | 17078 | 37563 | 2199 |
| Kannur | 9698 | 17332 | 1787 | 5475 | 8950 | 1635 | 248 | 317 | 1278 | 15421 | 26599 | 1725 |
| Kasargod | 6195 | 11741 | 1895 | 4485 | 8178 | 1823 | 427 | 693 | 1623 | 11107 | 20612 | 1856 |
| State | 163893 | 332643 | 2030 | 210309 | 414338 | 1970 | 56624 | 124380 | 2197 | 430826 | 871361 | 2023 |

A - Area (ha)

P - Production (t)

Py - Productivity (kg/ha)

Source : Directorate of Economics and Statistics

Appendix-4.11

District-wise Area, Production and Productivity of Rice In Kerala (Area in ha. production in tonnes and productivity in kg/ha)

| Sl. No. | District | Area | | | | Production | | | | Productivity | | | |
|---------|--------------------|---------|---------|---------|---------|------------|---------|---------|---------|--------------|---------|---------|---------|
| | | 1994-95 | 1995-96 | 1996-97 | 1994-95 | 1995-96 | 1996-97 | 1994-95 | 1995-96 | 1996-97 | 1994-95 | 1995-96 | 1996-97 |
| 1. | Thiruvananthapuram | 17338 | 16986 | 13961 | 30216 | 31831 | 24877 | 1743 | 1874 | 1782 | 1874 | 1874 | 1782 |
| 2. | Kollam | 25282 | 23252 | 22223 | 46829 | 45370 | 42237 | 1852 | 1951 | 1901 | 1951 | 1951 | 1901 |
| 3. | Pathanamthitta | 11045 | 10810 | 10985 | 24984 | 27210 | 23690 | 2262 | 2517 | 2157 | 2517 | 2517 | 2157 |
| 4. | Alappuzha | 54864 | 44132 | 41447 | 99240 | 121047 | 85192 | 1809 | 2743 | 2055 | 2743 | 2743 | 2055 |
| 5. | Kottayam | 25006 | 24878 | 20200 | 56102 | 55609 | 43728 | 2244 | 2235 | 2165 | 2235 | 2235 | 2165 |
| 8. | Idukki | 4696 | 4660 | 5099 | 10098 | 10817 | 10578 | 2150 | 2321 | 2075 | 2321 | 2321 | 2075 |
| 7. | Ernakulam | 60018 | 58533 | 53968 | 101048 | 101951 | 93352 | 1684 | 1803 | 1730 | 1803 | 1803 | 1730 |
| 8. | Thnssur | 62144 | 58703 | 51544 | 114060 | 110698 | 104966 | 1835 | 1886 | 2036 | 1886 | 1886 | 2036 |
| 9. | Palakkad | 140066 | 135630 | 128359 | 313768 | 280405 | 294065 | 2240 | 2067 | 2291 | 2067 | 2067 | 2291 |
| 10. | Malappuram | 42063 | 37919 | 31098 | 70825 | 85208 | 53443 | 1684 | 1720 | 1719 | 1720 | 1720 | 1719 |
| 11. | Kozhikoda | 8457 | 8749 | 8316 | 10543 | 10593 | 10429 | 1247 | 1211 | 1254 | 1211 | 1211 | 1254 |
| 12. | Wayanad | 23772 | 20388 | 17078 | 50492 | 46654 | 37563 | 2217 | 2288 | 2199 | 2288 | 2288 | 2199 |
| 13. | Kannur | 17302 | 16801 | 15421 | 26066 | 26050 | 26599 | 1507 | 1551 | 1725 | 1551 | 1551 | 1725 |
| 14. | Kasaragod | 12237 | 11659 | 11107 | 20794 | 19583 | 20612 | 1699 | 1680 | 1856 | 1680 | 1680 | 1856 |
| | Kerala State | 503290 | 471150 | 430826 | 975065 | 953026 | 871361 | 1937 | 2023 | 2023 | 2023 | 2023 | 2023 |

Source : Directorate of Economics and Statistics

Eighth Five Year Plan - Development Support for Rice Production

| Sl. No. | Activities | Unit | Base Year | | | | | Eighth Plan | | | 1996-97 |
|---------|--------------------------------------|--------------|-----------|----------|----------|---------|---------|-------------|---------|---------|---------|
| | | | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1994-95 | 1995-96 | 1996-97 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | |
| 1. | Community Nurseries | ha. | 2758 | 19619 | ---- | --- | 1339 | --- | --- | | |
| 2. | No. of infrastructural support works | No. | 113 | --- | 350 | 379 | 311 | --- | --- | | |
| 3. | Distribution of Weedicides | kg. | --- | 35442 | --- | -- | 7749 | --- | --- | | |
| 4. | Area Covered under Plant Protection | ha. | 53030 | 153218 | 44246 | --- | 221392 | --- | --- | | |
| 5. | Distribution of Equipments | No. | 5978 | 9260 | 6954 | --- | --- | --- | 3173 | | |
| 6. | Distribution of Power Tillers | No. | 225 | 583 | 1322 | --- | --- | --- | --- | | |
| 7. | Distribution of Tractors | No. | --- | 117 | --- | --- | --- | --- | --- | | |
| 8. | Distribution of Petty and Para | No. | 38 | 45 | --- | --- | --- | --- | --- | | |
| 9. | Distribution of Pumpsels | No. | --- | 4300 | --- | --- | --- | --- | 1627 | | |
| 10. | Distribution of Soil ameliorant | t | 9672 | 2731 | --- | --- | --- | --- | 5.07 | | |
| 11. | Distribution of Threshers | No. | 15 | 25 | 965 | --- | --- | --- | --- | | |
| 12. | Registered Seed Growers Programme | ha. | 1072 | 1817 | 1517 | 2949 | 2225 | 1621 | 1621 | | |
| 13. | Paddy Seed Distribution | t | 3163 | 3869 | 5421 | 3538 | 3086 | 206 | 206 | | |
| 14. | Seed Stores Constructed | No. | --- | --- | --- | --- | 32 | 50 | 50 | | |
| 15. | Field Demonstrations | No. | 2493. | --- | --- | 275 | 215 | 550 | 550 | | |
| 16. | IPM Demonstrations | No. | --- | --- | --- | 266 | 275 | 550 | 550 | | |
| 17. | Farmers Trainings | No. | 343 | --- | --- | 107 | 110 | 110 | 110 | | |
| 18. | Mini Kit of Rice Distribution | No. | 17102 | 4992 | 3765 | 32031 | 17789 | 18782 | 18782 | | |
| 19. | Trial Plot of Cowpea | No. | --- | --- | --- | --- | --- | 95 | 95 | | |
| 20. | Lime Distribution | t | --- | --- | --- | --- | --- | 4131 | 4131 | | |
| 21. | Wells | No. | --- | --- | --- | --- | --- | 253 | 253 | | |
| 22. | Rural Compost Pit | No. | --- | --- | --- | --- | --- | 1484 | 1484 | | |
| | Financial allocation | Rs. in lakhs | 808.50 | 2436.00* | 2109.00* | 2252.00 | 2313.00 | 4333.00 | 4333.00 | | |
| | Expenditure | Rs. in lakhs | 704.94 | 2467.07 | 2709.19 | 2094.09 | 2300.84 | 4373.36 | 4373.36 | | |

* Includes Prime Minister's Programme.

Source : Directorate of Agriculture

Eighth Five Year Plan-Development Support for Coconut Production

| Sl. No. | Activities | Unit | Base Year | | | | | Eighth Plan | | | |
|----------------------|-----------------------------------|----------|-----------|---------|---------|---------|---------|-------------|--|--|--|
| | | | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | |
| 1. | Filter Point Tube Well | Nos. | --- | --- | --- | 825 | 2988 | 4013 | | | |
| 2. | Open Dug Well | Nos. | 660 | 545 | --- | 2411 | 26087 | 11395 | | | |
| 3. | Pump Set | Nos. | 2409 | 5405 | --- | 24175 | 28055 | 14877 | | | |
| 4. | Community Irrigation | Unit | --- | --- | --- | 3104 | 4485 | 1657 | | | |
| 5. | Group Irrigation | Nos. | --- | --- | --- | 34 | 112 | 89 | | | |
| 6. | Green Manure Seeds | t | 915 | 32.78 | 103.83 | 22.28 | 21 | 16.6 | | | |
| 7. | Rocker Sprayer | Nos. | --- | 548 | --- | 567 | 2559 | 2724 | | | |
| 8. | Climbing device | Nos. | --- | --- | 631 | 497 | 1771 | 820 | | | |
| 9. | Training | Nos. | --- | 2859 | 2038 | 1593 | 1923 | 1526 | | | |
| 10. | Copra Driers | Nos. | --- | --- | --- | --- | 10 | 8 | | | |
| 11. | No. Palms Cut and Removed | Nos. | 109600 | 141461 | 87500 | 137500 | 111500 | 120500 | | | |
| 12. | Coconut Seedlings Distributed | Lakh No. | 15.00 | 4.45 | 12.13 | 5.92 | 11.68 | 11.61 | | | |
| 13. | Mg. Sulphate Distributed | t | 3234.55 | 2990.35 | --- | --- | --- | --- | | | |
| 14. | Replanting With Quality Seedlings | Nos. | 109600 | 126000 | 87500 | 137500 | 112500 | 112300 | | | |
| 15. | Multi Species Cropping | ha. | 4800 | 6012 | 10500 | 16500 | 13500 | 7600 | | | |
| 16. | Fertilizer Application for Palms | Nos. | --- | --- | --- | 4347225 | 4375000 | 4375000 | | | |
| Financial allocation | | | 509.00 | 493.00 | 1027.00 | 2223.00 | 3208.00 | 3468.00 | | | |
| Expenditure | | | 639.12 | 476.26 | 966.84 | 2563.98 | 3299.13 | 3859.24 | | | |

Source : Directorate of Agriculture

Eighth Five Year Plan - Development Support Given for Spices

| (1) | (2) | Eight Five Year Plan | | | | | | (8) |
|------------------|--------------------------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|-----|
| | | Base Year 1991-92 (3) | 1992-93 (4) | 1993-94 (5) | 1994-95 (6) | 1995-96 (7) | 1996-97 (8) | |
| A. Pepper | | | | | | | | |
| 1. | Distribution of rooted pepper cuttings | lakh No. | 60.44 | 59.10 | 49.90 | 84.0 | 58.60 | |
| 2. | Rehabilitation of old pepper | | | | | | | |
| | I Year | ha. | -- | -- | 4000 | 4000 | 5000 | |
| | II Year | ha. | 7300 | 9415 | 6939 | -- | 3999 | |
| | III Year | ha. | -- | -- | 2032 | -- | 4180 | |
| 3. | Plant Protection Measures | ha. | -- | -- | 86572 | 86589 | 86589 | |
| 4. | Establishment of field demonstration plots | | | | | | | |
| | I Year | No. | -- | -- | 300 | 825 | 500 | |
| | II Year | No. | -- | -- | -- | 300 | 825 | |
| | III Year | No. | -- | -- | -- | 200 | 300 | |
| 5. | Pepper as inter crop | lakh No. | -- | -- | -- | 52 | 38.7 | |
| 6. | Area expansion | | | | | | | |
| | I Year | ha. | -- | -- | 400 | 2102 | 1000 | |
| | II Year | ha. | -- | -- | -- | 400 | 2002 | |
| | III Year | ha. | -- | -- | -- | 400 | 400 | |
| B. Ginger | | | | | | | | |
| | Production of foundation seed | t. | -- | -- | 33.125 | 8.1 | 5 | |
| | Demonstration Plots | No. | 501 | 100 | 800 | 2200 | 1400 | |
| | Input kit | No. | -- | -- | 1000 | 2000 | 2000 | |
| | Plant protection programme | ha. | -- | -- | -- | -- | 300 | |
| | Area expansion | ha. | -- | -- | 600 | 2430 | 1500 | |

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Appendix-4.14 (contd...)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|------------------------------------------------------|-----|--------|--------|---------|---------|---------|----------|
| Minikit | No. | -- | -- | 4490 | -- | -- | -- |
| C. Turmeric | | | | | | | |
| Foundation seed production | t | -- | -- | -- | 19.2 | 32 | 25 |
| Demonstration plots | No. | 160 | 100 | -- | -- | 1300 | 700 |
| Area expansion | ha. | 66 | -- | -- | 600 | 1200 | 310 |
| Minikits | No. | -- | -- | 4500 | -- | -- | -- |
| D. Chillies | | | | | | | |
| Demonstration plots | No. | -- | -- | -- | -- | 150 | 50 |
| Distribution of Minikits | No. | -- | -- | -- | -- | 500 | 725 |
| Demonstration plots of paprika | No. | -- | -- | -- | -- | 50 | 6 |
| Area Expansion | ha | -- | -- | 800 | -- | -- | -- |
| E. Tree Spices | | | | | | | |
| Clove seedlings | No. | | 44000 | 33000 | 38000 | 48267 | 34350 |
| Nutmeg grafts | No | 63785 | -- | -- | 600 | 1500 | 500 |
| Cinnamon seedlings | No. | -- | -- | 1700 | 4000 | 8650 | 3000 |
| Demonstration plots | | | | | | | |
| I Year | No. | 43 | -- | -- | -- | 400 | 500 |
| II Year | | -- | -- | -- | -- | 600 | 400 |
| III Year | | -- | -- | -- | -- | -- | 598 |
| D. General Programme | | | | | | | |
| Distribution of PP. equipments | No. | -- | -- | -- | 1520 | 2134 | 523 |
| Soil Conservation measures | ha. | -- | -- | -- | 700.48 | 1000 | 1660 |
| Plant protection measures against quick wilt disease | ha. | -- | -- | 47000 | -- | -- | 83039.61 |
| Financial Target | | 150.00 | 370.00 | 1000.00 | 1556.00 | 1590.00 | 1500.00 |
| Expenditure | | 366.33 | 807.95 | 732.36 | 1505.26 | 1662.54 | 1645.26 |

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Source : Directorate of Agriculture

Eighth Five Year Plan-Development Support for Cashew

| Sl. No. | Activities | Unit | Base Year | | | | | Eighth Plan | | |
|---------|------------------------------|--------------|-----------|---------|---------|---------|---------|-------------|--|--|
| | | | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| 1. | Area Expansion | ha | --- | 516 | 2976 | 1650 | 1917 | 3225 | | |
| 2. | Seedlings/grafts Distributed | No. | --- | 84000 | 320000 | 223150 | 306410 | 516000 | | |
| 3. | Replanting/maintenance | ha | --- | 250 | --- | 550 | 500 | 950 | | |
| | I Year | | --- | 150 | 5792 | 172 | 600 | 700 | | |
| | II Year | | --- | --- | --- | 200 | 317 | 650 | | |
| | III Year | | --- | --- | --- | 100 | 194 | 167 | | |
| | IV Year | | --- | --- | --- | --- | 97 | 185 | | |
| | V Year | | --- | --- | --- | --- | --- | --- | | |
| 4. | Plant Protection Measurers | ha | 4856 | 600 | 7520 | 9863 | --- | 10,000 | | |
| 5. | Better management | ha | --- | --- | --- | 2750 | 10000 | 150 | | |
| | I Year | | --- | --- | --- | --- | 2750 | 1000 | | |
| | II Year | | --- | --- | --- | --- | --- | 2712 | | |
| | III Year | | --- | --- | --- | --- | --- | --- | | |
| | Financial allocation | Rs. in lakhs | 20.00 | 15.34 | 96.50 | 176.00 | 158.00 | 225.00 | | |
| | Expenditure | Rs. in lakhs | 19.09 | 13.84 | 131.35 | 189.62 | 139.20 | 209.18 | | |

Source : Directorate of Agriculture

Appendix - 4.16

Plantation Crops-Area, Production and Productivity

| | 1991-92 | | 1992-93 | | 1993-94 | | 1994-95 | | 1995-96 | | 1996-97 | |
|-----------------------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| | Kerala | India | Kerala | India | Kerala | India | Kerala | India | Kerala | India | Kerala | India |
| AREA (hectares) | | | | | | | | | | | | |
| Tea | 34708 | 420500 | 34488 | 422592 | 34683 | 418363 | 36817 | 425966 | 36775 | 427766 | 36871 | 434376 |
| Coffee | 84016 | 270513 | 84000 | 270513 | 82348 | 292467 | 82348 | 293109 | 82348 | 305153 | 82348 | 305153 |
| Rubber | 425768 | 488514 | 428864 | 499374 | 437138 | 508420 | 443300 | 515572 | 448988 | 523200 | 449952 | 523200 |
| Cardamom | 44008 | 81113 | 43386 | 81113 | 43459 | 82960 | 44237 | 83651 | 44237 | 83651 | 44237 | 83651 |
| PRODUCTION (tonnes) | | | | | | | | | | | | |
| Tea | 66803 | 754192 | 54435 | 703931 | 67756 | 759505 | 68433 | 747564 | 64794 | 749888 | 62593 | 779153 |
| Coffee | 30960 | 180000 | 36170 | 161500 | 43472 | 208000 | 39000 | 180100 | 39510 | 200000 | 43890 | 190000 |
| Rubber | 343109 | 366745 | 368648 | 393490 | 408311 | 435160 | 442830 | 471815 | 476495 | 506910 | 514500 | 549425 |
| Cardamom | 3460 | 5000 | 2424 | 3000 | 4430 | 6600 | 4720 | 7000 | 5050 | 7500 | 4200 | 6000 |
| PRODUCTIVITY (kg/ha) | | | | | | | | | | | | |
| Tea | 1925 | 1794 | 1578 | 1666 | 1954 | 1815 | 1859 | 1754 | 1762 | 1753 | 1698 | 1794 |
| Coffee | 466 | 801 | 431 | 597 | 655 | 936 | 589 | 788 | 595 | 922 | 661 | 847 |
| Rubber | 1139 | 1130 | 1203 | 1191 | 1304 | 1285 | 1389 | 1362 | 1443 | 1422 | 1530 | 1500 |
| Cardamom | 79 | 62 | 56 | 37 | 136 | 108 | 145 | 113 | 155 | 120 | 129 | 96 |

Figures relating to tea -area, production and productivity, refer to calendar year.

Source - UPASI & Rubber Board

Appendix-4.17

Average Market Price of Indigenous & Natural Rubber in Kottayam Market (Rs. per Quintal)

| Sl.No. | Year | RMA-4 | Ungraded |
|--------|---------|-------|----------|
| (1) | (2) | (3) | (4) |
| 1. | 1988-89 | 1815 | 1745 |
| 2. | 1989-90 | 2131 | 2057 |
| 3. | 1990-91 | 2129 | 2023 |
| 4. | 1991-92 | 2141 | 1975 |
| 5. | 1992-93 | 2550 | 2420 |
| 6. | 1993-94 | 2569 | 2437 |
| 7. | 1994-95 | 3638 | 3396 |
| 8. | 1995-96 | 5204 | 4874 |
| 9. | 1996-97 | 4901 | 4531 |

Source : Rubber Board, Kottayam

Appendix-4.18

Consumption of Rubber in Kerala & India (tonnes)

| Sl. No. | Year | Kerala | | India | |
|---------|---------|--------|-------|--------|--------|
| | | N.R. | S.R. | S.R. | R.R. |
| 1. | 1991-92 | 51197 | 14893 | 350150 | 105650 |
| 2. | 1992-93 | 52462 | 15646 | 414105 | 108690 |
| 3. | 1993-94 | 54108 | 16441 | 450480 | 113395 |
| 4. | 1994-95 | 64660 | 18984 | 485850 | 122710 |
| 5. | 1995-96 | 75200 | 22727 | 525465 | 134085 |
| 6. | 1996-97 | NA | NA | 561765 | 142810 |

NR - Natural Rubber

SR - Synthetic Rubber

RR - Reclaimed Rubber

Source : Rubber Board, Kottayam.

Eighth Five Year Plan - Development Support for Vegetables and Fruits by Different Agencies

| Sl. No. | Activities | Unit | Base Year | | | Eighth Plan | | |
|----------------------------------------------------------------|-------------------------------------------------|-----------|-----------|---------|---------|-------------|---------|----------------------|
| | | | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 |
| 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 89 |
| A. Department of Agriculture | | | | | | | | |
| 1. | Vegetable Seed Packets Distribution | Lakh Nos. | 7.48 | 10.00 | 13.92 | 15.00 | 5.00 | 0.70 |
| 2. | Irrigation Source Developed | Nos. | --- | 59 | 108 | --- | --- | 149 |
| 3. | Pumpsets Installed | Nos. | --- | 536 | 1088 | 34 | 22 | --- |
| 4. | Planting Materials of Fruit Plants Distributed* | Nos. | 238000 | --- | 43917 | 116549 | 162219 | 180000 |
| 5. | Commercial Cultivation of Vegetables | ha | --- | 1934 | --- | --- | --- | 1600 |
| B. Kerala Horticulture products Development Corporation | | | | | | | | |
| 1. | Retail outlets for vegetables | Nos. | --- | --- | --- | --- | --- | 66 |
| 2. | Self help groups formed | Nos. | --- | --- | --- | --- | --- | 96 (3000 farmers) |
| 3. | Vegetable cultivation | ha | --- | --- | --- | --- | --- | 6000 |

550

| C. Kerala Horticulture Development Programme | | Target | Cumulative 1995-96 | 1996-97 |
|----------------------------------------------|-------------------------|--------|--------------------|---------|
| 1. Area covered | | | | |
| (a) | Vegetables | 6000 | 1918 | 1510 |
| (b) | Banana | 4195 | 720 | 1487 |
| (c) | Pineapple | 1000 | 349 | 542 |
| (d) | Mangoes | 750 | 81 | -- |
| 2. Production | | | | |
| (a) | Vegetables | 100000 | 33961 | 22230 |
| (b) | Banana | 104875 | 12943 | 37865 |
| (c) | Pineapple | 30000 | --- | 12885 |
| (c) | No. of self help groups | 1600 | 391 | 408 |

Source : Directorate of Agriculture & KHDP

Appendix-4.20
Consumption of Fertilizers/ha of Gross Cropped Area in Kerala (kg)

| Sl.No. | Year | N | P | K | Total | | N : PK % (Kerala) |
|--------|---------|-------|-------|-------|--------|-------|-------------------|
| | | | | | Kerala | India | |
| 1. | 1991-92 | 27.43 | 18.92 | 30.44 | 74.79 | 70.70 | 57.92 |
| 2. | 1992-93 | 27.55 | 15.51 | 23.57 | 66.03 | 65.53 | 70.50 |
| 3. | 1993-94 | 25.48 | 10.87 | 21.70 | 58.05 | 66.56 | 78.23 |
| 4. | 1994-95 | 26.60 | 13.10 | 25.65 | 65.35 | 73.10 | 68.60 |
| 5. | 1995-96 | 28.60 | 14.15 | 21.10 | 66.85 | 74.60 | 81.13 |
| 6. | 1996-97 | 28.23 | 13.59 | 19.60 | 61.52 | Nil | 85.35 |

Source : Directorate of Agriculture.

Selected Indicators of Agricultural Development in Kerala

| Sl.No. (1) | Programme (2) | Unit (3) | 1991-92 (4) | 1992-93 (5) | 1993-94 (6) | 1994-95 (7) | 1995-96 (8) | 1996-97 (9) |
|---------------|------------------------------------------------------------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1. | Fertilizer Consumption | | | | | | | |
| a) | Nitrogen | t | 82874 | 83926 | 77599 | 81182 | 87231 | 86385 |
| b) | Phosphorus | t | 51109 | 47250 | 33122 | 39939 | 43143 | 41438 |
| c) | Potash | t | 91954 | 71792 | 66110 | 78205 | 73523 | 59750 |
| | Total | t | 225937 | 202968 | 176831 | 206326 | 202873 | 187573 |
| 2. | Plant Protection Measures | | | | | | | |
| a) | Fungicide (Liquid & Solid) in terms of technical grade | t | 374.46 | 394.01 | 264.50 | 1038.92 | 1001.88 | 895.92 |
| b) | Insecticides (Liquid & Solid) in terms of technical grade | t | 325.24 | 302.17 | 294.64 | 305.67 | 249.37 | 218.41 |
| c) | Weedicide (in terms of technical grade) | t | 20.46 | 36.72 | 20.46 | 16.63 | 12.76 | 15.74 |
| d) | Rodenticides (in terms of technical grade) | t | 4.09 | 17.65 | 21.10 | 20.12 | 18.74 | 10.40 |
| e) | Area under Plant Protection Coverage | Lakh ha. | 7.25 | 8.20 | 8.70 | 10.50 | 10.80 | 12.05 |
| f) | Rodent control operation | Lakh ha. | 0.99 | 0.81 | 0.97 | 0.90 | 0.95 | 0.93 |
| g) | Biological control of <i>Nephanitic serinopa</i> - Parasites liberated | Lakh ha. | 233.81 | 200.93 | 207.28 | 184.92 | 183.56 | 147.87 |
| h) | Weed control | Lakh ha. | 1.43 | 1.39 | 1.42 | 1.20 | 1.30 | 1.25 |
| 3. | High yielding varieties of paddy seeds distributed | t | 1675 | 2865.74 | 4500.00 | 4598.00 | 4200.00 | 4298.00 |
| 4. | Quality planting materials distributed | | | | | | | |
| a) | Coconut seedlings | Lakh No. | 14.16 | 3.95 | 10.04 | 9.87 | 19.39 | 12.01 |
| b) | Rooted pepper cuttings | Lakh No. | 39.00 | 35.00 | 55.00 | 60.00 | 60.00 | 58.60 |
| c) | Cashew layers (grafts from 1994-95) | Lakh No. | -- | 0.79 | 3.95 | 1.78 | 1.08 | 1.85 |
| 5. | Soil testing | No. | 213441 | 185400 | 187740 | 166869 | 167897 | 230000 |
| | Soil samples analysed | | | | | | | |

Source : Directorate of Agriculture.

Average Price of Agricultural Inputs (Rs.)

| Sl.No. | Item | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 |
|--------------|---------------------------------------------------|--------------------------|--------------------------|-----------|-----------|---------------|--------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| AI | Fertilizer (Price/tonne) | | | | | | |
| 1. | Urea | 3060 (w.e.f. 25-7-91) | 2760 (w.e.f. 25-8-92) | 2760 + ST | 3320 + ST | 3320 + ST | 3660 + ST |
| 2. | Ammonium Sulphate | 1650 - 3250 | 3250 - 1920 | 1920 +ST | 4220 +ST | 3750-4150 +ST | 4050-4150+ST |
| 3. | Super Phosphate | 950-1240 | 1240-2420 | 2767 | 2640 | 2800 + ST | 2719-2828 |
| 4. | Muriate of Potash | 1300-1700 | 1700-5690 | 3813 | 3817.50 | 4458 + ST | 4094-4217 |
| II. | Paddy Seed | | | | | | |
| 1. | Average NSC Price (Per Quintal) | 580 | 700 | 803.75 | 817.50 | 900 | 1300 |
| 2. | State Seed Farm Price (Per Quintal) | 300 | 300 | 500 | 500 | 500 | 500 |
| III. | Green Manure Seed (Per kg.) | | | | | | |
| 1. | Daincha | 10 | 12 | 8.50 | 8.55 | 10.50 | 10 |
| 2. | Sannhemp | | | 8 | 11.55 | 12.50 | 13.50 |
| IV. | Coconut Seedlings | | | | | | |
| a) | WCT | 12 | 12 | 15 | 15 | 15 | 15 |
| b) | Hybrids | 15 | 15 | 18 | 18 | 15 | 15 |
| V. | Cashew Grafts (Per Layer) | 3 | 5 | 20 | 20 | 20 | 20 |
| - VI. | Rooted Pepper cuttings (Price per cutting) | 1 | 1 | 1.50 | 1.50 | 1.50 | 1.50 |
| VII. | Pesticides (Price per litre/Kg.) | | | | | | |
| | Phosphamidon | 280 | 303 | 360/lit. | 440/lit. | 430/lit. | 422/lit. |
| | Quinal phos | 193 | 247 | 293./lit. | 348/lit. | 350/lit. | 344/kg. |
| | Monocrotophos | 268 | 296 | 310/lit. | 416/lit/ | 380/lit. | 373/lit. |
| | Copper Sulphate | 40 | 50 | 60 | 48 | 54.50 | 48 |

Source : Directorate of Agriculture.

Appendix: 4.23(a)

**Numbers of Students Admitted for Various Courses in Kerala Agricultural University and
the Number of Students Passed Out During the VIII Plan**

| Courses | 1992-93 | | 1993-94 | | 1994-95 | | 1995-96 | | 1996-97 | |
|-----------------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|
| | No. Admitted | No. Passed out | No. Admitted | No. Passed out | No. Admitted | No. Passed out | No. Admitted | No. Passed out | No. Admitted | No. Passed out |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| BSc (Ag.) | 159 | 127 | 169 | 126 | 182 | 102 | 171 | 164 | 162 | 59 |
| B.V.Sc. & A.H. | 97 | 14 | 117 | 110 | 117 | 112 | 102 | 110 | 108 | 78 |
| B.F.Sc. | 24 | 9 | 37 | 15 | 42 | 9 | 40 | 13 | 36 | 37 |
| B.Sc. (C & B) | 23 | 27 | 31 | 13 | 25 | 11 | 29 | 18 | 32 | 14 |
| B.Sc. (Forestry) | 13 | 12 | 16 | 24 | 14 | - | 17 | 13 | 14 | - |
| B.Tech. Agril. Engg. | 20 | 30 | 27 | 33 | 24 | 15 | 21 | 15 | 20 | 18 |
| B.Sc. (D.Sc. & Tech.) | - | - | 21 | - | 21 | - | 18 | - | 269 | - |
| M.sc. (Ag) | 64 | 34 | 71 | 52 | 62 | 49 | 45 | 79 | 39 | 46 |
| M.Sc. (Horti) | 14 | 11 | 21 | 7 | 21 | 12 | 21 | 14 | 23 | 6 |
| MSc. (Ag. Stat.) | 4 | 1 | 4 | 0 | 4 | 1 | - | 4 | 2 | 1 |
| M.Sc. (Forestry) | 6 | 3 | 6 | 5 | 9 | 2 | 5 | 7 | 8 | 3 |
| M.Sc. (C&B) | 4 | 1 | - | 1 | - | 1 | 2 | 3 | - | - |
| M.Sc.(FS & N) | 8 | 6 | 8 | 3 | 10 | 3 | 7 | 15 | 14 | 7 |
| M.Tech (Agri. Engg.) | 8 | 2 | 8 | 11 | 8 | 1 | 8 | 4 | 7 | 8 |
| M.V.Sc. | 23 | 19 | 30 | 16 | 35 | 22 | 36 | 40 | 35 | 23 |
| M.F.Sc. | 3 | 6 | 5 | 3 | 5 | 5 | 8 | 4 | 2 | 1 |
| Ph. D(Agri.) | 24 | 9 | 23 | 11 | 20 | 10 | 28 | 10 | 30 | 24 |
| Ph. D(Vety.) | 5 | 3 | 7 | 4 | 7 | 3 | 3 | 4 | 4 | 6 |
| Ph. D (Home Sci.) | 1 | - | - | 2 | 1 | 1 | 2 | - | 1 | - |
| Total | 500 | 314 | 601 | 436 | 607 | 359 | 563 | 517 | 566 | 331 |

Source: Kerala Agricultural University

Crop Varieties and Poultry Breeds Released by KAU During the Eighth Plan

| Crop | Variety |
|----------------------------|------------------------------------------------------------------------------------|
| Rice | Dhanya, Hraswa, Kairali, Kanchana, Athira, Aiswarya Vyttila-4, Ranjini, Vyttila-5. |
| Field Cowpea | Pournami, Shyma, KMV-1 |
| Vegetable Cowpea | Sarika, Malika |
| Cassava | Nidhi, Kalpaka |
| Cashew | Kanaka, Dhana, Dharasree, Sulabha |
| Coconut | Kerasree, Kerasoubhagya |
| Pepper | Panniyur-5 |
| Cardamom | PV-1 |
| Guinea grass | Marathakom |
| Sugarcane | Thirumadhuram, Madhurima |
| Bhindi | Kiran |
| Bittergourd | Priyanka, Preethi |
| Snakegourd | Kaumudi |
| Brinjal | Swetha |
| Chilli | Ujwala |
| Winged Beans | Revathy |
| Turmeric | Kanthi, Soba |
| Amaranth | Arun |
| Sweet Potato | Kanjanghad |
| Mushroom | Ananthan |
| Poultry | Breed |
| Commercial layer | Athulya |
| Layer for backyard rearing | Gramalakshmi |

Source: Kerala Agricultural University

Appendix -4.24(a)

Major Schemes Implemented Under Soil and Water Conservation

| Sl.No. | Scheme | Financial Achievement during VIII th plan (Rs. in lakhs) | Physical Achievement (Area in ha) | | | | | | | Total for 8th plan |
|--------|----------------|----------------------------------------------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|--------------------|
| | | | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 1. | State plan | 1580.28 | 1415 | 793 | 2269 | 2520 | 1706 | 1229 | 8517 | |
| 2. | RIDF Programme | 861.20 | --- | --- | --- | --- | 1500 | 2249 | 3749 | |
| 3. | NWDPRA | 1566.74 | --- | --- | --- | --- | --- | --- | 88276* | |
| 4. | RVP, Kundah | 704.81 | 1420 | 907 | 3142 | 2658 | 2643 | 1721 | 11071 | |
| Total | | 4713.03 | --- | --- | --- | --- | --- | --- | 111613 | |

* Throughout the period the project was implemented in the entire area

Source : Department of Agriculture

Appendix -4.24(b)

NWDPRA - Progress of Implementation as on 1996-97

| Sl.No. | Item | (Amount Rs. in Lakhs) |
|--------|------------------------------------------|-----------------------|
| 1. | Basic activities | 840.42 |
| 2. | Conservation and drainage line treatment | 1483.35 |
| 3. | Production system | 451.22 |
| 4. | Livestock management | 217.39 |
| Total | | 2992.38 |

Source : Department of Agriculture

OPEC Assisted Kerala Rainfed Farming Development Project

A. Physical Achievement

| Sl. No. | Components | 1994-95 | | 1995-96 | | 1996-97 | | Progressive total | |
|---------|----------------------------------|---------|-------------|---------|-------------|---------|-------------|-------------------|-------------|
| | | Target | Achievement | Target | Achievement | Target | Achievement | Target | Achievement |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Agroservice Centres (NO.) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| 2. | Farmers Training Centres (No.) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3. | Decentralised Nurseries (No.) | 50 | 37 | 50 | 50 | 50 | 50 | 150 | 137 |
| 4. | Five day Training Camps (NO.) | 80 | 31 | 80 | 53 | 80 | 51 | 240 | 135 |
| 5. | One day Training Camps (NO.) | 400 | 79 | 400 | 198 | 400 | 251 | 1200 | 528 |
| 6. | Inter/Mixed Cropping (ha) | 6128 | 5646.64 | 5000 | 4627.72 | 3692 | 3874.67 | 14820 | 14149.03 |
| 7. | Subsidiary Occupation (No.) | 702 | 1868 | 1000 | 799 | 600 | 1773 | 2302 | 4440 |
| 8. | Improved Irrigation(ha) | 1491 | 625 | 1500 | 489 | 1083 | 620 | 4074 | 1734 |
| 9. | Supply of Minikits (No.) | 300 | 675 | 1305 | 1418 | 2460 | 2106 | 4065 | 4199 |
| 10. | Land and Water Conservation (ha) | --- | --- | --- | --- | 2000 | 1963.41 | 2000 | 1963.41 |

B. Financial Achievement

(Rs. in lakhs)

| Year | Extension Support and Project Monitoring | | Line of Credit to Farmers | |
|---------|------------------------------------------|----------------------|---------------------------|----------------------|
| | Amount | % of total provision | Amount | % of total provision |
| 1993-94 | 16.74 | 1.45 | --- | --- |
| 1994-95 | 164.49 | 14.26 | 709.37 | 14.70 |
| 1995-96 | 148.29 | 12.85 | 558.25 | 11.57 |
| 1996-97 | 544.28 | 47.18 | 744.16 | 15.43 |
| Total | 873.80 | 75.74 | 2011.78 | 41.70 |

Source : PPM Cell, Govt. of Kerala

Appendix -4.26

Cattle Population in Different Census Periods

| Particulars | 1961 | 1966 | 1972 | 1977 | 1982 | 1987 | 1996 | Major change from 1961 to 1996 |
|-------------|-------|-------|--------|--------|--------|--------|--------|--------------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Cattle | 27.53 | 28.57 | 28.56 | 30.06 | 30.97 | 34.24 | 33.96 | 6.43 |
| Cross bred | -- | -- | -- | 13.55 | 14.53 | 17.02 | 22.86 | -- |
| Buffalo | 4.85 | 4.71 | 4.72 | 4.54 | 4.09 | 3.29 | 1.65 | -3.2 |
| Sheep | 8.69 | 7.58 | 0.10 | 0.03 | 0.07 | 0.30 | 0.061 | -8.63 |
| Goat | 1.32 | 11.89 | 14.68 | 16.83 | 20.04 | 15.81 | 18.61 | 17.29 |
| Poultry | 91.06 | 99.09 | 118.45 | 133.89 | 140.83 | 179.96 | 256.46 | 165.4 |
| Pigs | 1.22 | 1.12 | 1.29 | 1.72 | 1.27 | 1.37 | 1.43 | 0.21 |
| Ducks | 2.80 | 2.39 | 2.65 | 4.60 | 5.30 | 8.46 | 11.87 | 9.07 |

Source : Livestock Census.

Appendix - 4.27

Trend of Bovine Population in Different Census Periods (in lakhs)

| Particulars | 1961 | 1966 | 1972 | 1977 | 1982 | 1987 | 1996 |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Cattle | | | | | | | |
| Male | 9.74 | 9.13 | 7.81 | 7.53 | 6.59 | 5.08 | 3.84 |
| Female | 17.79 | 19.44 | 20.76 | 22.25 | 24.38 | 29.16 | 30.12 |
| Total | 27.53 | 28.57 | 28.56 | 30.06 | 30.97 | 34.24 | 33.96 |
| Buffalo | | | | | | | |
| Male | 3.20 | 2.96 | 2.69 | 2.53 | 2.17 | 1.30 | 0.67 |
| Female | 1.65 | 1.75 | 2.03 | 2.01 | 1.92 | 1.99 | 0.98 |
| Total | 4.85 | 4.71 | 4.72 | 4.54 | 4.09 | 3.29 | 1.65 |
| Bovine Population | 32.38 | 33.28 | 33.28 | 34.68 | 35.06 | 37.53 | 35.61 |

Source : Livestock Census

Activities in the Animal Husbandry Sector During the Last Six Years

| Sl.No. | Activities | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 |
|--------|------------------------------------------------|---------|----------|---------|----------|---------|---------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1. | Cases treated | 3783036 | 3298356 | 3326500 | 3400886 | 3441264 | 3851009 |
| 2. | Operations performed | 118636 | 110086 | 112041 | 116627 | 121400 | 115867 |
| 3. | Castaration done | 13626 | 11782 | 12245 | 10079 | 11532 | 8735 |
| 4. | Vaccinations done | | | | | | |
| | 1. Livestock | 2021717 | 2009586 | 2349143 | 2424315 | 2501892 | 341742 |
| | 2. Poultry | 4124485 | 6515239 | 4647680 | 4754576 | 4863930 | 1828049 |
| 5. | Anti rabic vaccinations done in Dogs | 23220 | 40322 | 49818 | 46941 | 48762 | 96331 |
| 6. | Artificial inseminations done | 1376761 | 1233760 | 1351831 | 1464941 | 1240116 | 1151189 |
| 7. | Calvings recorded | 262549 | 261286 | 303331 | 306975 | 323958 | 332962 |
| 8. | Chicks hatched out in Department Poultry Farms | 636503 | 882663 | 901057 | 920592 | 94728 | 650876 |
| 9. | Vaccines produced in Veterinary Biologicals | | | | | | |
| | 1. Poultry | 8558800 | 11302400 | 9070100 | 15391900 | 5702200 | 4542800 |
| | 2. Livestock | 2558640 | 2123400 | 1488680 | 1149090 | 731630 | 1026380 |

Source : Department of Animal Husbandry.

Appendix -4.29

Eighth Five Year Plan - Production and Utilisation of Frozen Semen in Kerala

| Year | Production of frozen semen (lakh doses) | Utilisation of frozen semen in Kerala(lakh doses) | Utilisation of frozen semen out side Kerala(lakh doses) |
|---------------------|------------------------------------------|----------------------------------------------------|----------------------------------------------------------|
| 1991-92 (Base Year) | 16.57 | 15.92 | 7.52 |
| 1992-93 | 29.44 | 14.63 | 9.88 |
| 1993-94 | 26.81 | 14.99 | 9.99 |
| 1994-95 | 24.85 | 15.36 | 10.97 |
| 1995-96 | 14.93 | 16.27 | 6.61 |
| 1996-97 | 24.78 | 15.39 | 7.83 |

Source : K.L.D. Board

Appendix - 4.30
Artificial Insemination Centres in Kerala in 1997

| Department / Institutions | No. of A.I. centres |
|--------------------------------------------------------------|---------------------|
| Department of Animal Husbandry (Both ICDP and Non - ICDP) | 2117 |
| Department of Dairy Development | 50 |
| Other Voluntary Organisations | 38 |
| APCOS | 61 |
| Tata Tea | 27 |
| Total | 2293 |

Source : Department of Animal Husbandry

Appendix -4.31
Other Important Activities of KLD Board During 1997

| Name of Programme | Achievement |
|--------------------------------------------------|-------------|
| 1. Liquid Nitrogen (Lakh dose) | 5.26 |
| 2. Quantity of basic fodder seeds produced (kg.) | 1043 |
| 3. Quantity of fodder seed multiplied (tonnes) | 24.36 |
| 4. No. of kids distributed | 108 |
| 5. No. of personnel trained | 688 |

Source : K.L.D. Board

Appendix-4.32

Performance of KCMMF

| Sl. No. | Particulars | 1993 | 1994 | 1995 | 1996 | 1997 |
|---------|------------------------------------------|--------|--------|--------|--------|--------|
| 1. | No. of Apcos registered (Cum) | 1595 | 1712 | 1823 | 1930 | 1971 |
| 2. | No. of Apcos functional | 1523 | 1621 | 1722 | 1784 | 1814 |
| 3. | No. of members in Apcos (Cum) | 368988 | 438952 | 65865 | 511542 | 517355 |
| 4. | No. of women in Apcos | 50322 | 62217 | 658665 | 66792 | 72885 |
| 5. | No. of SC/ST members in Apcos | 25447 | 26093 | 27017 | 28143 | 30685 |
| 6. | Average milk procured/day by KCMMF (l) | 331988 | 414730 | 465294 | 484969 | 435227 |
| 7. | Average milk marketed per day(l) | 320763 | 368512 | 408640 | 458609 | 516597 |
| 8. | Direct employment generated (persons) | 3368 | --- | 3602 | 3602 | 3602 |
| 9. | Average price paid to Soc/ l (Rs.) | 6.34 | 7.10 | 7.99 | 8.48 | 8.95 |
| 10. | Average price paid to producers/ l (Rs) | 6.15 | 6.89 | 7.76 | 8.25 | 9.26 |
| 11. | Mobile regular vety.routes | 19 | 17 | 15 | 16 | 16 |
| 12. | No. of cases treated(yearly) | 207846 | 211199 | 198125 | 161242 | 34972 |
| 13. | No. of emergency vty routes | 14 | 15 | 15 | 16 | 18 |
| 14. | No. of cases treated yearly | 34859 | 34492 | 33386 | 39006 | 10126 |
| 15. | Cattle feed sales (tonnes) | --- | 34213 | 35702 | 28367 | 8457 |
| 16. | Quantity of ghee produced (tonnes) | 588 | 535 | 1093 | 912 | 1023 |

Source : KCMMF

Appendix - 4.33
Average Quantity of Milk Procured by APCOS

| Year | No. of Societies | Total Procurement | Procurement per Society |
|---------|------------------|-------------------|-------------------------|
| 1991-92 | 1471 | 314342 | 214 |
| 1992-93 | 1523 | 331988 | 218 |
| 1993-94 | 1621 | 414730 | 256 |
| 1994-95 | 1722 | 465294 | 270 |
| 1995-96 | 1784 | 484969 | 272 |
| 1996-97 | 1814 | 435227 | 240 |

Source : KCMMF

Appendix-4.34
Record of Performance of the Dairies During 1992, 1996 & 1997

| Sl. No. | Dairy (2) | Capacity (LPD) (3) | Procurement (Litres) | | | Sales (Litres) | | |
|---------|--------------------|--------------------|----------------------|----------|----------|----------------|----------|----------|
| | | | 1992 (4) | 1996 (5) | 1997 (6) | 1992 (7) | 1996 (8) | 1997 (9) |
| 1. | Thiruvananthapuram | 100000 | 44837 | 70231 | 75266 | 75446 | 110867 | 114742 |
| 2. | Kollam | 60000 | 21785 | 33653 | 31273 | 30549 | 64891 | 67467 |
| 3. | Alappuzha | 60000 | 16532 | 24118 | 23200 | 17636 | 27266 | 29077 |
| 4. | Kottayam | 6000 | 5589 | 12135 | 16039 | 16799 | 31342 | 31062 |
| 5. | Ernakulam | 100000 | 64851 | 86483 | 93400 | 67883 | 91876 | 88846 |
| 6. | Thrissur | 60000 | 15449 | 45246 | 44913 | 17119 | 35160 | 34889 |
| 7. | Palakkad | 40000 | 23956 | 69869 | 8706 | 17498 | 34179 | 34558 |
| 8. | Kannur | 40000 | 2913 | 47997 | 59456 | 28401 | 59930 | 63639 |
| 9. | Kozhikode | 60000 | 12004 | 24101 | 28539 | 26122 | 65727 | 67928 |

Source : KCMMF.

Appendix- 4.35

Price Revision Details

| Date of Revision | FAT (Rs./Kg.) | SNF (Rs./kg.) | Sales price |
|------------------|---------------|---------------|-------------|
| 01-April 84 | 30.00 | 21.00 | 4.00 |
| 01-Oct. 85 | 31.00 | 24.00 | 4.50 |
| 11-August 87 | 34.00 | 27.50 | 5.00 |
| 21-July 89 | 85.00 | 31.10 | 5.50 |
| 15-Feb 91 | 39.00 | 34.90 | 6.00 |
| 21-Nov. 91 | 42.80 | 42.80 | 7.00 |
| 1-Nov. 92 | 49.25 | 49.25 | 8.00 |
| 1-Feb. 94 | 55.50 | 55.50 | 9.00 |
| 21-January 95 | 62.50 | 62.50 | 10.00 |
| 31-January 96 | 69.90 | 69.90 | 11.00 |
| 1-January 97 | 80.15 | 77.01 | 12.00 |

Source : KCMMF

Appendix-4.36

Average Price of Livestock Products and Feeds in Kerala for the Last Six Years (Rs.)

| Item | Unit | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | % increase over 1991-92 |
|----------------------|----------|---------|---------|---------|---------|---------|---------|----------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Meat | | | | | | | | |
| Chicken | kg. | 25.97 | 30.92 | 37.00 | 43.00 | 50.00 | 60.00 | 131 |
| Mutton | kg. | 41.00 | 51.00 | 59.00 | 69.00 | 83.00 | 100.00 | 144 |
| Beef | kg. | 17.00 | 21.00 | 25.67 | 29.00 | 33.00 | 40.00 | 135 |
| Pork | kg. | 27.80 | 30.00 | 34.80 | 40.00 | 43.00 | 49.00 | 76 |
| Egg | | | | | | | | |
| Fowl | 100 Nos. | 81.00 | 95.00 | 104.53 | 115.00 | 130.00 | 145.00 | 79 |
| Duck | 100 Nos. | 127.00 | 147.75 | 159.05 | 180.00 | 200.00 | 225.00 | 77 |
| Milk | | | | | | | | |
| Cow | Litre | 5.81 | 6.75 | 7.60 | 8.75 | 9.75 | 11.00 | 89 |
| Buffalo | Litre | 6.70 | 7.85 | 8.74 | 10.00 | 11.00 | 13.00 | 94 |
| Feed Products | | | | | | | | |
| Groundnut cake | kg. | 4.90 | 5.78 | 5.77 | 7.20 | 8.25 | 10.50 | 114 |
| Coconut cake | kg. | 4.96 | 6.22 | 6.51 | 6.70 | 7.50 | 9.50 | 92 |
| Gingely oil cake | kg. | 5.22 | 6.17 | 6.25 | 7.25 | 8.25 | 10.00 | 92 |
| Fish meat | | | | | | | | |
| Straw | kg. | 1.32 | 0.60 | 1.40 | 1.90 | 2.60 | 3.00 | 127 |
| Grass | kg. | 58 | 0.18 | 0.60 | 0.90 | 1.30 | 1.50 | 159 |

Source : Department of Animal Husbandry.

Appendix- 4.37

Price Structure of Milk (average price per lit. in Rs.)

| Year | Producer | Society | Consumer | Difference in price between producer and consumer |
|---------|----------|---------|----------|---------------------------------------------------------|
| 1991-92 | 6.15 | 6.34 | 8.00 | 1.85 |
| 1992-93 | 6.15 | 6.34 | 8.00 | 1.85 |
| 1993-94 | 6.89 | 7.10 | 9.00 | 2.11 |
| 1994-95 | 7.76 | 7.99 | 10.00 | 2.24 |
| 1995-96 | 8.25 | 8.48 | 11.00 | 2.75 |
| 1996-97 | 9.26 | 8.95 | 12.00 | 2.74 |

Source : KCMMF

Appendix-4.38
District-wise Distribution of Fishermen Population in Kerala 1996-97

| Sl. No. | District | Marine | | | | Inland | | | Marine & Inland | |
|--------------|--------------------|---------------|---------------|-----------------|---------------|--------------|---------------|-----------------|-----------------|---------------|
| | | Male (3) | Female (4) | Children (5) | Total (6) | Male (7) | Female (8) | Children (9) | Total (10) | Total (11) |
| 1. | Thiruvananthapuram | 48767 | 47215 | 67048 | 163031 | 440 | 425 | 447 | 1312 | 164343 |
| 2. | Kollam | 29504 | 27013 | 35237 | 91754 | 10676 | 10175 | 12538 | 60689 | 152443 |
| 3. | Alappuzha | 33908 | 32798 | 42196 | 108902 | 20017 | 19319 | 21353 | 33389 | 142291 |
| 4. | Pathanamthitta | -- | -- | -- | -- | 352 | 430 | 629 | 1411 | 1411 |
| 5. | Kottayam | -- | -- | -- | -- | 8017 | 7836 | 8451 | 24304 | 24304 |
| 6. | Idukki | -- | -- | -- | -- | 20 | 18 | 15 | 51 | 51 |
| 7. | Emakulam | 23035 | 22301 | 25556 | 70892 | 21371 | 20784 | 20572 | 62727 | 133619 |
| 8. | Thrissur | 20998 | 21257 | 25956 | 68211 | 6392 | 6270 | 6742 | 10404 | 87615 |
| 9. | Palakkad | -- | -- | -- | -- | 281 | 317 | 414 | 1012 | 1012 |
| 10. | Malappuram | 23066 | 23597 | 31570 | 78233 | 1355 | 1348 | 1565 | 4268 | 82501 |
| 11. | Wayanad | -- | -- | -- | -- | 338 | 314 | 358 | 1010 | 1010 |
| 12. | Kozhikode | 20332 | 29233 | 36982 | 96547 | 3732 | 3619 | 4443 | 11794 | 108341 |
| 13. | Kannur | 18818 | 15969 | 21748 | 54533 | 514 | 501 | 491 | 1506 | 56039 |
| 14. | Kasaragode | 13787 | 13180 | 15705 | 42772 | 313 | 300 | 315 | 928 | 43700 |
| Total | | 240183 | 232663 | 301989 | 774815 | 73818 | 71854 | 78333 | 223805 | 998620 |

Source : Directorate of Fisheries

Appendix-4.39
Export of Marine Products from Kerala and India

| Year | Kerala | | India | |
|---------|-----------------------|-----------------------|-----------------------|-----------------------|
| | Quantity in tonnes | Value Rs. in lakhs | Quantity in tonnes | Value Rs. in lakhs |
| 1982-83 | 32525 | 14147 | 78175 | 36136 |
| 1983-84 | 32840 | 14085 | 92691 | 37302 |
| 1984-85 | 31570 | 14825 | 86147 | 38429 |
| 1985-86 | 29580 | 13803 | 83651 | 39800 |
| 1986-87 | 33906 | 16457 | 85843 | 46067 |
| 1987-88 | 35576 | 18394 | 97179 | 53120 |
| 1988-89 | 45614 | 22131 | 99777 | 59785 |
| 1989-90 | 47194 | 24081 | 110843 | 63499 |
| 1990-91 | 50997 | 31379 | 139419 | 89337 |
| 1991-92 | 58743 | 44446 | 171820 | 137589 |
| 1992-93 | 49094 | 41425 | 208602 | 176743 |
| 1993-94 | 63809 | 62153 | 243960 | 250362 |
| 1994-95 | 74576 | 81496 | 307337 | 357527 |
| 1995-96 | 78896 | 85690 | 296277 | 350111 |
| 1996-97 | 92288 | 93622 | 378199 | 412136 |

Source : MPEDA

Appendix-4.40
Marine Fish Production in India and Kerala and the Percentage Growth Rate from 1951 to 1996.
 (Qty. in lakh tonnes)

| Sl.No. | Period | Kerala | % growth | India | % growth | % share of Kerala |
|--------|--------|--------|----------|-------|----------|-------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1. | 1951 | 1.91 | -- | 55.34 | -- | 35.78 |
| 2. | 1952 | 1.29 | -32.46 | 5.28 | -1.12 | 24.48 |
| 3. | 1953 | 1.12 | -13.18 | 5.81 | 10.04 | 19.26 |
| 4. | 1954 | 1.17 | 4.46 | 5.88 | 1.20 | 19.90 |
| 5. | 1955 | 1.05 | -10.26 | 5.96 | 1.36 | 17.70 |
| 6. | 1956 | 1.52 | 44.76 | 7.19 | 20.64 | 21.18 |
| 7. | 1957 | 3.10 | 103.95 | 8.76 | 21.84 | 35.40 |
| 8. | 1958 | 2.95 | -4.84 | 7.56 | 13.70 | 38.98 |
| 9. | 1959 | 1.91 | 135.25 | 5.85 | 122.62 | 32.74 |
| 10. | 1960 | 3.45 | 80.63 | 8.80 | 50.43 | 39.17 |
| 11. | 1961 | 2.67 | -22.61 | 6.84 | -22.27 | 39.13 |
| 12. | 1962 | 1.91 | -28.46 | 6.44 | -5.85 | 29.71 |
| 13. | 1963 | 2.02 | 5.76 | 6.55 | 1.71 | 30.87 |
| 14. | 1964 | 3.18 | 57.43 | 8.60 | 31.30 | 36.99 |
| 15. | 1965 | 3.39 | 6.60 | 8.33 | -3.14 | 40.73 |
| 16. | 1966 | 3.47 | 2.36 | 8.90 | 6.84 | 38.95 |
| 17. | 1967 | 3.64 | 4.90 | 8.92 | 0.22 | 40.83 |
| 18. | 1968 | 3.45 | -5.22 | 9.35 | 4.82 | 36.95 |
| 19. | 1969 | 2.95 | -14.49 | 9.14 | -2.25 | 32.27 |
| 20. | 1970 | 3.93 | 33.22 | 10.77 | 17.83 | 36.46 |
| 21. | 1971 | 4.45 | 13.23 | 11.81 | 7.80 | 38.35 |
| 22. | 1972 | 2.96 | -33.48 | 9.80 | -15.59 | 30.16 |
| 23. | 1973 | 4.48 | 51.35 | 12.20 | 24.49 | 38.74 |
| 24. | 1974 | 5.20 | 16.07 | 12.18 | -0.16 | 34.51 |
| 25. | 1975 | 4.21 | -19.04 | 14.23 | 16.83 | 29.58 |
| 26. | 1976 | 3.31 | -21.38 | 13.53 | -4.92 | 24.47 |
| 27. | 1977 | 3.45 | 4.23 | 12.60 | -6.87 | 27.39 |

Contd..... Appendix-4.40

| (1) | (2) | (3) | (4) | (5) | (8) | (7) |
|-----|------|------|--------|-------|-------|-------|
| 28. | 1978 | 3.73 | 8.12 | 14.04 | 11.43 | 26.06 |
| 29. | 1979 | 3.32 | -11.26 | 13.88 | -4.70 | 23.81 |
| 30. | 1980 | 2.80 | -15.41 | 12.50 | -9.94 | 22.37 |
| 31. | 1981 | 2.74 | -2.14 | 14.45 | 15.60 | 18.99 |
| 32. | 1982 | 3.26 | 18.98 | 14.27 | -1.25 | 22.82 |
| 33. | 1983 | 3.86 | 18.40 | 15.19 | 8.45 | 25.39 |
| 34. | 1984 | 3.93 | 1.81 | 17.79 | 17.12 | 22.11 |
| 35. | 1985 | 3.33 | -15.27 | 17.34 | -2.53 | 19.17 |
| 36. | 1986 | 3.36 | 0.90 | 17.08 | -1.50 | 19.66 |
| 37. | 1987 | 2.83 | -15.77 | 16.52 | -3.28 | 17.14 |
| 38. | 1988 | 4.69 | 65.72 | 17.75 | 7.45 | 26.41 |
| 39. | 1989 | 6.18 | 31.77 | 22.30 | 25.63 | 29.03 |
| 40. | 1990 | 6.63 | 7.28 | 21.62 | -3.05 | 30.66 |
| 41. | 1991 | 5.64 | -14.93 | 22.22 | 2.78 | 25.39 |
| 42. | 1992 | 5.61 | -0.53 | 22.77 | 2.48 | 24.63 |
| 43. | 1993 | 5.75 | 2.50 | 22.45 | -1.41 | 25.60 |
| 44. | 1994 | 5.68 | -1.22 | 23.60 | 5.12 | 24.07 |
| 45. | 1995 | 5.32 | -6.34 | 22.60 | -4.24 | 23.54 |
| 46. | 1996 | 5.72 | 7.52 | 24.10 | 6.64 | 23.73 |

Source : Facts and figures' published by Fisheries Department.

Appendix-4.41

Details of Crafts in Operation in the Marine Sector 1997

| Sl.No. | District | Mechanised | Motorised | Non-motorised | Total |
|--------|--------------------|------------|-----------|---------------|-------|
| (1) | (2) | (3) | (4) | (5) | (8) |
| 1. | Thiruvananthapuram | 39 | 3521 | 12243 | 15803 |
| 2. | Kollam | 1401 | 2674 | 1731 | 5806 |
| 3. | Alappuzha | 308 | 3681 | 1644 | 5633 |
| 4. | Emakulam | 1648 | 818 | 2013 | 4479 |
| 5. | Thrissur | 163 | 919 | 1612 | 2894 |
| 6. | Malappuram | 219 | 1475 | 2748 | 4442 |
| 7. | Kozhikode | 755 | 2308 | 4171 | 7234 |
| 8. | Kannur | 546 | 1124 | 1655 | 3325 |
| 9. | Kasargod | 151 | 1419 | 1628 | 3198 |
| Total | | 5230 | 17939 | 29445 | 52614 |

Source : Directorate of Fisheries

Appendix-4.42
Species-wise Inland Fish Production in Kerala from 1993-94 to 1996-97
(Quantity in Tonnes)

| Sl. No | Species | 1993-94 | | 1994-95 | | 1995-96 | | 1996-97 | | Variation | |
|--------|--------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|-------------|---------------|
| | | Actual | Percentage | Actual | Percentage | Actual | Percentage | Actual | Percentage | Actual | Percentage |
| 1 | Prawns | 11306 | 24.88 | 12265 | 25.45 | 11984 | 25.45 | 12531 | 24.05 | + 547 | 21.71 |
| 2 | Etroplus | 4313 | 9.48 | 4468 | 9.27 | 4660 | 9.27 | 4883 | 9.37 | + 243 | 9.65 |
| 3 | Murrels | 3859 | 8.49 | 4179 | 8.67 | 4386 | 8.67 | 4618 | 8.86 | + 232 | 9.21 |
| 4 | Tilapia | 8295 | 13.84 | 8836 | 14.18 | 7347 | 14.18 | 7732 | 14.84 | + 385 | 15.28 |
| 5 | Catfish | 4157 | 9.14 | 4546 | 8.43 | 4882 | 9.43 | 4928 | 9.48 | + 46 | 1.83 |
| 6 | Jew Fish | 2431 | 5.34 | 2566 | 5.32 | 2652 | 5.32 | 2791 | 5.36 | + 139 | 5.52 |
| 7 | Others | 13121 | 28.85 | 13332 | 27.86 | 13695 | 27.66 | 14622 | 28.06 | + 927 | 36.80 |
| | Total | 45482 | 100.00 | 48192 | 100.00 | 49586 | 100.00 | 52105 | 100.00 | 2519 | 100.00 |

Source : Directorate of Fisheries

Appendix-4.43
Species-wise Composition of Marine Fish Landings in Kerala
(Quantity in Tonnes)

| Sl.No. | Species | 1992 | 1993 | 1984 | 1985 | 1986 |
|--------|-------------------------------|---------------|---------------|---------------|---------------|---------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1. | Elasmobranchs | 3323 | 4432 | 5887 | 4108 | 4422 |
| 2. | Cat fish | 1028 | 597 | 499 | 308 | 390 |
| 3. | Chirocentrus | 959 | 1707 | 1460 | 983 | 1378 |
| 4. | (a) Oil Sardine | 16867 | 49675 | 1554 | 13328 | 30807 |
| | (b) Other Sardine | 54118 | 22819 | 16482 | 46131 | 6737 |
| 5. | Anchoviella | 48217 | 49477 | 31710 | 36683 | 29744 |
| 6. | Thrissocius & other Clupeoids | 33208 | 18190 | 20196 | 14509 | 26604 |
| 7. | Perches | 50159 | 74813 | 60180 | 47620 | 71157 |
| 8. | Redmulletts | 7583 | 2489 | 382 | 174 | 83 |
| 9. | Soleenids | 15603 | 14657 | 16734 | 9979 | 17720 |
| 10. | Ribbon Fishes | 6162 | 7290 | 15435 | 4841 | 21884 |
| 11. | Carengids | 12991 | 20725 | 15836 | 13075 | 15193 |
| 12. | Leiognethus | 4480 | 6548 | 4238 | 4005 | 4536 |
| 13. | Lactentus | 907 | 907 | 1135 | 561 | 2208 |
| 14. | Pomfrets | 2801 | 2654 | 3391 | 1675 | 3844 |
| 15. | Meckerel | 37909 | 59172 | 111879 | 78515 | 128411 |
| 16. | Seer fish | 8734 | 6447 | 5837 | 5910 | 4828 |
| 17. | Tunnies | 16819 | 13257 | 14395 | 10977 | 17923 |
| 18. | Soles | 28445 | 20618 | 20999 | 12385 | 15768 |
| 19. | (a) Prawn | 51131 | 48119 | 71974 | 43406 | 46279 |
| | (b) Lobster & Crustaceans | 17800 | 24797 | 25252 | 13700 | 12808 |
| 20. | Cephalopods | 31424 | 28905 | 38275 | 43942 | 34557 |
| 21. | Miscellaneous | 111005 | 96534 | 57093 | 125030 | 75173 |
| | Total | 560742 | 574739 | 568034 | 531646 | 572055 |

Source : Directorate of Fisheries

Details of Fisheries Works under Harbour Engineering Department

| Sl. No. | Name of project | Total estimate cost | | Year of starting | Year of completion targetted | Expenditure upto 3/97 (lakhs) | Remarks (Present stage) |
|----------------------------------------------------|---------------------------------------------|------------------------------|------------------------------|----------------------|------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Original cost (Rs. in lakhs) | Revised cost (Rs. in lakhs) | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| A. | | | | | | | |
| 1. | Vizhinjam Fishery Harbour Stage I, II & III | 173.00 | 208.00 1100.00 1585.00 | 1962 1980 1980 | 1980 1997 1988 | 1065.21 736.03 | Completed. Construction of wharf, auction hall & gear shed are in progress. The work almost completed and harbour, except 100m wharf partially commissioned. Balance portion of 98m wharf at Sakthikulanga side not commenced for want of land. |
| 3. | Thangassery Fishery Harbour | 1411+569.50 1980.50 | Nil | 1991 | 1997 | 1840.61 | Work in progress |
| 4. | Munambam Fishery Harbour | 710.00 | 1244.00 | 1991 | 1997 | 1188.86 | Work in progress |
| 5. | Puthiyappa Fishery Harbour | 527.00 | 962.50 | 1988 | 1996 | 1029.38 | Work almost completed and the scheme commissioned on 2-2-96. |
| 8. | Chombal Fishery Harbour | 556.00 | Nil | 1992 | 1997 | 288.93 | Work in progress |
| 7. | Mopla Bay Fishery Harbour | 584.00 | Nil | 1992 | 1997 | 445.90 | Work in progress |
| 8. | Kayamkulam | 624.60 | Nil | 1998 | 1998 | 46.34 | Works in progress |
| B. Fish Landing Centre for Mechanised Boats | | | | | | | |
| 1. | New Maha | 28.43 | -- | 1988 | 1993 | 41.11 | Work completed and commissioned |
| 2. | Thottappally | 26.27 | -- | 1984 | 1994 | 53.61 | -do- |
| 3. | Palacode | 15.00 | -- | 1986 | 1994 | 20.20 | Lend acquisition, water supply arrangements, canteen and provision store, security room, electrification, approach road, etc. are completed. |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------------------------------------------|----------------------|-------------------------|-------|------|------|-------|------------------------------------------------------------------|
| 4. | Cheruvathoor | 18.43 | 29.00 | 1982 | 1994 | 29.37 | Completed & Commissioned |
| 5. | Dharmadom | 20.95 | -- | 1986 | 1994 | 25.49 | Commissioned |
| 8. | South Peravoor | 34.94 | -- | 1980 | 1994 | 3.49 | Scheme deferred due to development of Thankenery Fishery Harbour |
| 7. | Cheftuval | 19.50 | -- | 1989 | 1994 | 30.97 | Commissioned |
| 8. | Kasaragod | 13.44 | 36.50 | -- | 1986 | 40.72 | Work completed |
| 9. | Munakkekadevu | 10.25 | -- | 1982 | 1986 | 23.74 | Work completed |
| 10. | Neeleswaram | 10.25 | 30.73 | 1981 | 1985 | 28.15 | Work completed |
| C. Fish Landing Centre for Traditional Fishermen | | | | | | | |
| 1. | Vizhinjam North | 18.70 | -- | 1988 | -- | 5.20 | Work terminated |
| 2. | Vizhinjam South | 19.10 | -- | 1988 | -- | 24.52 | Partially completed |
| 3. | Vallikunnu | 17.90 | -- | 1985 | -- | 19.41 | Commissioned |
| 4. | Vellayil beach | 22.00 | -- | 1988 | -- | 33.13 | Commissioned |
| 5. | Cheilit Gopalepetteh | 25.00 | -- | 1985 | -- | 32.52 | Commissioned |
| 6. | Quilon Port | 22.00 | -- | -- | -- | Nil | Scheme deferred |
| 7. | Arthungal | 32.22 | -- | -- | -- | 21.34 | Commissioned |
| 8. | Quilandy | 23.00 | -- | -- | -- | 22.15 | Commissioned |
| 9. | Punnapra | 47.25 (including LA) | -- | -- | -- | 17.75 | Wok in progress |
| 10. | Kattoor-Pollathal | 59.00 | -- | -- | -- | 24.83 | Work in progress |

Source : Harbour Engineering Dept.

NCDC Assisted Integrated Fisheries Development Project - Details of Physical and Financial Achievements under phase I, II and III

(Rs. in Lakhs)

| Project Components | Phase I | | Phase II | | Phase III | | Total | | |
|--------------------------------------------------------------------------|-----------------|------------------|-----------------|--------------------------------------------|-----------------|------------------|-----------------|------------------|------------------|
| | Physical (1) | Financial (2) | Physical (3) | Financial (4) | Physical (5) | Financial (6) | Physical (7) | Financial (8) | Financial (9) |
| I. Inputs | | | | | | | | | |
| 1. Crafts | 395 | .. | .. | 406 | .. | 1257 | .. | 2058 | .. |
| 2. OBM Nos | 819 | 378.19 | .. | 816 | 803.68 | 2466 | 2499.69 | 4101 | 3681.56 |
| 3. Webbings (Kg) | 64790 | .. | .. | 148921 | .. | 1771400 | .. | 1985111 | .. |
| 4. OBM service Centres one Regional workshop and one mobile service unit | 2 | 12.38 | .. | .. | .. | .. | .. | .. | 12.38 |
| II. Infrastructure Transport and Insulated vans (Nos) | 6 | 8.46 | .. | Vanitha Bus-2 Cycles - 10 Autos - 44 | 51.65 | .. | .. | .. | 60.11 |
| III. Extension | .. | 78.15 | .. | .. | 17.29 | .. | 344.90 | .. | 440.34 |
| IV. Training | .. | 8.34 | .. | .. | 9.53 | .. | .. | .. | .. |
| V. Non Formal Education | .. | 4.00 | .. | .. | .. | .. | 1384.09 | .. | 1352.00 |
| VI. Working Capital | .. | 8.47 | .. | .. | 18.95 | .. | .. | .. | .. |
| VII. Pre-operative Expenses | .. | 30.00 | .. | .. | 10.35 | .. | .. | .. | .. |
| VIII. Physical & Price Contingencies | .. | 27.85 | .. | Project management | 122.83 | 15988 | .. | 27788 | .. |
| IX. No. of beneficiaries | 4577 | .. | .. | 7223 | .. | .. | .. | .. | .. |
| Total | | 555.84 | | 1034.28 | | 4228.88 | | 5818.80 | |

Source : Directorate of Fisheries

(OBM - Out Board Motor)

Details of Welfare and Relief Schemes Implemented by the Kerala Fishermen's Welfare Fund Board - 1996-1997

| Sl.No. | Details of Scheme | Year of sterling | Rete of assistance (in Rupees) | No. of beneficiaries | Amount Spent (lakhs) |
|--------|---------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------|----------------------|----------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Group Insurance Scheme | | | | |
| | A. Accidental Death (Started on 10-9-1986) | 10-9-86 | 50,000 | 71 | 20.17 |
| | B. Permanent Total Disability | 10-9-90 | 50,000 | 1 | 0.25 |
| | C. Permanent-partial Disability | 10-9-92 | 25,000 | 7 | 0.86 |
| | Total | | | | |
| 2. | Death while fishing of immediately thereafter not due to accident (started on 10-9-86) | 10-9-96 | 15,000 | 39 | 5.85 |
| 3. | Financial Assistance for the Marriage of Daughters of Fishermen (started on 1-1-87) | 1-1-87 1-4-95 | 1,500 | 1330 | 19.95 |
| 4. | Financial Assistance for the Death of dependents of Fishermen (started On 1-1-87) | 1-1-87 1-1-91 | 250 300 | 897 | 2.89 |
| 5. | Fishermen Pension (started on 2-10-86) | 1-2-87 1-7-92 1-7-97 | 75 85 100 | 25736 | 236.95 |
| 6. | Financial Assistance for temporary disability of Fishermen due to accident (started on 4-4-87) | 4-4-87 1-1-91 | 300 500 | 1172 | 4.08 |
| 7. | Financial Assistance for the Expenses for death of Fishermen (started on 4-4-87) | 4-4-87 1-1-91 | 250 5000 | 315 | 2.90 |
| 8. | e) Cash award to Fishermen students who secured highest mark in S.S.L.C. exam (started on 7-5-90) | 7-5-90 | 2000 1000 | | |
| | b) Scholarships for continuous study who secured 1st and 2nd prize in the State in S.S.L.C. for 2 years | 3-94 | 3000 2000 1000 100 | 13 6 | 0.16 0.04 |
| 9. | Financial Assistance to who go for sterilisation operation (started on 1-1-91) | 1-1-91 9-4-94 | 250 500 | 1077 | 5.375 |

| (1) | (2) | (3) | (4) | (5) | (6) |
|-----|-------------------------------------------------------------------------------------------------------|----------|------------------|-----|-------|
| 10. | a) Financial Assistance for Fatal Disease (started on 1-4-95) | 1-4-95 | 40000 | 73 | 7.032 |
| | b) Pension to irrecoverable patients | | 100 | 7 | 0.07 |
| | SPECIAL SCHEMES | | | | |
| 11. | 1) Financial Assistance to the Fishermen of inland area who affected fish disease (1991-92) (1992-93) | | | | |
| | 2) Free ration to Fishermen and workers affected by ban on bottom trawling in 1989 | | | | |
| | 3) Financial Assistance to the victim of Fire Accident | | | | |
| | 4) Special cases sanctioned by the Board for death, disability, medical treatment etc. | | -- | -- | 4.45 |
| 12. | Sanitation Scheme | 20-5-96 | 2500 | 900 | 10.19 |
| 13. | Eye Camp | 31-10-96 | -- | -- | 0.25 |
| 14. | Chairman's Relief Fund (Assistance to victims of natural calamity) | 27-11-96 | Rs.100 to 2500/- | 30 | 0.53 |
| 15. | Maternity Bebefit Scheme | 1-8-97 | Rs.500/- | -- | -- |

Appendix- 4.47
Division-wise Area of Forest In Kerala (Provisional)

| Sl.No. | Division | Area in Sq.kms. as on 31-3-1997 | | | | Total |
|--------|-------------------------|---------------------------------|------------------------------------|----------------------|------------|-------|
| | | Reserve Forest (3) | Proposed for Reserve Forest (4) | Vested Forest (5) | (6) | |
| 1. | Thiruvananthapuram | 360.0790 | 5.8253 | 3.9750 | 369.8793 | |
| 2. | Thennala | 198-5007 | -- | 7.6854 | 206.1661 | |
| 3. | Achankovil | 268.7940 | -- | 0.2060 | 269.0000 | |
| 4. | Ranni | 1050-2894 | 7.1670 | 1.6110 | 1059.0874 | |
| 5. | Punalur | 280.0507 | -- | 0.1690 | 280.2197 | |
| 6. | Konni | 320.6430 | 11.0210 | -- | 331.6640 | |
| 7. | Kothamnagalam | 316.8650 | -- | 0.1523 | 317.0173 | |
| 8. | Mannar | 662.7502 | 47.2580 | 5.8349 | 715.8411 | |
| 9. | Kottayam | 655.4860 | 5.2570 | 31.4090 | 692.1520 | |
| 10. | Vazhachal | 413.9438 | -- | -- | 413.3438 | |
| 11. | Chalakkudi | 279.7098 | -- | -- | 279.7098 | |
| 12. | Malayattoor | 617.2411 | 0.5248 | -- | 617.7659 | |
| 13. | Thrissur | 20402931 | -- | -- | 210.8361 | |
| 14. | Mannarkkad | 209.9800 | -- | 8.3430 | 530.1081 | |
| 15. | Nilambur North | 57.9196 | 0.0171 | 320.1261 | 393.9586 | |
| 16. | Nilambur South | 267.5110 | -- | 336.0213 | 365.4408 | |
| 17. | Palakkad | 73.4100 | -- | 97.9298 | 238.4021 | |
| 18. | Nannara | 205.5173 | -- | 164.9921 | 339.4124 | |
| 19. | Kozhikode | -- | -- | 133.8951 | 290.8289 | |
| 20. | Wayanad North | 133.9031 | 86.1388 | 204.6901 | 215.8864 | |
| 21. | Wayanad South | 67.6005 | 15.0644 | 66.9189 | 326.1425 | |
| 22. | Kannur | 206.5127 | 6.1020 | 252.4400 | 290.3276 | |
| 23. | Thiruvananthapuram W.L. | 128.0000 | -- | 83.8149 | 128.0000 | |
| 24. | Idukki | 102.1600 | 28.3640 | -- | 130.5240 | |
| 25. | Thekkadi | 777.0000 | 0.5438 | -- | 777.5438 | |
| 26. | Agasthyavanam | 30.4470 | 0.6730 | -- | 31.1200 | |
| 27. | Parambikulam | 274.1408 | -- | -- | 274.1408 | |
| 28. | Wayand | 366.9074 | -- | 32.6428 | 399.5502 | |
| 29. | Silent Valley | 89.5165 | -- | -- | 89.5165 | |
| 30. | Senthuruni | 148.8200 | -- | 4.5000 | 153.3200 | |
| 31. | Eravikulam | 187.4420 | -- | -- | 187.4420 | |
| 32. | Peechi | 201.7250 | -- | -- | 201.7250 | |
| | Total | 9157.1587 | 213.9542 | 1755.3373 | 11126.4502 | |

Source : Forest Dept.

Appendix-4.48
Species-wise Area Under Forest Plantation - 1996-97 (Provisional)

| Sl.No (1) | Name of Species (2) | Area in Hectre | | | | | | | Percentage of total as on 31-3-1997 (9) |
|--------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|-----------------------------------------------|
| | | 1991-92 (3) | 1992-93 (4) | 1993-94 (5) | 1994-95 (6) | 1995-96 (7) | 1996-97 (8) | | |
| 1. | Teak | 75355 | 74914 | 74947 | 75320 | 76288 | 76010 | 47.50 | |
| 2. | Eucalyptus | 29923 | 29633 | 29066 | 28745 | 29818 | 29459 | 18.41 | |
| 3. | Softwood | 919 | 895 | 787 | 781 | 758 | 3312 | 2.07 | |
| 4. | Mixed plantation | 32887 | 33999 | 34526 | 35156 | 35692 | 34296 | 21.43 | |
| 5. | Cashew | 4558 | 4570 | 4525 | 4471 | 4470 | 4454 | 2.78 | |
| 6. | Bamboo | 646 | 996 | 1036 | 1124 | 1212 | 2114 | 1.32 | |
| 7. | Wattle | 3735 | 3890 | 3811 | 3811 | 3336 | 3316 | 2.07 | |
| 8. | Hardwood | 849 | 859 | 847 | 863 | 883 | 817 | 0.51 | |
| 9. | Fuelwood | 96 | 138 | 165 | 165 | 165 | 150 | 0.09 | |
| 10. | Pepper | 408 | 459 | 439 | 439 | 454 | 270 | 0.17 | |
| 11. | Mahogany | 169 | 169 | 169 | 169 | 153 | 143 | 0.09 | |
| 12. | Pine | 452 | 452 | 452 | 452 | 897 | 965 | 0.60 | |
| 13. | Rosewood | 155 | 155 | 164 | 263 | 267 | 290 | 0.18 | |
| 14. | Balsa | 93 | 93 | 93 | 93 | 93 | 93 | 0.06 | |
| 15. | Cardamom | -- | -- | -- | -- | -- | -- | -- | |
| 16. | Sandal wood | 11 | 11 | 11 | 21 | 166 | 183 | 0.12 | |
| 17. | Kongu | -- | -- | -- | -- | -- | -- | -- | |
| 18. | Lilyesiyam | -- | -- | -- | -- | -- | -- | -- | |
| 19. | Others | 3502 | 3855 | 4034 | 3877 | 4050 | 4164 | 2.60 | |
| Total | | 153758 | 155088 | 155072 | 155750 | 158682 | 160036 | 100.00 | |

Source : Forest Dept.

Production of Major Forest Produce

| Sl.No. | Item | Unit | 1993-94 | 1994-95 | 1995-96 | 1996-97 provisional | Actual increase or decrease over the year |
|--------|------------------------|------|----------|----------|----------|------------------------|----------------------------------------------|
| 1. | Timber (Round logs) | cum | 78691 | 123501 | 61430 | 51972 | -9458 |
| 2. | Timber (Round poles) | Nos. | 725231 | 779507 | 361179 | 683391 | + 322212 |
| 3. | Timber (Swan & Squard) | cum | 226 | 10 | 30 | 4 | -28 |
| 4. | Fire wood | MT. | 33409 | 82888 | 45336 | 29877 | -15459 |
| 5. | Charcoal | Kg. | 705 | 293250 | -- | -- | -- |
| 6. | Cardamom | Kg. | 1459 | 4379 | 3155 | 1233 | - 1922 |
| 7. | Honey | Kg. | 65655 | 37512 | 74787 | 72161 | - 2626 |
| 8. | Reeds | Nos. | 64783879 | 57647490 | 49615070 | 56840410 | + 7225340 |
| 9. | Bamboo | Nos. | 1810194 | 1596297 | 1339741 | 4829421 | + 3489680 |
| 10. | Jungle Wood Poles | Nos. | 174 | 5282 | 64 | 289 | + 225 |
| 11. | Sandalwood | Kg. | 218424 | 112726 | 133847 | 103523 | - 30324 |

Source : Forest Dept.

Appendix-4.50
Forest Revenue in Kerala

| Sl.No | Items | Sale Proceeds | | | | | Increase or decrease | | Percentage |
|-------|-----------------------|---------------|----------|----------|----------|----------|----------------------|------------|------------|
| | | 1992-93 | 1993-94 | 1994-95 | 995-96 | 1996-97 | increase | decrease | |
| A. | Revenue from Forests | | | | | | | | |
| 1. | Timber | 6794.63 | 9043.50 | 11847.95 | 13890.86 | 13598.36 | (-) 292.50 | (-) 2.11 | |
| 2. | Firewood and Charcoal | 89.30 | 100.89 | 107.38 | 261.00 | 151.74 | (-) 109.26 | (-) 41.86 | |
| 3. | Livestock | 1.48 | 7.63 | 3.14 | 1.64 | 2.61 | (+) 0.97 | (+) 59.15 | |
| 4. | Others | 654.02 | 683.74 | 1294.49 | 1327.07 | 1423.78 | (+) 96.71 | (+) 7.29 | |
| 5. | Sub total (A) | 7539.43 | 9835.76 | 13252.96 | 15480.07 | 15176.49 | (-) 304.08 | (-) 19.64 | |
| B. | Other receipts | 348.68 | 483.45 | 462.20 | 610.74 | 1085.34 | (+) 474.60 | (+) 77.71 | |
| C. | Total (A+B) | 7888.11 | 10319.21 | 13715.16 | 16091.31 | 16261.83 | (+) 170.52 | (+) 1.06 | |
| D. | Refunds | 16.72 | 23.37 | 26.66 | 14.77 | 61.56 | (+) 46.79 | (+) 316.79 | |
| E. | Net Revenue (C-D) | 7871.39 | 10295.84 | 13688.50 | 16076.54 | 16200.27 | (+) 123.73 | (+) 0.77 | |

Source : Forest Dept.

Appendix: 4.51

Commodities Handled by MARKETFED

(Rs. in Lakhs)

| Sl.No. | Particulars | Sales | | | |
|--------|------------------------------------|-------------|---|-------------|---|
| | | 1995-96 | 3 | 1996-97 | 4 |
| 1. | Spices | 335 | | 1263 | |
| 2. | Copra and Coconut Oil | 1419 | | 950 | |
| 3. | Fertilizers | 1777 | | 1540 | |
| 4. | Pesticides | 1235 | | 31 | |
| 5. | Arecanut | 295 | | 346 | |
| 6. | Cement | -- | | -- | |
| 7. | Raw Cashewnut | 15 | | 26 | |
| 8. | Rubber | 70 | | 185 | |
| 9. | Others | 18 | | 13 | |
| | Total | 5164 | | 4354 | |
| | Copra procured for crushing | 763 | | 893 | |

Source : Kerala State Co-operative Marketing Federation

Appendix: 4.52(a)

Operation of CAMPCO during 1995-96 and 1996-97

| Sl.No. | Commodity | 1995-96 | | 1996-97 | |
|--------|-----------------|---------|-------|---------|-------|
| | | Qtys | Value | Qty | Value |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Arecanut | | | | |
| | a) Procurement | 25216 | 18106 | 27923 | 23003 |
| | b) Sales | 24469 | 19009 | 26055 | 22328 |
| 2. | Cocoa | | | | |
| | a) Cocoa pods | 26 | 1 | 17 | 1 |
| | b) Wel Beans | 5370 | 1006 | 4908 | 956 |
| | c) Dry Beans | 17 | 12 | 3 | 2 |
| 3. | Copper Sulphate | 228 | 129 | 250 | 138 |

Source : CAMPCO

Appendix:4.52(b)

Production and sale of Chocolate by CAMPCO

| Sl. No. | Item | Production Quantity (MT) | Sales Quantity (MT) | Value (Rs Lakhs) |
|---------|---------------------------|--------------------------|---------------------|------------------|
| 1995-96 | | | | |
| 1. | Chocolate | 466.1 | 496.1 | 471.8 |
| 2. | Semi finished | 827.9 | 596.6 | 608.5 |
| 3. | Internal sales for Nestle | 3097.4 | 457.2 | 602.3 |
| 1996-97 | | | | |
| 1. | Chocolate | 517.3 | 509.0 | 517.00 |
| 2. | Semi Finished | 642.0 | 969.3 | 696.15 |
| 3. | Internal Sales for Nestle | 2433.2 | 349.4 | 467.00 |

Source : CAMPCO

Performance Details of KERAFED for the Years 1995-96 and 1996-97
(All Quantities in 'MT' and Values in Rs. Lakhs)

| Activity | 1995-96 | 1996-97 |
|---------------------|---------|---------|
| 1 | 2 | 3 |
| Copra Procured | | |
| Quantity | 4,069 | 8,379 |
| Value | 2,207 | 2,771 |
| Copra Crushed | | |
| Quantity | 10,460 | 8,161 |
| Sales | | |
| a) Copra | | |
| Quantity | 3,798 | 941 |
| Value | 952 | 246 |
| b) Coconut Oil | | |
| Quantity | 7,673 | 4,905 |
| Value | 2,614 | 2,478 |
| c) Coconut Oil Cake | | |
| Quantity | 375 | 2,721 |
| Value . | 29 | 260 |

Source : KERAFED

Agency-wise Disbursement of Refinance Assistance by NABARD in Kerala (Rs. in crores)

| Sl. No. | District | 1991-92 | | 1992-93 | | 1993-94 | | 1994-95 | | 1995-96 | | 1996-97 | |
|---------|----------------------|---------------|----------|---------------|----------|---------------|----------|---------------|-----------|----------------|-----------|----------------|-----------|
| | | Amount (3) | % (4) | Amount (5) | % (6) | Amount (7) | % (8) | Amount (9) | % (10) | Amount (11) | % (12) | Amount (13) | % (14) |
| 1. | KSCARD Bank Ltd. | 29.69 | 35.11 | 39.42 | 37.94 | 54.00 | 43.10 | 51.86 | 41.11 | 78.50 | 61.80 | 131.97 | 71.70 |
| 2. | Commercial Banks | 31.21 | 36.91 | 37.18 | 35.78 | 40.05 | 32.00 | 43.48 | 34.46 | 23.62 | 18.60 | 9.26 | 5.00 |
| 3. | State Co-op. Banks | 18.99 | 22.45 | 20.45 | 19.68 | 19.08 | 15.20 | 18.73 | 14.85 | 12.24 | 9.60 | 15.21 | 8.30 |
| 4. | Regional Rural Banks | 4.68 | 5.53 | 6.86 | 6.60 | 12.21 | 9.70 | 12.08 | 9.58 | 12.66 | 10.00 | 27.62 | 15.00 |
| | Total | 84.57 | 100.00 | 103.91 | 100.00 | 125.34 | 100.00 | 126.15 | 100.00 | 127.02 | 100.00 | 184.08 | 100.00 |

Source : NABARD.

Purpose-wise Disbursement by NABARD (Rs. in Crores)

| Sl. No. | District | 1991-92 | | 1992-93 | | 1993-94 | | 1994-95 | | 1995-96 | | 1998-97 | |
|---------|---------------------------|------------------|----------|------------------|----------|------------------|----------|------------------|-----------|-------------------|-----------|-------------------|-----------|
| | | Refinance (3) | % (4) | Refinance (5) | % (6) | Refinance (7) | % (8) | Refinance (9) | % (10) | Refinance (11) | % (12) | Refinance (13) | % (14) |
| 1. | Minor Irrigation | 15.08 | 17.81 | 21.38 | 20.60 | 19.62 | 15.70 | 16.12 | 12.80 | 23.04 | 18.10 | 26.09 | 14.20 |
| 2. | Land Development | 2.37 | 2.80 | 2.17 | 2.10 | 1.39 | 1.10 | 2.70 | 2.10 | 3.97 | 3.10 | 9.24 | 5.00 |
| 3. | Farm Mechanisation | 2.55 | 3.02 | 4.70 | 4.50 | 4.29 | 3.40 | 5.09 | 4.00 | 3.78 | 3.00 | 3.79 | 2.10 |
| 4. | Plantation & Horticulture | 22.50 | 26.61 | 20.77 | 20.00 | 23.24 | 18.50 | 22.95 | 18.20 | 24.33 | 19.20 | 42.17 | 22.90 |
| 5. | Dairy Development | 5.05 | 5.98 | 4.62 | 4.40 | 3.82 | 3.00 | 5.14 | 4.10 | 6.74 | 5.30 | 10.42 | 5.70 |
| 6. | Fisheries | 1.26 | 1.49 | 1.57 | 1.50 | 2.05 | 1.60 | 1.52 | 1.20 | 2.09 | 1.60 | 2.22 | 1.20 |
| 7. | Poultry | 0.67 | 0.79 | 1.39 | 1.30 | 2.09 | 1.70 | 2.41 | 1.90 | 3.81 | 3.00 | 8.42 | 4.60 |
| 8. | Bio-gas | -- | -- | 0.22 | 0.20 | 0.34 | 0.30 | 0.15 | 0.10 | 0.11 | 0.10 | 0.10 | 0.10 |
| 9. | I.R.D.P. | 14.27 | 16.87 | 14.88 | 14.30 | 12.88 | 10.30 | 14.51 | 11.50 | 6.33 | 5.00 | 8.67 | 4.70 |
| 10. | Non Farm Sector | 15.01 | 17.73 | 31.71 | 30.50 | 50.33 | 40.20 | 50.50 | 40.00 | 51.87 | 40.80 | 72.33 | 39.30 |
| 11. | Agro Processing | -- | -- | -- | -- | 5.08 | 4.10 | 5.04 | 4.00 | 0.84 | 0.70 | 0.46 | 0.20 |
| 12. | Others | 5.83 | 6.89 | 0.50 | 0.50 | 0.22 | 0.20 | 0.02 | -- | 0.11 | 0.10 | 0.15 | 0.10 |
| | Total | 84.57 | 100.00 | 103.91 | 100.00 | 125.34 | 100.00 | 126.15 | 100.00 | 127.02 | 100.00 | 184.06 | 100.00 |

Source : NABARD.

Broad Sector-wise Credit Projections for 1998-99 for Priority Sectors

(Rs. in lakhs)

| Sl.No. | District | Total Financial Outlay | | | | | | Bank Loan | | |
|--------|--------------------|------------------------|------------------|-----------------|--------------|----------------|------------------|-----------------|---------------|--|
| | | Primary (3) | Secondary (4) | Tertiary (5) | Total (6) | Primary (7) | Secondary (8) | Tertiary (9) | Total (10) | |
| 1. | Thiruvananthapuram | 13554.30 | 10035.29 | 14365.88 | 37955.47 | 12753.51 | 8311.09 | 11492.70 | 32557.30 | |
| 2. | Kollam | 8959.07 | 30978.12 | 7625.00 | 47562.19 | 8396.67 | 30810.51 | 7625.00 | 46832.18 | |
| 3. | Alappuzha | 11622.31 | 4962.84 | 8504.04 | 25089.19 | 10247.35 | 4630.48 | 6803.44 | 21681.27 | |
| 4. | Pathanamthitta | 8946.13 | 4344.37 | 9133.50 | 22424.00 | 8486.24 | 3340.85 | 7114.32 | 18941.41 | |
| 5. | Kottayam | 28611.35 | 11393.00 | 21436.00 | 61440.35 | 18216.94 | 7731.60 | 16090.00 | 42038.54 | |
| 6. | Idukki | 4110.77 | 2165.31 | 8375.00 | 23734.96 | 12607.53 | 1716.05 | 6700.00 | 21023.58 | |
| 7. | Ernakulam | 53695.00 | 65736.40 | 21702.08 | 141133.48 | 24550.36 | 28440.77 | 17361.66 | 68352.79 | |
| 8. | Thrissur | 20136.00 | 10179.00 | 18166.00 | 48481.00 | 19305.00 | 7943.00 | 13624.00 | 40872.00 | |
| 9. | Palakkad | 16553.00 | 4301.90 | 9020.00 | 29874.97 | 15656.27 | 4091.41 | 9020.00 | 28767.68 | |
| 10. | Malappuram | 18587.18 | 3671.30 | 10200.00 | 32458.46 | 17843.16 | 3671.30 | 10200.00 | 31714.48 | |
| 11. | Kozhikode | 23812.06 | 3146.32 | 12051.00 | 39009.38 | 19310.80 | 3146.32 | 12051.00 | 34508.12 | |
| 12. | Wayanad | 16859.51 | 604.03 | 2406.80 | 19870.34 | 16342.33 | 816.72 | 2406.80 | 19365.85 | |
| 13. | Kannur | 20488.10 | 6071.01 | 19398.00 | 45957.11 | 19738.04 | 5883.91 | 14530.31 | 40152.28 | |
| 14. | Kasaragod | 12283.04 | 3431.35 | 6518.50 | 22232.39 | 11547.63 | 2653.40 | 5401.14 | 19602.17 | |
| Total | | 258217.80 | 181020.24 | 168901.30 | 588139.34 | 215001.83 | 110987.41 | 140419.57 | 466408.81 | |

Source : NABARD.

Projection of Credit, Estimated Credit Flow and Additional Resources needed for 1998-99

(Ra. in lakhs)

| Sl.No. | Item | Sectors | | | Total | |
|--------|--------------------|---------|-----------|----------|----------|----------|
| | | Primary | Secondary | Tertiary | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1. | Thiruvananthapuram | POC | 12753.51 | 8311.09 | 11492.70 | 32557.30 |
| | | ECF | 11847.25 | 6360.00 | 10062.04 | 28269.29 |
| | | ARN | 906.26 | 1951.09 | 1430.66 | 4288.01 |
| 2. | Kollam | POC | 8396.67 | 30810.51 | 7625.00 | 46832.18 |
| | | ECF | 6266.67 | 30000.51 | 7500.00 | 43767.18 |
| | | ARN | 2130.00 | 810.00 | 125.00 | 3065.00 |
| 3. | Alappuzha | POC | 10247.35 | 4630.48 | 6803.44 | 21681.27 |
| | | ECF | 9635.89 | 3500.00 | 6803.44 | 19939.33 |
| | | ARN | 611.46 | 1130.48 | -- | 1741.94 |
| 4. | Pathanamthitta | POC | 8486.24 | 3340.85 | 7114.32 | 18941.41 |
| | | ECF | 6553.13 | 2150.00 | 6300.00 | 15003.13 |
| | | ARN | 1933.11 | 1190.85 | 814.32 | 3938.28 |
| 5. | Kottayam | POC | 18216.94 | 7731.60 | 16090.00 | 42038.54 |
| | | ECF | 15872.00 | 6864.00 | 15600.00 | 38336.00 |
| | | ARN | 2344.94 | 867.60 | 490.00 | 3702.54 |
| 6. | Idukki | POC | 12607.53 | 1716.05 | 6700.00 | 21023.58 |
| | | ECF | 10161.34 | 1480.07 | 6100.00 | 17741.41 |
| | | ARN | 2446.19 | 235.98 | 600.00 | 3282.17 |
| 7. | Ernakulam | POC | 24550.36 | 26440.77 | 17361.66 | 68352.79 |
| | | ECF | 17113.68 | 17500.00 | 13550.00 | 48163.68 |
| | | ARN | 7436.68 | 8940.77 | 3811.66 | 20189.11 |

Contd.... Appendix-4.57

| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|-----|------------|-----|----------|---------|----------|----------|
| 8. | Thrissur | POC | 19305.00 | 7943.00 | 13624.00 | 40872.00 |
| | | ECF | 13318.00 | 6000.00 | 12800.00 | 32118.00 |
| | | ARN | 5987.00 | 1943.00 | 824.00 | 8754.00 |
| 9. | Palekkad | POC | 15656.27 | 4091.41 | 9020.00 | 28767.68 |
| | | ECF | 14618.23 | 3850.00 | 9020.00 | 27488.23 |
| | | ARN | 1038.04 | 241.41 | -- | 1279.45 |
| 10. | Maleppuram | POC | 17843.16 | 3671.30 | 10200.00 | 31714.46 |
| | | ECF | 14451.06 | 1986.96 | 9454.19 | 25892.21 |
| | | ARN | 3392.10 | 1684.34 | 745.81 | 5882.25 |
| 11. | Kozhikode | POC | 19310.80 | 3146.32 | 12051.00 | 34508.12 |
| | | ECF | 16814.11 | 2748.24 | 9848.00 | 29410.35 |
| | | ARN | 2496.67 | 398.08 | 2203.00 | 5097.77 |
| 12. | Wayanad | POC | 16342.33 | 616.72 | 2406.80 | 19365.85 |
| | | ECF | 9189.61 | 280.66 | 1882.98 | 11353.25 |
| | | ARN | 7152.72 | 336.06 | 523.82 | 8012.80 |
| 13. | Kannur | POC | 19738.04 | 5883.91 | 14530.31 | 40152.26 |
| | | ECF | 14446.00 | 2500.00 | 15875.00 | 32821.00 |
| | | ARN | 5992.04 | 3383.91 | -1344.69 | 7331.26 |
| 14. | Kasaragode | POC | 11547.63 | 2653.40 | 5401.14 | 19602.17 |
| | | ECF | 9958.82 | 1880.00 | 5090.00 | 16928.82 |
| | | ARN | 1588.81 | 773.40 | 311.14 | 2673.35 |

POC : Projection of Credit
 ECF : Estimated Credit Flow
 ARN : Additional Resources Needed.

Source : NABARD.

Credit Gap in Priority Sectors as per Potential Linked Credit Plan for Districts

(Rs. in Lakhs)

| Sl.No. | District | Sectors | | | Total |
|--------|--------------------|----------|-----------|----------|----------|
| | | Primary | Secondary | Tertiary | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Thiruvananthapuram | 906.26 | 1951.09 | 1430.66 | 4288.01 |
| 2. | Kollem | 2130.00 | 810.00 | 125.00 | 3065.00 |
| 3. | Aleppuzha | 611.46 | 1130.48 | -- | 1741.94 |
| 4. | Pathanamthitta | 1933.11 | 1190.85 | 814.32 | 3938.28 |
| 5. | Kottayam | 2344.94 | 867.60 | 490.00 | 3702.54 |
| 6. | Idukki | 2446.19 | 235.98 | 600.00 | 3282.17 |
| 7. | Ernekulam | 7436.68 | 8940.77 | 3811.66 | 20189.11 |
| 8. | Thrissur | 5987.00 | 1943.00 | 824.00 | 8754.00 |
| 9. | Palekkad | 1038.04 | 241.41 | -- | 1279.45 |
| 10. | Malappuram | 3392.10 | 1684.34 | 745.81 | 5822.25 |
| 11. | Kozhikode | 2496.67 | 398.08 | 2203.00 | 5097.75 |
| 12. | Wayanad | 7152.72 | 336.06 | 523.82 | 8012.60 |
| 13. | Kannur | 5292.04 | 3383.91 | 1344.69 | 7331.26 |
| 14. | Kesaragode | 1588.81 | 773.40 | 311.14 | 2673.35 |
| | Total | 44756.02 | 23886.97 | 10534.72 | 79177.71 |

Credit Gap : Additional Credit Requirements (in excess of credit available)

Source : NABARD

Loan Disbursement Under Priority Sector by Commercial Banks as per District Credit Plan

(Rs in Crores)

| Sl.No. | Year | Sectors | | | Total |
|--------|---------|-------------|--------|----------|---------|
| | | Agriculture | SSI | Tertiary | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | 1991-92 | 622.99 | 171.76 | 344.28 | 1139.03 |
| 2. | 1995-96 | 1050.96 | 527.19 | 716.73 | 2294.88 |
| 3. | 1996-97 | 1280.78 | 848.00 | 935.92 | 3062.70 |

Source : State Level Banker's Committee

Appendix: 4.60

Operations of the Kerala State Co-operative Bank Limited

| Sl. No. | Particulars | (Rs. Lakhs) | | | | |
|---------|------------------|-------------|----------|----------|--|--|
| | | 1991-92 | 1995-96 | 1996-97 | | |
| 1 | 2 | 3 | 4 | 5 | | |
| 1. | Share Capital | 1209.50 | 1801.46 | 1851.46 | | |
| 2. | Reserves | 1881.20 | 2500.00 | 2656.07 | | |
| 3. | Deposits | 27098.19 | 47461.64 | 57915.93 | | |
| 4. | Borrowings | 15203.45 | 19973.73 | 22960.66 | | |
| 5. | working Capital | 44966.62 | 71249.39 | 84893.35 | | |
| 6. | Loans & Advances | 27970.68 | 53566.00 | 52219.64 | | |
| 7. | Investments | 7461.00 | 18832.96 | 19093.64 | | |
| 8. | Net profit | 69.51 | 136.90 | 69.55 | | |

Source : Kerala State Co-operative bank Limited.

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Appendix: 4.61

Purpose wise Disbursement of Loans by the Kerala State Co-operative Bank Limited

| Sl. No. | Purpose | (Rs. Crores) | | | |
|--------------|---------------------------------------|---------------|---------------|--|--|
| | | 1995-96 | 1996-97 | | |
| 1 | 2 | 3 | 4 | | |
| 1. | Agriculture (Production & Investment) | 74.92 | 103.95 | | |
| 2. | Procurements/Marketing distribution | 203.49 | 169.52 | | |
| 3. | Cottage and small Scale Industries | 58.18 | 64.75 | | |
| 4. | Other Industries | 7.89 | 4.33 | | |
| 5. | Consumer Activities | 7.35 | 5.53 | | |
| 6. | Consumption purpose | 71.22 | 95.36 | | |
| 7. | Housing | 0.85 | 0.88 | | |
| 8. | Other purpose | 124.99 | 131.89 | | |
| Total | | 548.89 | 578.19 | | |

Source : Kerala State Co-operative bank Limited.

Appendix-4.62
Targets and Achievements of Deposit Mobilisation Programme for Co-operatives in Kerala

| Year | Target (Rs. lakhs) | Achievement (Rs. lakhs) | Achievement in terms of percentage |
|--------------|-----------------------|----------------------------|---------------------------------------|
| (1) | (2) | (3) | (4) |
| 1976 | 2000 | 2656.38 | 133 |
| 1979 | 2000 | 3698.72 | 185 |
| 1980 | 2000 | 4796.27 | 240 |
| 1981 | 2625 | 5635.64 | 214 |
| 1982 | 2500 | 8024.95 | 241 |
| 1983 | 4000 | 9367.35 | 234 |
| 1984 | 6000 | 11861.56 | 198 |
| 1986 | 6000 | 13772.60 | 230 |
| 1987 | 6000 | 13608.58 | 227 |
| 1988 | 3000 | 11314.51 | 377 |
| 1989 | 6000 | 17885.37 | 298 |
| 1990 | 6000 | 28881.12 | 481.3 |
| 1991 | 6000 | 28121.97 | 468.6 |
| 1992 | 6000 | 34681.77 | 578.02 |
| 1994 | 20000 | 47514.85 | 237.57 |
| 1995 | 20000 | 54139.77 | 270.70 |
| 1996 | 20000 | 58891.36 | 294.45 |
| 1997 | 20000 | 59210.11 | 296.05 |
| Total | 140125 | 412062.88 | 294 |

Source : Registrar of Co-operative Societies, Kerala.

Selected indicators of the Credit Operations of the Primary Agricultural Credit Societies

| Sl.No | Indicators | Unit | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|-------|------------------------------------------|-------------|--------|--------|--------|--------|--------------------|--------|
| 1. | No. of Societies | | 1579 | 1581 | 1580 | 1583 | 1589 | 1591 |
| 2. | No. of Members (Lakhs) | | 90.5 | 92.05 | 100.67 | 102.85 | 111.31 | 114.59 |
| | of which SC (lakhs) | | 8.76 | 9.29 | 9.63 | 10.24 | 10 | 11 |
| | of which ST (lakhs) | | 0.63 | 0.70 | 0.71 | 0.77 | 0.8 | 0.9 |
| 3. | Paid up share capital | (Rs. lakhs) | 9056 | 10219 | 11577 | 13478 | 14496 | 14579 |
| 4. | Reserves | " | 7386 | 8360 | 10037 | 11193 | 9075 | 9076 |
| 5. | Deposits | " | 95379 | 117757 | 150647 | 189123 | 158288 | 168506 |
| 6. | Working Capital | " | 181679 | 221424 | 267909 | 324413 | 269760 | 354765 |
| 7. | Loans issued | " | 91111 | 122985 | 149844 | 201096 | 146969 | 150382 |
| | Short-term | " | 74159 | 99043 | 120230 | 157337 | 111945 | 114709 |
| | Medium-term | " | 13771 | 19502 | 25144 | 37112 | 29936 | 30832 |
| | Long-term | " | 3181 | 4440 | 4470 | 6647 | 5068 | 4649 |
| 6. | Loan outstanding | " | 103577 | 123609 | 149480 | 184049 | 160810 | 185505 |
| 9. | Loan Overdue | " | 29024 | 25827 | 32274 | 30515 | 32773 | 32877 |
| 10. | S.T. Loan for Agricultural purpose alone | " | 28465 | 241771 | 41459 | 53516 | | |
| 11. | S.T. Loan for non-Agricultural purpose | " | 47694 | 57272 | 78771 | 103821 | | |
| 12. | M.T. Loan for Agricultural purposes | " | 5392 | 7802 | 8562 | 12448 | Total | |
| 13. | M.T. Loan for non-Agricultural purposes | " | 8371 | 11900 | 18582 | 24664 | 146949 | 150382 |
| 14. | L.T. Loan for Agricultural purposes | " | -- | 3804 | 3992 | 5841 | AGRI. 53472 | 57393 |
| 15. | L.T. Loan for non-Agricultural purposes | " | -- | 636 | 476 | 806 | Non-Agrn. 93477 | 98989 |

Contd.... Appendix-4.63

| Sl.No | Indicators | Unit | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|-------|---------------------------------------|----------------|------|------|------|------|-------|-------|
| 18. | Value of Fertilizers Sold | " | 4820 | 6837 | 7537 | 8173 | 10016 | 12118 |
| 17. | Value of Agncultural produce marketed | " | 5324 | 8044 | 5578 | 9351 | 10432 | 11009 |
| 18. | Dormant Societies | (Nos.) | 25 | 22 | 24 | 17 | 30 | 52 |
| 19. | Societies on Profit | " | 695 | 712 | 663 | 764 | 690 | 703 |
| 20. | Profit Amout | (Rs. in lakhs) | 1108 | 1590 | 1698 | 2590 | -- | -- |
| 21. | Societies on loss | (Nos.) | 831 | 809 | 874 | 784 | 854 | 844 |
| 22. | Societies without Profit or Loss | (Nos.) | 53 | 60 | 43 | 35 | 45 | 44 |
| 23. | Societs having paid Secretaries | (Nos.) | 1559 | 1562 | 1548 | 1553 | 1556 | 1562 |
| 24. | Societies having own Godowns | (Nos.) | 1423 | 1423 | 1427 | 1432 | 1453 | 1457 |
| 25. | Societies having Hired Godowns | (Nos.) | 558 | 506 | 452 | 474 | 481 | 491 |
| 26. | Vieble Societies | (Nos.) | - | - | 1477 | 1487 | 1487 | 1502 |

Source : Registrar of Co-operative Societies - Kerala. Note : Position as on 30th June is shown corresponding to each year

Appendix-4.64
Selected Indicators of the Credit Operations of the Primary Agricultural Credit Societies

| Sl.No | Indicators | Unit | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|-------|---------------------------------------------|-----------|--------|--------|--------|--------|--------|--------|
| 1. | Average membership per society | No. | 5722 | 5822 | 6372 | 6560 | 7005 | 7202 |
| 2. | Average share capital per society | Rs. lakhs | 5.74 | 6.46 | 7.33 | 8.51 | 9.12 | 9.16 |
| 3. | Average deposit per society | " | 60.40 | 74.48 | 95.35 | 119.47 | 99.61 | 168.76 |
| 4. | Average deposit per members | | 1056 | 1279 | 1496 | 1821 | 1422 | 2343 |
| 5. | Average working capital per society | Rs. lakhs | 115.06 | 140.05 | 169.56 | 205.00 | 169.76 | 222.98 |
| 6. | Average loan per member | Rs. | 1108 | 1336 | 1488 | 1936 | 1320 | 1312 |
| 7. | Percentage of borrowing members to total | | 37.16 | 39.10 | 40.61 | 43 | 27 | 27 |
| 8. | Average loan advanced for advancing society | Rs. lakhs | 59.74 | 80.70 | 99.56 | 128.00 | 92 | 95 |
| 9. | Average loan advanced per borrowing members | Rs. | 2714 | 3129 | 3665 | 4552 | 4890 | 4860 |
| 10. | Percentage of overdue to outstanding | | 28.02 | 20.89 | 21.59 | 17 | 20 | 18 |
| 11. | Percentage of overdue to demand | | 26.45 | 20.00 | 20.88 | 15 | 22 | 22 |

Source : Registrar of Co-operative Societies, Kerala. Note : Position as on 30th June is shown correspondingly to each year.

Appendix-4.65

Purpose-wise Classification of Loan Issued by PCARD Banks

| Sl.No | Ordinary Loan | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1998-97 |
|-------|------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| | PURPOSE | | | | | | |
| 1. | Construction of Wells/Tanks | 27.58 | 19.71 | 3.47 | 11.33 | 0.21 | 5.69 |
| 2. | Renovation of Wells/Tanks | -- | 1.39 | 2.71 | 2.42 | 1.81 | 7.06 |
| 3. | Pumpsets | -- | 5.42 | 3.17 | 1.83 | 0.37 | 0.85 |
| 4. | Plantation/Horticulture | 101.16 | 107.21 | 86.73 | 55.71 | 55.98 | 47.98 |
| 5. | Agricultural Machinery | -- | 0.07 | 1.45 | 14.16 | -- | -- |
| 6. | Animal Husbandry | -- | 12.77 | 5.67 | 14.06 | 4.19 | 179.98 |
| 7. | Land Development | 6.77.78 | 418.41 | 526.84 | 415.84 | 420.81 | 563.14 |
| 8. | Construction of Godowns/Cattle Sheds/ Farm Houses | 276.21 | 307.74 | 266.05 | 243.12 | 260.09 | 521.39 |
| 9. | Barbed wire or stonefencing | -- | 205.95 | 177.21 | 219.18 | 231.74 | 444.23 |
| 10. | Construction of drainage channel | -- | 0.84 | -- | -- | 0.43 | 9.29 |
| 11. | Loans for redemption of prior debts | -- | 1.00 | 0.59 | -- | -- | -- |
| 12. | Others | 61.65 | 172.72 | 113.53 | 60.93 | 91.66 | 0.47 |
| | Total | 1144.36 | 1253.23 | 1187.42 | 1038.36 | 1066.87 | 1780.08 |
| | SCHEME LOANS | | | | | | |
| 1. | Minor Irrigation | 595.81 | 517.66 | 630.70 | 883.83 | 1304.09 | 1597.87 |
| 2. | Plantation/Horticulture | 1404.00 | 1092.17 | 1803.19 | 2237.07 | 2502.58 | 3126.35 |
| 3. | Agricultural Machinery | 250.67 | 215.78 | 362.98 | 464.04 | 831.73 | 746.56 |
| 4. | Dairy | 120.04 | 147.71 | 121.94 | 264.02 | 714.38 | 700.56 |
| 5. | Land Deelopment | 169.35 | 239.70 | 38.80 | 327.12 | 786.04 | 1226.68 |
| 6. | Poultry | 50.59 | 57.24 | 142.94 | 270.22 | 399.80 | 532.78 |
| 7. | Fisheries | 53.91 | 32.67 | 58.32 | 85.56 | 80.06 | 163.45 |
| 8. | Others | 7.93 | 467.41 | 5.26 | 18.71 | 224.89 | 64.96 |
| | Total | 2653.32 | 2770.34 | 3164.13 | 4551.47 | 6861.57 | 8159.21 |

Source : Kerala State Co-operative Agricultural & Rural Development Bank.

Appendix-4.66

Loan Advanced and Debentures Floated by KSCARD Bank Ltd.

(Rs. in crores)

| Sl.No. | Year | Loan Advanced | | | | Debenture Floated | | | | Total | |
|--------|---------|---------------|--------|-------|---------------|-------------------|--------|-------|---------------|-------|--------|
| | | Ordinary | Scheme | NFS | Rural Housing | Ordinary | Scheme | NFS | Rural Housing | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
| 1. | 1988-89 | 10.78 | 14.48 | 5.23 | -- | 30.49 | 11.30 | 17.21 | 13.78 | -- | 42.29 |
| 2. | 1989-90 | 14.44 | 23.12 | 6.07 | 8.44 | 52.07 | 14.15 | 27.61 | 5.20 | -- | 46.98 |
| 3. | 1990-91 | 12.62 | 24.86 | 9.35 | 34.35 | 81.16 | 12.20 | 22.76 | 9.38 | 40.00 | 84.34 |
| 4. | 1991-92 | 11.44 | 27.82 | 10.19 | 17.29 | 66.54 | 11.00 | 23.05 | 9.18 | 10.53 | 53.74 |
| 5. | 1992-93 | 12.43 | 27.42 | 18.72 | 11.31 | 69.88 | 12.40 | 24.74 | 17.75 | 9.65 | 84.54 |
| 8. | 1993-94 | 11.80 | 31.78 | 27.64 | 13.71 | 84.91 | 11.50 | 30.65 | 26.92 | 24.32 | 93.39 |
| 7. | 1994-95 | 10.63 | 45.60 | 30.77 | 24.31 | 111.31 | 10.00 | 30.46 | 25.07 | 14.88 | 80.39 |
| 8. | 1995-96 | 10.44 | 87.54 | 40.53 | 35.49 | 154.00 | 11.00 | 45.78 | 37.85 | 40.53 | 134.98 |
| 9. | 1996-97 | 17.96 | 80.93 | 61.51 | 47.08 | 207.46 | 12.00 | 90.19 | 51.09 | 24.32 | 177.60 |

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Source : Kerala State Co-operative Agricultural and Rural Development Bank Limited.

Appendix-4.67

Classification of Societies, Membership and Resources as on March 1994/June 1994

| Sl.No | Type of Banks/Societies | No. of Societies | Membership (actual) | Total | Share Capital Govt. | All Reserves | Borrowings | Deposits | Working capital | Loans advanced | (Rs. in thousands) | |
|--------------|-------------------------------------------------------------|------------------|---------------------|---------|---------------------|--------------|------------|----------|-----------------|----------------|--------------------|-----|
| | | | | | | | | | | | (3) | (4) |
| I. | A. | Credit Societies | | | | | | | | | | |
| 1. | Kerala State Co-op. Bank | 1 | 15 | 127706 | 12000 | 210020 | 1773536 | 5025160 | 7098000 | 5218142 | | |
| 2. | Dist. Co-op. Banks | 14 | 7903 | 441300 | 144700 | 677400 | 2503300 | 10735800 | 13792900 | 11643700 | | |
| 3. | Kerala State Co-op. Agricultural and Rural Development Bank | 1 | 47 | 114567 | 12079 | 551491 | 4983114 | 42119 | 5172617 | 849090 | | |
| 4. | Primary Agricultural Devel. Bank | 44 | 726199 | 276815 | 29413 | 282244 | 4930993 | 40204 | 6497762 | 949417 | | |
| 5. | Primary Agricultural Credit Socs. | 1583 | 10385446 | 1347810 | 165191 | 1119350 | 4539304 | 18912273 | 32441278 | 20109606 | | |
| 6. | Scheduled Caste Societies | 626 | 354307 | 24636 | 15113 | 20928 | 31298 | 6737 | 198546 | 9298 | | |
| 7. | Scheduled Tribe Societies | 90 | 52659 | 6980 | 4327 | 5131 | 9647 | 1453 | 54642 | 1018 | | |
| 8. | Urban Banks - B.R. Act | 52 | 815489 | 118056 | -- | 235343 | 31717 | 3303007 | 5250391 | 3109727 | | |
| 9. | Urban Banks - Non-B.R. Act | 19 | 205000 | 20722 | 130 | 17982 | 5827 | 476101 | 692327 | 449990 | | |
| 10. | Employees Credit Soc. (B.R. Act) | 4 | 18000 | 20501 | -- | 13777 | 76 | 155636 | 252536 | 99344 | | |
| 11. | Employees Credit Societies (Non-B.R. Act) | 866 | 650000 | 357725 | 1499 | 134602 | 826899 | 1454479 | 4390301 | 2024419 | | |
| 12. | Non-Agrl. Credit Societies (Others) | 44 | 73170 | 22909 | 28 | 8248 | 10002 | 165131 | 383484 | 158387 | | |
| 13. | Housing Federation | 1 | 208 | 110960 | -- | 12075 | 1259494 | -- | 1583175 | 271715 | | |
| 14. | Primary Housing Societies | 342 | 187061 | 164150 | -- | 63716 | 1265072 | -- | 1982429 | 333637 | | |
| Credit Total | | 3687 | 13475504 | 3154837 | 384480 | 3352307 | 22150279 | 40318101 | 79790388 | 44225490 | | |

Financial year 1-4-93 to 31-3-94

Co-operative Year 1-7-93 to 30-6-94.

Contd... Appendix-4.76

(Rs. in thousands)

| Sl.No. | Type of Banks/Societies | No. of Societies | Membership (actual) | Total | Share Capital Govt. | All Reserves | Borrowings | Deposits | Working capital | Loans advanced |
|-----------------------------------|-------------------------------------------|------------------|---------------------|--------|---------------------|--------------|------------|----------|-----------------|----------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| I. B. Non-credit Societies | | | | | | | | | | |
| 15. | Kerala - Karshaka - Sahakarana Federation | 1 | 936 | 201000 | 188745 | 13822 | 163825 | -- | 419239 | -- |
| 18. | Kerala State SC/ST Federation | 1 | 519 | 8406 | 7944 | 3523 | 2775 | -- | 21463 | -- |
| 17. | Rubber Marketing Federation | 1 | 37 | 19134 | 15680 | 5341 | 248401 | -- | 610602 | -- |
| 18. | General Marketing Federation | 1 | 114 | 23216 | 21996 | 6713 | 626647 | -- | 769565 | -- |
| 19. | Primary Marketing Societies | 366 | 254569 | 101864 | 71779 | 90574 | 127551 | 49141 | 532460 | 5520 |
| 20. | Processing Societies | 1 | 689 | 1418 | 1096 | 38 | 2056 | -- | 4931 | -- |
| 21. | Poultry Societies | 85 | 9011 | 930 | 494 | 29 | 568 | -- | 1757 | 225 |
| 22. | Other Livestock - Societies | 3 | 527 | 38 | -- | 47 | 59 | -- | 160 | 2 |
| 23. | Collective Farming Societies | 11 | 1363 | 262 | 141 | 2255 | 14840 | -- | 71581 | -- |
| 24. | Joint Farming Societies | 63 | 9023 | 849 | 170 | 6370 | 130208 | -- | 185109 | 11003 |
| 25. | Irrigation Societies | 18 | 4840 | 226 | -- | 430 | 562 | -- | 1844 | -- |
| 28. | Other Industrial Societies | 1 | 186 | 1 | -- | -- | -- | -- | 9 | -- |
| 27. | Consumer Federation | 1 | 28 | 27288 | 20769 | 44140 | 43230 | 9215 | 104747 | -- |
| 28. | Whole-sale-con. stores | 14 | 45809 | 36204 | 32413 | 11881 | 95019 | 3293 | 104876 | -- |
| 29. | Primary Consumer Stores | 980 | 255855 | 23450 | 8680 | 19061 | 37046 | 19575 | 210132 | -- |
| 30. | College Stores | 142 | 1180074 | 6826 | 873 | 4160 | 767 | 182 | 48208 | -- |
| 31. | School Stores including Regional Stores | 3579 | 9234380 | 18549 | 882 | 18093 | 1695 | -- | 103140 | -- |
| 32. | Central Stores | 3 | 114 | 1489 | 1315 | 3679 | 28 | 186 | 11439 | -- |
| 33. | Labour Contract Societies | 285 | 31245 | 6832 | 857 | 8298 | 17500 | -- | 92180 | 1870 |
| 34. | Forest Labourers Societies | 7 | 1288 | 102 | 60 | 34 | 18 | 7 | 1389 | -- |
| 35. | Transport Societies | 95 | 9760 | 9831 | 3974 | 37839 | 37860 | -- | 167416 | -- |

Contd... Appendix-4.87

(Rs. in thousands)

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
|-----------|-------------------------------------|--------------|-----------------|----------------|---------------|----------------|-----------------|-----------------|-----------------|-----------------|
| I- | C-Other Non-Credit Societies | | | | | | | | | |
| | i) Agril. Societies | | | | | | | | | |
| | 36. Land Colonisation Societies | 2 | 404 | 13 | -- | 425 | -- | -- | 1160 | -- |
| | 37. Better Farming Societies | 28 | 9245 | 398 | 3 | 641 | 2316 | -- | 7978 | 1482 |
| | 38. Agril. Other Societies | 23 | 8642 | 1894 | 1196 | 2396 | 8022 | -- | 10607 | 67 |
| | ii) Non-Agril. Societies | | | | | | | | | |
| | 39. Women's Societies | 387 | 53182 | 7055 | 2361 | 1239 | 9487 | -- | 42605 | 5029 |
| | 40. Autrickshaw Societies | 49 | 9544 | 7429 | 2979 | 1850 | 23499 | -- | 99038 | 5457 |
| | 41. Hospital Societies | 137 | 59066 | 25540 | 8137 | 14283 | 38204 | -- | 121303 | -- |
| | 42. Literary Societies | 14 | 3326 | 2244 | 313 | 1354 | 1428 | -- | 80687 | -- |
| | 43. Printing Societies | 65 | 9804 | 2390 | 435 | 5742 | 5052 | -- | 22096 | -- |
| | 44. Taxi Drivers Societies | 16 | 2504 | 5882 | 1416 | 610 | 11844 | -- | 24434 | 1488 |
| | 45. Social Welfare Societies | 37 | 9159 | 738 | 420 | 1012 | 1820 | -- | 8852 | 700 |
| | 46. Washermen Societies | 8 | 499 | 53 | 46 | 16 | 224 | -- | 223 | 4 |
| | 47. Educational Societies | 78 | 68617 | 19791 | 16675 | 4419 | 3867 | -- | 39940 | 75 |
| | 48. Chethuzhilali Societies | 20 | 9251 | 2180 | -- | 9300 | 34974 | -- | 62412 | -- |
| | 49. Centeen Societies | 94 | 26414 | 1683 | 121 | 3072 | 412 | -- | 16234 | -- |
| | 50. Rickshew Pullers Societies | 1 | 231 | 251 | -- | -- | 1136 | -- | 1636 | 310 |
| | 51. Lime Shell Societies | 15 | 6441 | 541 | 61 | 3673 | 1015 | -- | 10634 | 61 |
| | 52. Lime Burners Societies | 1 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 53. Tailors Societies | 40 | 7840 | 1116 | 715 | 52 | 27 | -- | 1391 | 23 |
| | 54. Non Agril. - Others Societies | 304 | 54376 | 6696 | 1264 | 13814 | 8674 | -- | 76516 | 208 |
| | Non-Credit Societies Total | 6932 | 11358710 | 571807 | 413710 | 340005 | 1700654 | 81599 | 4055979 | 33292 |
| | Credit Societies Total | 3687 | 13475504 | 3154837 | 384480 | 3352307 | 22150279 | 40318101 | 79790388 | 44225490 |
| | State Total | 10619 | 24834214 | 3726644 | 798190 | 3692312 | 23850933 | 40399700 | 83846367 | 44258782 |

Source : Registrar of Co-operative Societies, Kerala.

National Co-operative Development Corporation - Release of Fund from 1993-94 to 1996-97

| Sl.No. (1) | Name of Scheme (2) | 1993-94 (3) | 1994-95 (4) | 1995-96 (5) | 1996-97 (6) |
|---------------|-----------------------------------------------------|----------------|----------------|----------------|----------------|
| 1. | Marketing Co-operatives | | | | |
| | a) Margin Money to Federation | 125.00 | 218.00 | 197.00 | 157.00 |
| | b) Share Capital to PAMS | 12.00 | 39.50 | 26.50 | 34.50 |
| 2. | Agro Custom Hiring-cum-Service Centre for RAIDCO | -- | -- | 6.80 | 2.00 |
| 3. | Processing Units | | | | |
| | a) Rubber | 63.16 | 50.09 | 50.87 | 40.25 |
| | b) Spices Powdering Unit | -- | 10.80 | 67.219 | 8.99 |
| 4. | Storage | 560.84 | 810.802 | 667.219 | 545.41 |
| 5. | Fisheries - Marine | 560.84 | 837.082 | 697.712 | 508.19 |
| 6. | Coir Co-operatives | 222.858 | 547.692 | 542.558 | 426.25 |
| 7. | Handloom Co-operatives | -- | 5.934 | 115.887 | 707.39 |
| 8. | a) Spinning Mills | -- | -- | -- | 86.50 |
| | b) Powerloom | -- | -- | -- | 282.61 |
| 9. | SC/ST Co-operatives | -- | 10.93 | 25.75 | -- |
| 10. | Sugar Factory | -- | 26.00 | 78.00 | -- |
| 11. | Computerisation | -- | 6.00 | 6.698 | -- |
| 12. | Tech/Promo Cell | -- | -- | 3.077 | -- |
| 13. | Project Reports Study etc. Others | -- | 0.985 | 4.900 | 0.35 |
| 14. | EEC - Coconut Development Project (Kerafed Project) | 737.814 | 1714.254 | -- | -- |
| 15. | INTE -Co-operative Development Project (I.C.D.P) | 593.683 | 336.523 | 564.416 | 694.59 |
| 16. | Consumer Schemes | -- | -- | 48.00 | 48.10 |
| 17. | Student Stores | 2.25 | 5.85 | 0.15 | 0.40 |
| | Total | 2367.585 | 3809.636 | 2433.116 | 3022.53 |

Source : NCDC.

NCDC - Activity-wise Cumulative Sanction/Release of Fund of Kerala as on 31-3-1997

| Sl.No. (1) | Scheme (2) | (Rs. In lakhs) | | | |
|---------------|-------------------------------|--------------------------------------------------|-------------------------------|--------------------------------------------------|------------------------------|
| | | Total Sanction from 1962-63 to 1996-97 (3) | % to Total sanction (4) | Total Release from 19962-63 to 1996-97 (5) | % to total release (8) |
| 1. | MKTG. & INPUTS | 2570.766 | 8.114 | 2551.016 | 10.722 |
| 2. | Agro Processing | | | | |
| | a) Sugar | 115.440 | 0.365 | 115.440 | 0.485 |
| | b) Spinning Mill | 525.900 | 1.661 | 525.900 | 2.210 |
| | c) Oil Procg. | 8882.700 | 28.061 | 6642.174 | 27.918 |
| | d) Powerlooms | 797.532 | 2.519 | 262.610 | 1.104 |
| | e) Rubber/others | 1155.630 | 3.651 | 811.392 | 3.410 |
| 3. | Storage | 1259.600 | 3.979 | 1111.564 | 4.672 |
| 4. | Rural consumer/Student stores | 548.626 | 1.733 | 466.341 | 1.960 |
| 5. | ICDP | 5125.425 | 16.191 | 3216.718 | 13.520 |
| 6. | Weakers Section | | | | |
| | a) Fisheries | 5983.598 | 18.90 | 4456.700 | 18.732 |
| | b) Handlooms | 1061.210 | 3.352 | 910.062 | 3.825 |
| | c) Coir/SC-ST/Poultry | 3425.160 | 10.820 | 2498.150 | 10.500 |
| 7. | Promotional/Development Proj. | 230.515 | 0.728 | 223.765 | 0.941 |
| | Total | 31682.102 | 100.078 | 23791.832 | 100.00 |

Source : National Co-operative Development Corporation.

Plan - wise Investment and Physical Achievement Under Irrigation

| Sl. No. | Plan Period | Financial achievement(Rs. lakhs) | Physical Achievement (Hectare) | | | |
|---------|-------------------------|----------------------------------|--------------------------------|------------------|------------|------------------|
| | | | Net | Major Irrigation | Gross | Minor Irrigation |
| 1. | I Plan (1951-56) | 511.00 | | | | |
| 2. | II Plan (1956-61) | 1308.00 | 19070 (cum) | 23918 (cum) | | |
| 3. | III Plan (1961-66) | 2116.00 | 6068 | 10732 | | |
| 4. | Annual Plans (1968-69) | 1902.00 | 37551 | 78110 | | |
| 5. | IV Plan (1969-74) | 4722.00 | 42246 | 90368 | | |
| 6. | V Plan (1974-78) | 9609.00 | 21489 | 57544 | 74404(cum) | 79723 (cum) |
| 7. | Annual Plans (1978-80) | 9025.00 | 11744 | 27848 | 3780 | 4753 |
| 8. | VI Plan (1980-85) | 32145.00 | 30844 | 70206 | 19453 | 23683 |
| 9. | VII Plan (1985-90) | 37925.00 | --- | 25035 | 37597 | 41895 |
| 10. | Annual Plan (90-91) | 9358.00 | 5257 | 8808 | 8552 | 10125 |
| 11. | Annual Plan (91-92) | 10680.00 | 4831 | 9503 | 7307 | 8670 |
| 12. | VIII Plan (Provisional) | 89515.00 | | 33628 | 52869 | 72648 |
| Total | | 208814.00 | | 435998 | 203962 | 241495 |

Appendix - 4.71

Physical & Financial Achievement under M.I Programmes during the Eighth Plan Period

| Sl.No. | Item | (Area in Hectares) (Amount in Rs. lakhs) | | | | | | | | | | | | | | | | | |
|--------|---------------------------|------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|------|-------|------|-------|------|-------|-----|-------|
| | | Financial Achievement | | | | | | | | | Physical Achievement | | | | | | | | |
| | | 82-93 | 93-94 | 94-95 | 95-96 | 96-97 | 92-93 | 93-94 | 94-95 | 95-96 | 96-97 | Net | Gross | Net | Gross | Net | Gross | Net | Gross |
| 1. | M.I.Class - I | 253 | 766 | 932 | 714 | 1577 | 1266 | 1899 | 3828 | 5742 | 4663 | 8995 | 3570 | 5355 | 1589 | 2880 | | | |
| 2. | M.I.Class- II | 209 | 199 | 329 | 556 | 666 | 1044 | 1044 | 995 | 995 | 1645 | 1645 | 2780 | 2780 | 1489 | 1489 | | | |
| 3. | Lift Irigation | 292 | 309 | 486 | 369 | 773 | 1459 | 2189 | 1545 | 2310 | 2430 | 3645 | 1236 | 1854 | 882 | 1457 | | | |
| 4. | M.I works in IPD Yelah | 32 | 19 | 31 | - | - | 160 | 160 | 100 | 100 | 153 | 153 | - | - | - | - | | | |
| 5. | Repairs to M.I Structures | 238 | 292 | 328 | 547 | 554 | 2379 | 2379 | 2922 | 2922 | 3281 | 3281 | - | - | - | - | | | |
| 6. | Community Irrigation | 9 | 6 | 7 | - | - | 72 | 72 | 28 | 28 | 36 | 36 | - | - | - | - | | | |
| 7. | S.C.P | 131 | 154 | 131 | 149 | 129 | 640 | 640 | 513 | 513 | 436 | 436 | 495 | 495 | 282 | 282 | | | |
| 8. | T.S.P | 28 | 37 | 51 | 75 | 75 | 287 | 287 | 123 | 123 | 171 | 171 | 249 | 249 | 214 | 214 | | | |
| 9. | Jaladhara Padhathy | - | 231 | 252 | 528 | 426 | - | - | 1153 | 1153 | 1258 | 1258 | 2640 | 2640 | 462 | 462 | | | |

Source : Dept. of Irrigation

Appendix - 4.72

Eighth Five Year Plan Physical Achievement under Ground Water Development Schemes.

| Sl. No. | Items | Unit | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | |
|---------|------------------------------------------------------------|-----------------|---------|-----------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------|-------------------------|----------|
| 1. | Detailed hydrological Survey. | Km ² | 76 | 59 | 173 | 75 | 166 | |
| 2. | Siting and Providing Technical assistance for Open wells. | No. | 7400 | 4376 | 5292 | 2635 | 429 | |
| 3. | Siting & Construction of Different types of Drilled wells. | No. | 538 | 271 | 410 | 647 | 409 | |
| 4. | Creation of Additional Irrigation Facilities. | ha. | 2500 | 3116 | 1435 | 2348 | 1161 | |
| 5. | Janakeeya Jala Sechana Padhathy. | No. | - | 2 borewells 2 filterpt wells & 48 Irrigation units. | 28 Irrigation units creating irrigation potential of 212 hectares. | 38 Irrigation units | 17 Irrigation units. | 2 103 |
| 6. | Failed Well Compensation | (Persons No.) | 22 | 22 | 34 | 14 | 3 | |
| 7. | Utilising Ground Water for Drinking Purposes. | No. | - | 45 wells | 281 Wells | 470 Borewells & 4 Micro water schemes | 73 wells | |
| 8. | Special Component plan | No. | - | - | 65 groundwater structures to benefit 3250 SC families. | 56 wells | 98 wells | |
| 9. | Tribal Sub Plan | No. | - | - | 17 wells to benefit 900 families. | 20 wells | 19 wells | |

Source : Ground Water Department

Appendix - 4.73

Details of Externally Aided Projects Implemented During the Eighth Plan Period

| Sl. No. | Name of Project | Project Period | Date of Commencement | Date of Completion | Project Cost | Share by External Agency | Share by GOK | Exp: Incurred upto 96-97 | Physical Achievement |
|---------|-------------------------------------------------------|----------------|----------------------|-----------------------------------------|--------------|--------------------------|--------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | World Bank Assisted National Water Management Project | 3 years | 1991-92 | 1993-94 (Original) 1994-95 (Revised) | 1907 | 1335 | 572 | 2398 | |
| 2. | National Hydrology Project | 6 years | 95-96 | 2000-2001 | 3593 | 3219 | 374 | 21.08 | Under Surface, water, sites were identified for the following civil works. Observation sites - 18 Meteorological Sites - 3 Site Equipments Store - 1 Water quality lab - 1 Under Ground water, established 170 piezo meters |
| 3. | EEC Assisted Kerala Minor Irrigation Project | 5 years | 1993-94 | 1998-99 | 5204 | 4130 | 1074 | 101 | Tank Schemes - 14 Lift Irrn - 28 |
| 4. | Kerale Community Irrigation Project | 5 years | 1993-94 | 1998-99 | 2169 | 1855 | 314 | 248 | 19 Borewells constructed |

Appendix - 4.74

Physical Achievement under Command Area Programme

| No. | Item | Unit | Achievement During | | | | | Cumulative Achievement till the end of 3/97. |
|-----|-----------------------------------------------------------|------|--------------------|---------|---------|---------|---------|----------------------------------------------|
| | | | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | |
| 1. | Construction of field Channels | ha. | 9252 | 25562 | 16907 | 17422 | 14402 | 147625 |
| 2. | Construction field drain | ha. | 1633 | - | - | - | 4210 | 12073 |
| 3. | Warabandhi Works | ha. | 8140 | 13453 | 11117 | 3983 | 3721 | 123316 |
| 4. | Training Programme and Seminars for farmers | No. | - | 303 | 291 | 309 | 384 | 2882 |
| 5. | Adaptive trails | ha. | 8788 | 1911 | 2049 | 1814 | Nil | 20953 |
| 6. | Large Scale Demonstration | ha. | 7689 | 7738 | 7620 | 8709 | 8795 | 48725 |
| 7. | Subsidy to small & marginal farmers | No. | - | 724 | 452 | 313 | 159 | 2094 |
| 8. | Beneficiary farmers Associations organised and registered | No. | 259 | 479 | 299 | 145 | 106 | 3883 |
| 9. | Detailed Soil Survey Conducted | ha. | 1700 | 1700 | 700 | - | - | 35174 |
| 10. | Land levelling and Shapping | ha. | - | 193 | 308 | 279 | 285 | 1132 |
| 11. | Bench Mark and Evaluation - Survey Conducted | ha. | - | 2010 | 2641 | 2447 | 1557 | 24239 |

Source : CADA, Thrissur.

Appendix - 5.1
Outlay and Expenditure during various Plan Periods on Energy Development

| Plan Period | Outlay | % of Total | Expenditure | Expenditure as parcentage Outlay |
|---------------------------------|--------|------------|-------------|-------------------------------------|
| I Plan 1951-56 | 1185 | 39.50 | 1060.00 | 89.50 |
| II Plan 1956-61 | 2345 | 26.90 | 2192.00 | 93.50 |
| III Plan 1961-66 | 4356 | 25.60 | 6084.00 | 139.70 |
| Annual Plans 1966-67 to 1968-69 | 4691 | 32.90 | 4195.00 | 89.40 |
| IV Plan 1969-74 | 7625 | 10.50 | 10740.00 | 140.90 |
| V Plan 1974-75 to 1977-78 | 12990 | 22.80 | 11057.00 | 85.10 |
| Annual Plans 1978-80 | 8378 | 21.30 | 7060.00 | 84.30 |
| VI Plan 1980-85 | 28007 | 18.80 | 32180.00 | 114.90 |
| VII Plan 1985-90 | 44131 | 19.90 | 41912.00 | 95.00 |
| Annual Plan 1990-91 | 13542 | 21.30 | 12493.00 | 92.30 |
| Annual Plan 1991-92 | 15620 | 19.40 | 14642.00 | 93.70 |
| Eighth Plan 1992-97 | 130000 | 23.80 | 179643.00 | 138.19 |
| Ninth Plan 1997-2002 | 267100 | -- | -- | -- |

Source : State Planning Board

Appendix - 5.2
Growth of Kerala Power System - 1992, 1996 and 1997

| Sl.No. | Particulars | Position as on | | 31.3.97(Provisional) |
|--------|-----------------------------------------------------------|----------------|-----------|----------------------|
| | | 31.3.1992 | 31.3.96 | |
| 1. | Installed Capacity - MW | 1477 | 1505.5* | 1508.5 |
| 2. | Maximum Demand - MW | | | |
| | (a) System | 1264.60 | 1372.60 | 1235 |
| | (b) Internal | 1308.80 | 1651.40 | 1652 |
| 3. | Generation Per Annum - M.U. | 5326.00 | 6662.00 | 5502.86 |
| 4. | Import Per Annum - M.U. | 1855.82 | 2638.11 | 3298.38 |
| 5. | Export per Annum - M.U. | 2.17 | 4.00 | 1.97 |
| 8. | Energy Sales Per Annum - M.U. | 5596.00 | 7414.62 | 7020.77 |
| 7. | Energy losses of percentage of energy available for sales | 21.17 | 20.05 | 19.96 |
| 8. | Per capita Consumption - Kwh | 192.00 | 240.07 | 224.18 |
| 9. | 220 K.V lines - CT Km | 1064.22 | 1175.99 | 1175.99 |
| 10. | 110 K.V. lines - CT Km | 2329.00 | 2425.00 | 2429.28 |
| 11. | 66 K.V. lines - CT Km | 2531.00 | 2669.50 | 2669.50 |
| 12. | 11 K.V. lines - CT Km | 21551.00 | 25807.00 | 26444.14 |
| 13. | L.T. Lines - CT Km | 108420.00 | 130861.00 | 132864.06 |
| 14. | Step up Transformer Capacity - MVA | 1276.00 | 1744.00 | 1899.47 |
| 15. | No. of EHT Sub Stations | 143.00 | 157.00 | 157.00 |
| 16. | Step down Transformer Capacity- MVA | 4994.20 | 6489.90 | 7384.60 |
| 17. | Distribution Transformer | | | |
| | (a) Numbers | 18843.00 | 24711.00 | 25940.00 |
| | (b) Capacity - MVA | 2293.52 | 3059.38 | 3192.57 |
| 18. | No. of Villages Electrified | 1384.00 | 1384 | 1384 |
| 19. | No. of Consumers (In lakhs) | 36.98 | 46.88 | 49.23 |
| 20. | Connected Load - M.W. | 5526.00 | 5776.09 | 6089.41 |
| 21. | No. of Street lights | 544744.00 | 602582 | 612334 |
| 22. | No. of Irrigation Pumps | 238206.00 | 300113 | 310158 |
| 23. | Total Revenue Per Annum (Rs.lakhs) | 34326.99 | 71130.04 | 95590.93 |

* Inclusive of Maniyar Project

12 MW Private + 2 MW Wind Energy

Source: Kerala State Electricity Board

Appendix - 5.3
Power Projects and Power Generation as on 31.3.1997

| Sl.No. | Name of Projects and Districts | Installed Capacity (MW) | Firm Power (M.W) | Units generated during '96-97(M.U) Gross Energy |
|--------|--------------------------------|-------------------------|------------------|-------------------------------------------------|
| 1. | Pallivasal - Idukki | 37.50 | 32.5 | 220.69 |
| 2. | Sangulam - Idukki | 48.00 | 20.8 | 164.70 |
| 3. | Naniamangalam - Idukki | 45.00 | 27.00 | 278.80 |
| 4. | Panniyar - Idukki | 30.00 | 17.00 | 153.53 |
| 5. | Peringalkuthu - Thrissur | 32.00 | 19.96 | 190.46 |
| 6. | Sabarigiri - Pathanamthitta | 300.00 | 138.5 | 1134.76 |
| 7. | Sholayar - Thrissur | 54.00 | 26.6 | 220.30 |
| 8. | Kuttiady - Wayanad | 75.00 | 28.0 | 269.38 |
| 9. | Idukki - Idukki | 780.00 | 230.0 | 2449.30 |
| 10. | Idamalayar - Ernakulam | 75.00 | 36.5 | 335.49 |
| 11. | Kallada - Mini-Kollam | 15.00 | 6.05 | 51.26 |
| 12. | Kanjikod Wind Farm | 2.00 | - | 2.56 |
| 13. | Pappara | 3.00 | - | 2.14 |
| | Sub Total | 1496.50 | 582.91 | 5473.37 |
| | Maniyar (Private) | 12.00 | 4.1 | 29.19 |
| | Grand Total | 1508.50 | 587.01 | 5502.56 |

Source: Kerala State Electricity Board

Appendix - 5.4

Profile of on-going Hydro-electric Projects in the State

| Sl. No. | Name of Scheme | District | Energy Potential (MU) | Project sanctioned on | Major Works commenced on | Original Estimated cost (Rs in lakhs) | Latest Estimated cost (Rs in lakhs) | Expenditure upto 3/97 (Rs in lakhs) | % increase of revised estimate over the original estimate | Expected Year of commissioning |
|----------------------|----------------------------|----------|-----------------------|-----------------------|--------------------------|---------------------------------------|-------------------------------------|-------------------------------------|-----------------------------------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Azutha Diversion | IDK | 57.00 | 6/85 | 4/89 | 290 | 1399.00 | 753.35 | 382.40 | 31.3.99 |
| 2. | Kakkad | PTA | 262.00 | 9/76 | 4/78 | 1860 | 14599.00 | 10819.46 | 684.90 | 30.6.98 |
| 3. | Lower Periyar | IDK | 493.00 | 2/83 | 4/83 | 8843 | 29899.00 | 27426.69 | 238.10 | Partially Commissioned |
| 4. | Malampuzha | PGT | 5.60 | 12/85 | 4/87 | 295 | 611.00 | 536.02 | 107.12 | 31.3.98 |
| 5. | Madupetty | IDK | 6.40 | 12/85 | 11/86 | 292 | 546.00 | 441.56 | 86.99 | Commissioned |
| 8. | Malankara | IDK | 36.00 | 8/86 | 1/87 | 780 | 4336.00 | 28.44 | 455.90 | 1998-99 |
| 7. | Peppara | TVM | 11.50 | 8/86 | 1/87 | 392 | 850.00 | 486.95 | 116.84 | Commissioned |
| 8. | Pennalkuthu L.B. Extension | TCR | 38.00 | 5/89 | 9/89 | 902 | 3689.00 | 2417.20 | 308.98 | 30.6.98 |
| 9. | Kuttiady Tailrace | KKD | 15.00 | 5/89 | 9/89 | 397 | 1448.00 | 715.18 | 12.85 | 31.7.99 |
| 10. | Vazhikkadavu Diversion | IDK | 24.00 | 5/89 | 9/89 | 186 | 1595.00 | 379.78 | 757.53 | 1997-98 |
| 11. | Kuttiar Diversion | IDK | 37.00 | 10/89 | 5/91 | 214 | 814.00 | 334.09 | 380.35 | 1997-98 |
| 12. | Vadakkepuzha Diversion | IDK | 12.00 | 10/89 | 5/91 | 131 | 786.00 | 25.80 | 500.00 | 1998-99 |
| 13. | Kuttiady Extension | KKD | 79.00 | 1/92 | 2/94 | 1073 | 11371.00 | 2894.95 | 957.70 | 30.6.99 |
| 14. | Pooyankutty | EKM | 645.00 | 8/86 | -- | 25000 | 59000.00 | 882.57 | 136.00 | Eight years after Commencement |
| Diesel Plants | | | | | | | | | | |
| 15. | Brahmapuram DGPP | EKM | 535.00 | 2/93 | 10/93 | -- | 34500.00 | 30844.56 | -- | Partially Commissioned |
| 16. | Kozhikode | KKD | 874.00 | 1998 | 1996 | -- | 35500.00 | 122.93 | -- | -- |

Source: State Planning Board

Appendix - 5.5

Pattern of Power Consumption and Revenue Collected During 1996-97

| Sl No. | Category | No. of Consumers as on 31.3.97 | Connected load as on 31.3.97 (M.W) | Energy sold (M.U) | Consumption as % to Total | Revenue collected (Rs. Lakhs) | Revenue as percentage to Total |
|--------|-------------------------------------------|--------------------------------|------------------------------------|-------------------|---------------------------|-------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Domestic Lights, heat and small power | 3735260 | 2748.57 | 3405.0 | 48.50 | 20350.24 | 30.30 |
| 2. | Commercial lights fans, heat and power | 787662 | 563.27 | 650.0 | 9.26 | 13326.41 | 19.85 |
| 3. | Industrial (Low and Medium Voltage) | 86310 | 1201.25 | 494.0 | 7.04 | 5771.50 | 8.59 |
| 4. | Industrial (High and Extra high Volatage) | 1525 | 887.04 | 1735.0 | 24.71 | 22487.52 | 33.51 |
| 5. | Irrigation | 309313 | 581.82 | 329.0 | 4.69 | 888.08 | 1.33 |
| 6. | Public lighting | 1398 | 35.48 | 110.0 | 1.57 | 1221.25 | 1.83 |
| 7. | Water Works and Sewerage | 1565 | 49.20 | 161.0 | 2.29 | 2077.63 | 3.09 |
| 8. | Bulk Supply to licences | 8 | 22.78 | 137.0 | 1.95 | 1003.26 | 1.49 |
| 9. | Micellaneous | -- | -- | -- | -- | 4.40 | 0.01 |
| | Total | 4923041 | 6089.41 | 7021.0 | 100.00 | 67130.31 | 100.00 |

Source: Kerala State Electricity Board

Appendix - 5.6

Average Realisation from Sale of Power

| Sl.No. | Consumer Category | Average Realisation (in paise par unit) (including Electricity duty) | |
|--------|---------------------------|--------------------------------------------------------------------------|---------|
| | | 1995-96 | 1996-97 |
| 1. | Domestic | 66.93 | 65.33 |
| 2. | Commercial | 210.95 | 223.30 |
| 3. | Public Lighting | 111.86 | 111.15 |
| 4. | Irrigation and Dewatering | 25.28 | 28.60 |
| 5. | Public Works | 139.54 | 138.31 |
| 6. | Industrial | | |
| | (a) LT | 124.58 | 125.25 |
| | (b) HT and EHT | 110.70 | 138.42 |
| 7. | Bulk Supply | 73.35 | 74.17 |
| 8. | Outside Supplias | Nil | Nil |
| | Total | 100.75 | 103.08 |

Source: Kerala State Electricity Board

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Appendix - 5.7

Average Tariff Rate

| Sl.No. | Category of Consumer | Average Tariff (Ps per Unit) | |
|--------|-------------------------------------|---------------------------------|---------|
| | | 1995-96 | 1996-97 |
| 1. | Domestic | 83.85 | 83.85 |
| 2. | Commearcial | 360.00 | 380.00 |
| 3. | Industrial (Low and Madium Voltage) | 155.00 | 155.00 |
| 4. | Industrial | | |
| | (a) HT | 178.00 | 176.00 |
| | (b) EHT | 150.00 | 150.00 |
| 5. | Irrigation | 55.00 | 55.00 |
| 6. | Public Lighting | 20.00 | 20.00 |
| 7. | Water Works and Sewarege | 155.00 | 155.00 |
| 8. | Bulk Supply to Licancees | 103.00 | 103.00 |
| 9. | Miscellanaous | - | - |

Source: Kerala State Electricity Board

Appendix - 6.1

Index of Industrial Production - Base (1980-81 = 100)

| Sl. No. | Item | Weight | Index for | | | | |
|---------|----------------------------------------------------------------------------------------------|--------|-----------|--------|---|---------|---|
| | | | 1994-95 | 4 | 5 | 1995-96 | 5 |
| 1 | 2 | 3 | 4 | 5 | | | |
| | General Index | 100.00 | 255.08 | 255.49 | | | |
| 1. | Manufacture of Food Products | 8.82 | 128.84 | 126.84 | | | |
| 2. | Manufacture of beverages, tobacco and related productions | 1.46 | 54.55 | 94.56 | | | |
| 3. | Manufacture of Cotton Textiles | 8.02 | 193.61 | 188.78 | | | |
| 4. | Manufacture of wool, silk and man made fibre textiles | 1.26 | 119.16 | 115.40 | | | |
| 5. | Manufacture of textile products | 3.26 | 12.78 | 14.83 | | | |
| 6. | Manufacture of wood and wood products | 1.35 | 83.08 | 60.41 | | | |
| 7. | Manufacture of Paper and paper products | 3.16 | 1397.18 | 808.12 | | | |
| 8. | Manufacture of basic chemicals and chemical products (Except petroleum and coal) | 19.78 | 194.52 | 213.54 | | | |
| 9. | Manufacture of Rubber, plastic, petroleum and coal products and processing of unclear fuels. | 10.06 | 143.74 | 205.04 | | | |
| 10. | Manufacture of non-metallic mineral products | 3.42 | 125.69 | 122.85 | | | |
| 11. | Basic metal and alloys Industries | 3.43 | 103.21 | 119.34 | | | |
| 12. | Manufacture of metal products and parts except machinery and equipment | 0.50 | 712.71 | 808.07 | | | |
| 13. | Manufacture of Machinery and equipments other than transport equipment | 9.46 | 868.49 | 887.42 | | | |
| 14. | Manufacture of transport equipment and parts | 2.67 | 17.32 | 58.74 | | | |
| 15. | Other manufacturing Industries | 1.42 | 181.58 | 672.47 | | | |
| 18. | Electricity generation, transmission and distribution | 21.93 | 139.84 | 141.70 | | | |

Source : Directorate of Economics and Statistics - Thiruvananthapuram

Appendix - 6.2
Growth of Working Factories and Employment in Kerala - 1988 to 1996

| Year | No. of Factories | | | Employment | | |
|-----------|------------------|--------|-------|------------|--------|--------|
| | Private | Public | Total | Private | Public | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1988 | 11733 | 295 | 12028 | 214723 | 65965 | 280688 |
| 1989 | 11841 | 265 | 12106 | 281066 | 64739 | 345805 |
| 1990 | 12035 | 413 | 12448 | 239562 | 115988 | 355550 |
| 1991 | 12800 | 455 | 13255 | 243211 | 115527 | 368738 |
| 1992 | 14113 | 495 | 14608 | 248198 | 127538 | 375738 |
| 1993 | 14648 | 486 | 15132 | 277266 | 111492 | 388758 |
| 1994 | 14824 | 481 | 15305 | 281669 | 108591 | 390280 |
| 1995 (P)* | 15310 | 489 | 15799 | 292032 | 109020 | 401052 |
| 1996 (P)* | 15884 | 522 | 16406 | 303480 | 110924 | 414404 |

(P)* : Provisional.

Source : Directorate of Economics & Statistics., Thiruvananthapuram.

Appendix - 6.3

District - wise Distribution of Registered working Factories in Kerala from 1988 to 1996

| Sl.No. | District | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995(P) | 1998(P) |
|--------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Thiruvananthapuram | 564 | 565 | 655 | 606 | 712 | 864 | 855 | 860 | 881 |
| 2. | Kollam | 1136 | 1141 | 1179 | 1188 | 1415 | 1440 | 1425 | 1486 | 1532 |
| 3. | Pathanamthitta | 322 | 339 | 292 | 586 | 329 | 366 | 442 | 455 | 459 |
| 4. | Alappuzha | 740 | 723 | 750 | 802 | 901 | 921 | 1098 | 1125 | 1160 |
| 5. | Kottayam | 927 | 928 | 963 | 799 | 1098 | 1127 | 1126 | 1168 | 1181 |
| 6. | Idukki | 280 | 288 | 278 | 289 | 292 | 302 | 251 | 250 | 263 |
| 7. | Ernakulam | 1808 | 1816 | 1931 | 1933 | 2274 | 2299 | 2294 | 2379 | 2504 |
| 8. | Thrissur | 1559 | 1580 | 1692 | 1591 | 1939 | 1986 | 1987 | 2063 | 2109 |
| 9. | Palakkad | 1317 | 1313 | 1220 | 1330 | 1574 | 1638 | 1692 | 1758 | 1892 |
| 10. | Malappuram | 673 | 674 | 672 | 650 | 816 | 856 | 857 | 871 | 899 |
| 11. | Wayanad | 129 | 134 | 122 | 125 | 129 | 126 | 128 | 131 | 130 |
| 12. | Kozhikode | 1359 | 1359 | 1386 | 1981 | 1565 | 1635 | 1703 | 1727 | 1751 |
| 13. | Kannur | 1063 | 1078 | 1137 | 1182 | 1359 | 1369 | 1296 | 1351 | 1457 |
| 14. | Kasargod | 151 | 168 | 171 | 193 | 205 | 203 | 151 | 175 | 188 |
| | Total | 12028 | 12106 | 12448 | 13255 | 14608 | 15132 | 15305 | 15799 | 16406 |

(P) : Provisional

Source :- Directorate of Economics & Statistics, Thiruvananthapuram.

District - wise No of Registered Working Factories and Employment in Kerala from 1992 to 1996 (31.12.1996)

| Sl.No. | District | No. of Factories | | | | | | | | | | | Employment | | | | | | | | | | |
|--------|--------------------|------------------|-------|-------|----------|----------|--------|--------|--------|----------|----------|------|------------|------|----------|----------|--|--|--|--|--|--|--|
| | | 1992 | 1993 | 1994 | 1995 (P) | 1996 (P) | 1992 | 1993 | 1994 | 1995 (P) | 1996 (P) | 1992 | 1993 | 1994 | 1995 (P) | 1996 (P) | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | |
| 1. | Thiruvananthapuram | 712 | 864 | 855 | 860 | 881 | 27021 | 27986 | 31378 | 31509 | 31746 | | | | | | | | | | | | |
| 2. | Kollam | 1415 | 1440 | 1425 | 1486 | 1132 | 140937 | 133512 | 135433 | 136767 | 137618 | | | | | | | | | | | | |
| 3. | Pathanamthitta | 329 | 366 | 442 | 455 | 459 | 4797 | 9699 | 6418 | 6653 | 6780 | | | | | | | | | | | | |
| 4. | Alappuzha | 901 | 921 | 1098 | 1125 | 1160 | 17955 | 21417 | 20048 | 23551 | 24904 | | | | | | | | | | | | |
| 5. | Kottayam | 1098 | 1127 | 1126 | 1168 | 1181 | 13976 | 15650 | 17683 | 18355 | 18901 | | | | | | | | | | | | |
| 8. | Idukki | 292 | 302 | 251 | 250 | 263 | 7452 | 7508 | 7361 | 7346 | 7445 | | | | | | | | | | | | |
| 7. | Emakulam | 2274 | 2299 | 2294 | 2379 | 2504 | 56500 | 54020 | 55429 | 57047 | 80429 | | | | | | | | | | | | |
| 8. | Thrissur | 1939 | 1896 | 1987 | 2063 | 2109 | 31485 | 32740 | 32951 | 34198 | 35228 | | | | | | | | | | | | |
| 9. | Palakkad | 1574 | 1638 | 1692 | 1758 | 1892 | 17666 | 23678 | 23097 | 23950 | 27175 | | | | | | | | | | | | |
| 10. | Malappuram | 818 | 858 | 857 | 871 | 899 | 8855 | 9407 | 11009 | 11133 | 11673 | | | | | | | | | | | | |
| 11. | Kozhikode | 1565 | 1835 | 1703 | 1727 | 1751 | 26278 | 27961 | 26007 | 26306 | 28503 | | | | | | | | | | | | |
| 12. | Wayanad | 129 | 126 | 128 | 131 | 130 | 1935 | 1968 | 1738 | 1775 | 1719 | | | | | | | | | | | | |
| 13. | Kannur | 1359 | 1369 | 1298 | 1351 | 1457 | 18884 | 20943 | 19917 | 20545 | 22238 | | | | | | | | | | | | |
| 14. | Kasargod | 205 | 203 | 151 | 175 | 188 | 1995 | 2271 | 1791 | 1917 | 2049 | | | | | | | | | | | | |
| | Total | 14608 | 15132 | 15305 | 15799 | 16406 | 375738 | 388758 | 390260 | 401052 | 414404 | | | | | | | | | | | | |

(P) : Provisional

Source :- Directorate of Economics & Statistics, Thiruvananthapuram

Industrial Disputes arose, handled, settled etc in Kerala 1993-94 to 1996-97

| Sl.No | Particulars | 1993-94 | 1994-95 | 1995-96 | 1996-97 |
|-------|-------------------------------------------------------|---------|---------|---------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | No. of disputes pending at the beginning of the Year. | 5922 | 5324 | 4861 | 3303 |
| 2. | No. of disputes that arose during the year | 6578 | 6155 | 5874 | 5274 |
| 3. | No. of disputes handled during the year (1+2) | 12500 | 11477 | 10740 | 8577 |
| 4. | No. of disputes settled during the year | | | | |
| | (a) By voluntary Negotiation between parties | 2229 | 2725 | 2381 | 1340 |
| | (b) By conciliation | 2106 | 1611 | 2017 | 1829 |
| | (c) By withdrawal | 2162 | 1787 | 2538 | 2150 |
| | (d) Referred for Arbitration | - | - | - | 6 |
| | (e) Referred for Adjudication | 679 | 493 | 501 | 447 |
| | (f) Total number of disputes settled (a to e) | 7176 | 6616 | 7437 | 5766 |
| 5. | No. of disputes pending at the end of the year (3-4) | 5324 | 4861 | 3303 | 2811 |
| 6. | No. of disputes led to | | | | |
| | (a) Strike (including pending previously) | 47 | 50 | 23 | 26 |
| | (b) Lockout (including pending previously) | 31 | 32 | 36 | 27 |
| | (c) Total (a+b) | 78 | 82 | 59 | 53 |
| 7. | No. of workers affected due to | | | | |
| | (a) Strike | 51209 | 41230 | 21224 | 20063 |
| | (b) Lock out | 11885 | 17068 | 14861 | 14313 |
| | (c) Total (a+b) | 63094 | 58298 | 36085 | 34376 |
| 8. | Man days lost | | | | |
| | (a) Strike | 518396 | 1265380 | 561283 | 185822 |
| | (b) Lockout | 2105226 | 1836990 | 1807195 | 1247530 |
| | (c) Total (a+b) | 2623622 | 3102370 | 2368478 | 1433352 |

Source: Directorate of Economics & Statistics, Thiruvananthapuram

Appendix - 6.6

Central Sector Investment in Kerala

(Rs in Crores)

| Year as on 31st March | Investment Gross Block | | Kerala | Percentage of column (3) to column (2) |
|--------------------------|------------------------|------|--------|-------------------------------------------|
| | All India | | | |
| 1 | 2 | 3 | 4 | |
| 1970 | 3795 | 116 | 3.06 | |
| 1975 | 6242 | 202 | 3.24 | |
| 1979 | 15668 | 383 | 2.44 | |
| 1980 | 18161 | 423 | 2.33 | |
| 1981 | 21192 | 482 | 2.27 | |
| 1982 | 25504 | 536 | 2.10 | |
| 1983 | 31969 | 618 | 1.93 | |
| 1985 | 47323 | 831 | 1.76 | |
| 1990 | 113430 | 1701 | 1.50 | |
| 1991 | 130657 | 1853 | 1.42 | |
| 1992 | 153893 | 2000 | 1.30 | |
| 1993 | 173501 | 2275 | 1.31 | |
| 1994 | 198912 | 2566 | 1.29 | |
| 1995 | 227349 | 2906 | 1.28 | |

Source : Planning Commission

Capital Invested and Employment in respect of Government of India Companies functioning in Kerala

(Rs. in lakhs)

| Sl.No | Name of Company | Capital Invested | | Employment | |
|-------|-------------------------------------------------|------------------|------------------|------------------|------------------|
| | | As on 31.3.96 | As on 31.3.97 | As on 31.3.96 | As on 31.3.97 |
| 1. | Kerala Lakshmi Mills, Thrissur | 894.56 | 1025.44 | 732 | 698 |
| 2. | Cochin Refineries Ltd, Ernakulam | 35159 | 33702 | 1535 | 1593 |
| 3. | Modern Food Industries (India) Ltd. Kochi | NA | NA | 223 | 228 |
| 4. | Hindustan Newsprint Ltd, Kottayam. | 8512.61 | 8505.07 | 1629 | 1587 |
| 5. | Instrumentation Ltd, Kanjikkode west, Palakkad. | 2740.26 | 2802.89 | 547 | 488 |
| 6. | HMT, Ernakulam | 647.01 | 628.98 | 2038 | 1501 |
| 7. | Hindustan Latex Ltd, Trivandrum | 3170.64 | 2736.44 | 2157 | 2125 |
| 8. | Fertilisers and Chemicals Travancore Ltd (FACT) | 65724.22 | 77682.87 | NA | 8036 |
| 9. | Kannoor Spinning & Weaving Mills | 604.57 | 556.38 | 297 | 273 |
| 10. | Vijayamohini Mills, Trivandrum | 980.36 | NA | 548 | NA |
| 11. | Cochin Shipyard Ltd, Kochi | 35343.20 | 36053.42 | 2497 | 2508 |

Source : Reports of the Companies concerned

Appendix - 6.8

Performance of Govt. of India Companies in Kerala in terms of Value of Production and Sales Turnover

| Sl.No. | Name of Company | Value of Production | | | Total Sales | Turnover |
|--------|------------------------------------------------------|--------------------------------------------|----------|---------|-------------|----------|
| | | 1995-96 | 1996-97 | 1996-97 | 1995-96 | 1996-97 |
| 1 | 2 | 3 | 4 | 5 | 6 | |
| 1. | Kerala Lakshmi Mills Thrissur | 2060.15 | 1897.28 | | 2000.95 | 1937.39 |
| 2. | Cochin Refineries Ltd. Ernakulam | 335103 | 392280 | | 338356 | 391775 |
| 3. | Modern Food Industries (India) Ltd Edappelly, Cochin | 785.60 (production value at prime cost) | 823.70 | | 1819.20 | 2017.70 |
| 4. | Hindustan Newsprint Ltd. Kottayam | 27117 | 15472 | | 26922.98 | 14193.50 |
| 5. | Instrumentation Ltd. Kanjikkode west Palakkad | 2574.31 | 3231.40 | | 2874.92 | 3886.59 |
| 6. | HMT Ltd. Ernakulam | 4659 | 4988 | | 4656 | 5088 |
| 7. | Hindustan Latex Ltd. Trivandrum | 4269.46 | 8238.44 | | 5259.54 | 8188.37 |
| 8. | Fertilizers and Chemicals Travencore Ltd. (FACT) | NA | NA | | 110738 | 96036 |
| 9. | Cennanore Spinning & Weaving Mills | 1445.40 | 1227.72 | | 1391.52 | 1323.18 |
| 10. | Vijayamohani Mills, Trivandrum | NA | NA | | NA | NA |
| 11. | Cochin shipyard Ltd. Kochi | 11781 | 11205.51 | | 11785 | 11207.73 |

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Source : Reports of the Companies concerned

Production and Capacity Utilisation in Government of India Companies Functioning in Kerala

| Sl.No | Name of Companies | Name of Products | Unit | Installed capacity as on | | | | | | Production during | | Capacity utilisation (%) | |
|-------|------------------------------------------------------------|------------------------------------------------------|----------------|-------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------|--------|--------|-------------------|---------|--------------------------|---------|
| | | | | 31.3.96 | 31.3.97 | 7 | 8 | 9 | 10 | 1995-96 | 1996-97 | 1995-96 | 1996-97 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | |
| 1 | Kerala Lakshmi Mills Thrissur | Cotton yarn | Lakh kg | 41328 | 41328 | 18.33 | 18.42 | - | - | - | - | - | - |
| 2 | Cochin Refineries Ltd | Petroleum/Petro chemical products | Million M.T | 7.50 | 7.50 | 7.42 | 7.30 | 98.93 | 97.33 | | | | |
| 3 | Modern Food Industries, Edappally. | Modern Bread & Bun of 400gms each | Lakh SL | 287 | 287 | 316.20 | 313.90 | 110.17 | 109.37 | | | | |
| 4 | Hindustan Newsprint Ltd. Kottayam | Newsprint | M.T | 100000 | 100000 | 101111 | 70287 | 101 | 70.28 | | | | |
| 5 | Instrumentation Ltd, Palakkad | 1. Process Control Valves | Nos | 7500 | 7500 | 4748 | 4216 | 63.30 | 58.21 | | | | |
| | | 2. Safety relief Valves and pressure reducing valves | Nos | 2000 | 2000 | 404 | 506 | 20.2 | 25.30 | | | | |
| | | 3. On/Off Plate/Flow measuring devices. | Nos | 500 | 500 | 21 | 141 | 4.20 | 28.20 | | | | |
| | | 4. Miscellaneous Items | Nos. | - | - | 701 | NA | - | - | | | | |
| 6 | H.M.T. Ltd, Kalamassery | Machine Tools | Nos | 785 | 1382 | 483 | 418 | 63.13 | 30.69 | | | | |
| 7 | Hindustan Latex Ltd, Trivandrum | 1. Condoms | Million pieces | 576 | 578 | 813.25 | 627.98 | 106.46 | 109.02 | | | | |
| 8 | The Fertilizers and Chemicals Travancore Ltd. Udyogamandal | 1. Ammonium Sulphate | M.T | 225000 | 225000 | 207982 | 188088 | 92.40 | 84.00 | | | | |
| | | 2. Factamfos 20:20 | M.T | 148500 | 148500 | 159761 | 139735 | 107.58 | 94.04 | | | | |
| | Cochin Division | 1. Urea | M.T | 330000 | 330000 | 286910 | 239183 | 80.88 | 72.479 | | | | |
| | | 2. Factamfos 20:20 | M.T | 485000 | 485000 | 565658 | 518700 | 116.30 | 106.94 | | | | |
| | Petrochemical Division | Caprolactam | M.T | 50000 | 50000 | 47098 | 41058 | 94.20 | 82.11 | | | | |
| | Marketing Division | Mixed Manures | M.T | N.A | N.A | 47662 | 44975 | - | - | | | | |
| 9 | Vijayamohini Mills, TVPM | Yarn Production | Lakh kg | 30476 (spindles) | 30476 (spindles) | 10.50 | 10.95 | - | - | | | | |
| 10 | Cannanore Spinning & Weaving Mills, Cannanore | Yarn in different counts | Lakh kg | 24800 (spindles) | 24800 (spindles) | 13.83 | 13.59 | - | - | | | | |
| 11 | Cochin shipyard Ltd, Cochin | 1. Ships and Small crafts | DWT | 2 Ships of 75000 DWT of ship-building per annum | 2 Ships of 75000 DWT of ship-building per annum | Tug 2 nos | Petrol boats 5 nos | - | - | | | | |
| | | 2. Ship Repair | GRT | One Million GRT of ship repair per annum | One Million GRT of ship repair per annum | 38 nos ships repaired | 44 nos ships repaired | - | - | | | | |

Source : Reports of the Companies concerned

Capital Invested and Employment in respect of Government owned Companies in Kerala

| Sl.No | Name of Company | Capital Invested (Rs. in lakhs) | | | Employment (Nos) | |
|-------|-------------------------------------------------------|-----------------------------------|------------------|------------------|------------------|--|
| | | As on 31.3.96 | As on 31.3.97 | As on 31.3.96 | As on 31.3.97 | |
| 1 | 2 | 3 | 4 | 5 | 6 | |
| 1. | Malabar Cements Ltd. | 4213.15 | 3942.25 | 1114 | - | |
| 2. | Kerala Electrical and Allied Engineering Company Ltd. | 6539.15 | 7053.77 | 1546 | 1554 | |
| 3. | Travancore Plywood Industries Ltd. | 656.51 | 672.66 | 540 | 519 | |
| 4. | Kerala Clays & Ceramics Products Ltd. | 158.62 | 160.91 | 390 | 384 | |
| 5. | Steel Industriels Kerala Ltd. | 4620.82 | 4722.50 | 433 | 423 | |
| 6. | Kerale Automobiles Ltd. | 2487.44 | 2545.04 | 397 | 413 | |
| 7. | Kerala State Textile Corporation | 2253 | 2464.40 | NA | 1648 | |
| 8. | Kerale Hi-tech Industries Ltd. | 4534.77 | 5244.51 | 320 | 308 | |
| 9. | Trivendrum Spinning Mills Ltd. | 746.06 | 833.17 | 425 | 365 | |
| 10. | Sitaram Textiles Ltd. | 1771.79 | 1892.91 | 833 | 635 | |
| 11. | Autokast Ltd. | 4357.19 | 4805.77 | 542 | 536 | |
| 12. | Kerala Minerale & Metals Ltd. | 3309.97 | 3223.94 | 949 | 938 | |
| 13. | Kerale Soaps & Oils Ltd. | 3339.79 | - | - | 240 | |
| 14. | Foam Mettings (Indie) Ltd. | 286.55 | 309.89 | - | 221 | |
| 15. | Kerale State Detergents and Chemicals Ltd. | 1654.34 | 1629.82 | - | 248 | |

Note:- Out of 20 companies 5 have not reported

Source : Reports of the Companies concerned

Performance of Government owned Companies in Kerala in terms of Value of production and Sales turnover

| Sl.No | Name of Company | Capital Invested | | | Employment (Nos) | | | (Amt in Rs. Lakhs) |
|-------|-------------------------------------------------------|------------------|-----------|-----------|------------------|-----------|--|--------------------|
| | | 1995 - 96 | 1996 - 97 | 1995 - 96 | 1996 - 97 | 1996 - 97 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 6 | | |
| 1. | Malabar Cements Ltd. | 9784.12 | 8786.65 | 10134.70 | 8711.31 | | | |
| 2. | Kerala Electrical and Allied Engineering Company Ltd. | 5688.28 | - | 8214.37 | 6587.84 | | | |
| 3. | Travancore Plywood Industries Ltd. | 151.23 | 51.20 | 159.31 | 54.72 | | | |
| 4. | Kerala Clays & Caramics products Ltd. | 192.31 | 213.23 | 243.28 | 249.07 | | | |
| 5. | Steel Industrial Karala Ltd. | 1969.86 | - | 1930.93 | 1828.58 | | | |
| 6. | Karala Automobiles Ltd. | 1721.54 | 1942.27 | 2084.90 | 2681.78 | | | |
| 7. | Karala Stata Textile Corporation | 3520.57 | 3780.06 | 3341.63 | 3785 | | | |
| 8. | Kerala Hi-tech Industinas Ltd. | 611.85 | 809.31 | 381.18 | 598.02 | | | |
| 9. | Trivandrum Spinning Mills Ltd. | 514.69 | 595.66 | 514.98 | 584.17 | | | |
| 10. | Sitarum Textiles Ltd. | 1678.00 | 1315.14 | 1324.71 | 1276.04 | | | |
| 11. | Autokast Ltd. | 1248.32 | N.A | 1209.78 | 683.58 | | | |
| 12. | Karala Minerals & Metals Ltd. | 13744.27 | 7798.19 | 15983.84 | 4800.36 | | | |
| 13. | Karala Soaps & Oils Ltd. | - | - | - | - | | | |
| 14. | Foam Matings (India) Ltd. | - | - | 782.17 | 743.67 | | | |
| 15. | Kerala Stata Datergents and Chemicals Ltd. | - | - | 63.74 | 67.07 | | | |

Note:- Out of 20 companies 5 have not reported

Source : Reports of the Companies concerned

Production and Capacity Utilisation of Government owned companies in Kerala during 1995-96 and 1996-97

| Sl.No | Name of Company | Name of Products | Unit | Installed capacity as on | | | Production during | | | Capacity utilisation (%) | |
|-------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|--------------------------|---|
| | | | | 31.3.96 | 31.3.97 | 6 | 1995-96 | 1996-97 | 7 | 8 | 9 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| 1. | Malabar Cements Ltd. | Cement | M.T | 420000 | 420000 | 365352 | 279222 | 87 | 66.50 | | |
| 2. | Kerala Electrical and Allied Engineering Company Ltd. | 1. Distribution of Transformers 2. Street Structures 3. HRC fuses 4. Cast Iron Specials 5. Alternators (T.L) 6. Electric & Wiring Accessories 7. Alternators (G.P) & D.G. Sets | KWA M.T Nos M.T Nos Nos Nos | 120000 1200 120000 1500 3000 133000 3000 | 120000 1200 120000 1500 3000 133000 3000 | 425805 844.31 12318 651.12 1295 279703 765 | 444015 731.93 14688 257.19 1542 277751 1110 | 354.80 70.35 10.28 43.40 43.17 215.15 25.50 | 670 61 12.23 17.15 51.40 213.65 37 | | |
| 3. | Travancore Plywood Industries Limited. | Plywood and Allied Articles | Sq: Mtr (4mm) | 27.38 | 27.38 | 1.88 | 0.72 | 6.86 | 2.82 | | |
| 4. | Kerala Clays & Ceramics Products Ltd. | 1. China clay 2. Bricks 3. Laterite (Low Grade Bauxite) | M.T Nos M.T | N.A N.A N.A | N.A N.A N.A | 12085 96504 7745 | 12855 45559 6485 | - - - | - - - | | |
| 5. | Steel Industrials Kerala Ltd | 1. Structural Steel Fabrication 2. Generation of Ferrous scrap by breaking ships 3. Cast Iron Three Wheelers | M.T M.T M.T Nos | 3000 10000 1200 6000 | 3000 10000 1200 7200 | 1264 - - 5007 | 562 85 521 5849 | 39.33 - - 83.45 | 18.72 0.85 43.42 78.45 | | |
| 8. | Kerala Automobiles Ltd. | | | | | | | | | | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|----------------------------------------------------------------------|-----------------------------------------------------|------------------------|---------|---------|---------------------|----------------------|-------|-------|
| 7. | Kerele Hitech Industries Ltd. | 1. Rocket Motor Cases | Nos | 12 | 12 | - | - | - | - |
| | | 2. Titanium Alloy gas bottles | Nos | 60 | 80 | - | - | - | - |
| | | 3. Liquid Engine | Nos | 3 | 3 | N.A | N.A | N.A | N.A |
| | | 4. Control system components | Sets | 2 | 2 | N.A | N.A | N.A | N.A |
| | | 5. Systems of Turbojet air craft engine | Nos | 3 | 3 | N.A | N.A | N.A | N.A |
| 8. | Kerala State Textile Corporation | Cotton & Blended yarn | Spindles/ lakh kgs. | 77596 | 86236 | 26.97 | 29.03 | - | - |
| 9. | Trivandrum Spinning Mills Ltd. Trvpm. | Cotton yarn and Polyester yarn of different counts. | Spindles | 25200 | 25200 | 4.92 (lakh kgs) | 6.09 (lakh kgs) | - | - |
| 10. | Kerala State Electronics Development Corporation Ltd. Trivandrum. | Various Electronics/ products systems. | N.A | N.A | N.A | N.A | N.A | N.A | N.A |
| 11. | Siteram Textiles Ltd. Thrissur. | 1. Yarn | Spindles | 16304 | 16304 | 8.31 (lakh kg) | 8.11 (lakh kg) | - | - |
| | | 2. Cloths | looms | 336 | 336 | 43.5 (lakh mtrs) | 27.97 (lakh mtrs) | - | - |
| 12. | Autokast Ltd. Cherthala | 1. G.I.Castings | M.T | 23000 | 23000 | 4939.18 | 3037 | 21.47 | 13.20 |
| 13. | The Kerala Minerals and Metals Ltd, Chavara. | 1. Titanium Dioxide (TiO2) | M.T | 22000 | 22000 | 15377.73 | 10115.65 | 69.89 | 45.98 |
| | | 2. Ilmenite | M.T | 25000 | 25000 | 12054 | 12103.00 | 48.21 | 48.41 |
| | | 3. Rutile | M.T | 2400 | 2400 | 691.35 | 612.75 | 28.80 | 25.53 |
| | | 4. Zircon | M.T | 1500 | 1500 | 222.70 | 132.50 | 14.84 | 8.83 |
| | | 5. Loucoxene | M.T | 300 | 300 | N.A | N.A | N.A | - |
| | | 6. Monozite | M.T | 240 | 240 | N.A | N.A | N.A | - |
| 14. | Foam Matings (Indie) Ltd | 1. Bere Matings | Sq.Mt | 475000 | 475000 | 269475 | 257450 | 56.73 | 54.2 |
| | | 2. Backing Plant | Sq.Mt | 1200000 | 1200000 | 1677016 | 1147608 | 100 | 95.63 |
| 15. | Kerala State Detergents & Chemicals Ltd. | Cakes & Bars | M.T | 7200 | 7200 | 41.39 | 49.23 | 0.57 | 0.68 |

Note:- Out of 20 companies 5 have not reported
Source : Reports of the Companies concerned

Capital Invested and Employment in respect of Government Majority Companies in Kerala

| Sl.No | Name of Company | Capital Invested (Rs. lakhs) | | | | Employment (Nos) | | |
|-------|-------------------------------------------------------|------------------------------|---|------------------|---|------------------|---|------------------|
| | | As on 31.3.96 | 3 | As on 31.3.97 | 4 | As on 31.3.96 | 5 | As on 31.3.97 |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1. | Forest Industries (Travancore) Ltd., Aluva. | 100.52 | | 157.58 | | 158 | | 157 |
| 2. | The Travancore Cements Ltd. Kottayam | 50.00 | | 50.00 | | 648 | | 673 |
| 3. | Keltron Component Complex Ltd. Kannur | 1490.44 | | 1573.47 | | 359 | | 354 |
| 4. | Keltron Counters Ltd., Trivandrum | 1273.84 | | 1364.75 | | 302 | | 299 |
| 5. | Keltron Electro Ceramics Ltd., Malappuram | 531.14 | | 535.41 | | 106 | | 100 |
| 6. | Keltron Magnetics Ltd., Kannur | 129.24 | | 152.47 | | 32 | | 32 |
| 7. | Travancore Sugers & Chemicals Ltd. | 51.00 | | 51.00 | | 424 | | 397 |
| 8. | The Travancore-Cochin Chemicals Ltd. Kochi. | 1331.19 | | 6554.10 | | N.A | | 1202 |
| 9. | United Electrical Industries Ltd., Kollam | 399.07 | | 399.06 | | 461 | | 451 |
| 10. | Travancore Titanium Products Ltd. | 176.75 | | 176.75 | | 1345 | | 1522 |
| 11. | The Metropolitan Engineering Company Ltd., Trivandrum | 548.16 | | 565.49 | | N.A | | 144 |
| 12. | TRACO Cable Company Ltd., Cochin | 5545.96 | | 5862.02 | | 798 | | 776 |
| 13. | The Metal Industries Ltd., Shoranur | 67.85 | | 91.22 | | 121 | | 124 |
| 14. | Transformers and Electricals Kerala Ltd., Angemali. | 4191.39 | | 4313.21 | | 1685 | | 1650 |

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Note :- Out of 24 Companies 10 have not reported

Source : Reports of the Companies concerned

Performance of Govt. Majority Companies in Kerala in terms of value of Production and Sales turnover during 1995-96 & 96-97

| Sl.No | Name of Company | Value of Production | | | Sales turn over | | |
|-------|-------------------------------------------------------|---------------------|-----------|-----------|-----------------|-----------|---|
| | | 1995 - 96 | 1996 - 97 | 1995 - 96 | 1995 - 96 | 1996 - 97 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Forest Industries (Travancore) Ltd., Aluva. | 279.11 | 246.69 | 303 | 249.92 | | |
| 2. | The Travancore Cements Ltd. Kottayam | 3076.00 | 3001.00 | 3093 | 2960 | | |
| 3. | Keltron Component Complex Ltd. Kannur | 2317.33 | 2180.15 | 3258.44 | 2687.16 | | |
| 4. | Keltron Counters Ltd., Trivandrum | 375.21 | 424.33 | 409.22 | 490.97 | | |
| 5. | Keltron Electro Ceramics Ltd., Malappuram | 440.31 | 370.35 | 534.57 | 422.77 | | |
| 6. | Keltron Magnetics Ltd., Kannur | 20.38 | 22.79 | 22.65 | 25.73 | | |
| 7. | Travancore Sugars & Chemicals Ltd. | N.A | N.A | 225.79 | 97.49 | | |
| 8. | The Travancore-Cochin Chemicals Ltd. Kochi. | 7764.80 | 6354.36 | 7654.36 | 6390.71 | | |
| 9. | United Electrical Industries Ltd., Kollam | 1020.34 | 1073.87 | 1024.63 | 1092.48 | | |
| 10. | Travancore Titanium products Ltd. | 6458.86 | 6136.08 | 6526.89 | 6597.06 | | |
| 11. | The Metropolitan Engineering Company Ltd., Trivandrum | 370.67 | 280.65 | 416.78 | 264.06 | | |
| 12. | TRACO Cable Company Ltd., Cochin | 6899.91 | 6648.16 | 6741.78 | 6800.60 | | |
| 13. | The Metal Industries Ltd., Shoranur | 162 | 159 | 143 | 146 | | |
| 14. | Transformers and Electricals Kerala Ltd., Angamali. | 8741 | 8355 | 8275 | 8721 | | |

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Note:- Out of 24 Companies 10 have not reported

Source : Reports of the Companies concerned

Production and Capacity Utilisation of Government Majority Companies in Kerala during 1995-96, 1996-97

| Sl.No | Name of Company | Name of Products | Unit | Installed capacity (Qty) as on | | Qty of Production during | | Capacity utilisation (%) | |
|-------|------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------|-------------------------|-----------------------------|-----------------------------|--------------------------|--------------------------------|
| | | | | 31.3.96 | 31.3.97 | 1995-96 | 1996-97 | 1995-96 | 1996-97 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Forest Industries ('Travancore)Ltd Aluva | Wooden Furniture and Joinerias | M ³ | 1500 | 1500 | 1146 | 591.84 | 76.4 | 39.45 |
| 2. | The Travancore Cemans Ltd. | 1. White Cement 2. Cement paint | MT MT | 30000 1050 | 30000 1050 | 32796 2338 | 27344 1989 | 109.32 222.67 | 91.14 189.00 |
| 3. | Keltron Component Complex Ltd. | Aluminium Electrolytic Capacitors | Million Nos. | 150 | 150 | 118.66 | 100.45 | 79.10 | 70.00 |
| 4. | Kaltron Countars Ltd | Counting davica | Nos | 1000000 | 1000000 | 181931 | 107320 | 18.19 | 10.73 |
| 5. | Kaltron Electro Ceramics Ltd. | 1. Ceramics capacitors 2. NTC Thermistors 3. Buzzar / Ringer 4. Matal Oxida Varistors | Lakh Nos. " " " | 800 5 NA NA | 1100 7 7 10 | N.A " " " | 641 4 5.53 0.01 | N.A " " " | 58.27 57.14 79.00 0.1 |
| 6. | Keltron Magnatics Ltd. | 1. Sarvo Controlled Voltage Stabilizar 2. Unintarruptad power supply systams 3. M.P.P Capacitors | " " " | 5000 100 | 5000 50 250000 | 202 9 | 151 4 9692 | 4.04 9 | 30.2 8.00 2.37 |
| 7. | The Tavancore Sugars and Chemicals Ltd. | 1. Sugar 2. Spirit 3. I.M.F.L 4. Arrack | 750 tonnes cana par day Lakh Proof Litre K.B.L.(PL) Lakh proof filters | 900 tonnes cana par day 45.53 Nil .. | Nil NA Nil NIL | Nil 5.00 3375 3.12 | Nil 5.94 124875 .. | Nil 11.17 NA NA | Nil Nil NA NA |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------------------------------------|-----------------------------------------------------------------------------------------|----------------------|----------------------|-----------------------|-----------------------|----------------------|-------------------------|-------------------------|
| 8. | Transformers and Electricals Kerala Ltd. | 1. Power Transformers 2. Current & Potential Transformers 3. Gas Circuit Breakers | MVA NOS NOS | 4500 1000 100 | 4500 1000 100 | 3910 579 27 | 3230 541 49 | 86.88 57.9 27 | 71.77 54.1 49 |
| 9. | The Travancore Cochin Chemicals Ltd. | 1. Caustic soda 2. Chlorine products | MT MT | 52800 46464 | 52800 46464 | 51964 45139 | 37582 33072 | 98.4 97.14 | 71.17 71.17 |
| 10. | United Electrical Industries Ltd. | 1. KWH Meters 2. Motor control gears and other products. | Nos Nos | 300000 4500 | 300000 4500 | 276878 2003 | 283804 1234 | 92.29 44.5 | 94.60 27.42 |
| 11. | Travancore Titanium Products Ltd. | Titanium Dioxide | MT | 15000 | 15000 | 14027 | 11056 | 93.51 | 73.70 |
| 12. | The Metropolitan Engineering Company Ltd. | Switches Transformers Fire, Extinguishers Transformer & ABS Repair. | NA NA NA NA | NA NA NA NA | NA NA NA NA | NA NA NA NA | NA NA NA NA | NA NA NA NA | NA NA NA NA |
| 13. | Traco Cable Company Ltd. | AAC & ACSR PVC & Power cables JFTC(Jelly Filled Tele phone cables) | MT MCM LCKM | 1500 32.92 7.3 | 1500 32.92 17.5 | 1156 17.18 4.61 | 851 4.08 2.98 | 77.06 52.18 63.15 | 56.73 12.39 17.02 |
| 14. | The Metal Industries Ltd. | Agricultural implements | MT | 436 | 436 | 375 | 340 | 86 | 78 |

Note :- Out of 24 Companies 10 have not reported

Source : Reports of the Companies concerned

Sectorwise Summary of performance of Public Sector Enterprises in Kerala 1996-97

| Sl.No. | Sector | No. of Units | Total Empt. | Paid up Capital | Capital invested | Unit of profit | | Unit of loss | | Net profit/ loss(-) | No. of dividend declared enterprises | Contribution to exchequer | |
|--------|-------------------------------|--------------|-------------|-----------------|------------------|----------------|----------|--------------|----------|---------------------|--------------------------------------|---------------------------|----------|
| | | | | | | No. of Units | Amount | No. of Units | Amount | | | Centre | State |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1 | Development & Infrastructural | 11 | 5132 | 38114 | 131118.16 | 8 | 3953.95 | 2 | 1539.6 | 2414.35 | 2 | 1.73 | 114.87 |
| 2 | Ceramics & Refractories | 8 | 1296 | 1197.5 | 1722.65 | 1 | 54.29 | 2 | 157.92 | -103.63 | 1 | 45.74 | 22.79 |
| 3 | Chemical Industries | 12 | 7115 | 8308.25 | 18091.01 | 5 | 1823.4 | 4 | 423.32 | 1400.08 | 3 | 6079.04 | 1560.55 |
| 4 | Electrical Equipment | 5 | 4633 | 6386.82 | 16858.91 | 5 | 349.35 | | 0 | 349.35 | | 3698.87 | 684.9 |
| 5 | Electronics | 10 | 3660 | 11413.18 | 24223.68 | 3 | 29 | 6 | 3463.66 | -3434.66 | | 1123.28 | 58.42 |
| 6 | Engineering | 11 | 3590 | 8373.83 | 24778.25 | 4 | 686.45 | 7 | 2465.12 | -1778.67 | 1 | 1050.42 | 158.95 |
| 7 | Plantation & Agro Based Units | 12 | 12198 | 5782.13 | 7299.69 | 6 | 2590 | 6 | 322.45 | 2267.55 | 2 | 163 | 683 |
| 8 | Textiles | 4 | 2796 | 2562.57 | 5441.08 | | 0 | 4 | 667.22 | -667.22 | | 333 | 79.31 |
| 9 | Wood Based Industries | 3 | 676 | 86.3 | 1039.78 | 1 | 0.83 | 1 | 260.12 | -259.49 | | 26.06 | 37.3 |
| 10 | Traditional Industries | 7 | 23741 | 14288.09 | 17261.24 | 3 | 198.6 | 3 | 844.18 | -645.58 | | 23.45 | 78.44 |
| 11 | Trading Units | 3 | 3173 | 992.9 | 17967.31 | 2 | 387.98 | 1 | 3728.85 | -3398.87 | 2 | 341.7 | 36266.3 |
| 12 | Welfare Agencias | 8 | 379 | 3038.54 | 4879.45 | | 0 | 4 | 87.27 | -87.27 | | 0 | 0 |
| 13 | Public Utilities | 5 | 62354 | 106034.96 | 419185.95 | 2 | 2642.91 | 3 | 11460.76 | -8817.85 | | 0 | 9.57 |
| 14 | Others* | 13 | 175 | 8277.89 | 9558.69 | 2 | 377.39 | 0 | 0 | 377.39 | 1 | 0 | 0 |
| | Total | 110 | 130916 | 213856.98 | 699423.85 | 42 | 13093.95 | 43 | 25418.47 | -12324.52 | 12 | 12886.29 | 39748.40 |
| | Less: Statutory Bodies | 9 | 83544 | 120405.10 | 476374.49 | 4 | 4206.48 | 2 | 11456.73 | -7251.25 | 2 | - | 3.75 |
| | Companies | 101 | 67374 | 93451.8 | 223049.38 | 38 | 8888.47 | 41 | 13961.74 | -5073.27 | 10 | 12888.29 | 39744.65 |

Note : 1. Column 3 = Column7 + Column9. The difference in any le dua to information not available or units not yet commenced commercial activities

* - Only eight units which are working are included

Source : Cantra For Management Development, Thiruvananthapuram.

Appendix - 6.17

Particulars of Joint Stock Companies in Kerala at the end of March 1996 and 1997

| Sl. No. | Particulars | Private Limited | Public Limited | Total |
|---------|---------------------------------------------------------------------------------------------------------------|-----------------|----------------|-------|
| 1. | Number of Joint Stock Companies in Kerala as on 31-3-1996 | 7153 | 1178 | 8331 |
| 2. | Number of Companies Newly registered during 1996-97 | 1044 | 60 | 1104 |
| 3. | Number of Companies transferred from other states during 1996-97 | Nil | 3 | 3 |
| 4. | Number of Companies wound up/ struck off / amalgamated during 1996-97 | 20 | 7 | 27 |
| 5. | No. of Companies transferred to other states during 96-97 | 1 | Nil | 1 |
| 6. | Net addition to the total number of Joint Stock Companies in Kerala during 96-97. Items (2 + 3) - (4 + 5) | 1023 | 56 | 1079 |
| 7. | Total No. of Joint Stock Companies in Kerala as on 31.3.97(1+6) | 8176 | 1234 | 9410 |
| 8. | Total No. of Govt. Companies registered in Kerala as on 31.3.96 | 73 | 32 | 105 |
| 9. | Total No. of Govt. Companies registered in Kerala during 1996-97 | NIL | NIL | NIL |
| 10. | No. Of Government Companies would up during 96-97 | NIL | NIL | NIL |
| 11. | Net addition to the total number of Govt. companies during 96-97 Item No. (9 - 10) | NIL | NIL | NIL |
| 12. | Total number of Govt. companies in Kerala as on 31.3.1997 (Items 8 + 11) | 73 | 32 | 105 |
| 13. | Name of Govt. companies, newly registered in Kerala during 1996-97 | N.A | .. | .. |

Source : Office of the Register of Joint Stock Companies , Kochi

District wise Details of small scale Industrial Units Registered in Kerala during the year 1996 - 97

| Sl.No | Name of District | Number of SSI units promoted by | | | | | | | Investment Rs in lakhs | Value of Goods & Services produced (Rs in lakhs) | Employment provided (No) | Total No. of units Commenced comml. operations. | |
|-------------|--------------------|---------------------------------|-----|-------|--------|-------|----------|-----------|---------------------------|--------------------------------------------------------|-----------------------------|-------------------------------------------------------|---|
| | | S.C | S.T | Women | Others | Total | 3 | 4 | | | | | 5 |
| 1. | Thiruvananthapuram | 49 | 14 | 159 | 1683 | 1905 | 2639.29 | 3593.47 | 6234 | 1905 | | | |
| 2. | Kollam | 135 | Nil | 486 | 1013 | 1634 | 5832.52 | 4389.28 | 4818 | 1634 | | | |
| 3. | Pathanamthitta | 27 | Nil | 216 | 669 | 912 | 806.16 | 1183.94 | 1897 | 912 | | | |
| 4. | Alappuzha | 106 | 2 | 479 | 926 | 1513 | 2586.06 | 2817.64 | 8050 | 1513 | | | |
| 5. | Kottayam | 17 | Nil | 260 | 1423 | 1700 | 2028.50 | 5800.00 | 5199 | 1700 | | | |
| 6. | Idukki | 16 | 7 | 181 | 231 | 435 | 483.11 | 709.83 | 1520 | 435 | | | |
| 7. | Ernakulam | 14 | 2 | 540 | 1671 | 2227 | 6975.20 | 71746.26 | 11144 | 2227 | | | |
| 8. | Thrissur | 95 | Nil | 105 | 1550 | 1750 | 3294.04 | 4581.19 | 7450 | 1750 | | | |
| 9. | Palakkad | 7 | Nil | 70 | 1473 | 1550 | 2973.00 | 4460.00 | 6202 | 1550 | | | |
| 10. | Malappuram | 13 | Nil | 70 | 817 | 900 | 1210.12 | 3390.00 | 3033 | 900 | | | |
| 11. | Kozhikode | 115 | Nil | 318 | 842 | 1275 | 1707.49 | 7050.00 | 4204 | 1275 | | | |
| 12. | Wayanad | 1 | 13 | 124 | 182 | 320 | 1095.97 | 7885.57 | 1160 | 320 | | | |
| 13. | Kannur | 19 | 8 | 132 | 841 | 800 | 1016.00 | 4755.60 | 2040 | 800 | | | |
| 14. | Kasargod | 12 | 26 | 98 | 364 | 500 | 433.75 | 1980.04 | 1709 | 500 | | | |
| State Total | | 626 | 72 | 3238 | 13485 | 17421 | 33081.21 | 124142.82 | 64660 | 17421 | | | |

Source : Directorate of Industries and Commerce, Thiruvananthapuram

District wise details of Registered Small scale Industrial Units in Kerala as on 31.3.1997

| Sl.No | Name of District | Number of SSI units promoted by | | | | Total | Total Investment lakhs of rupees | Value of Goods & Services produced Rs in lakhs | Employment provided (No) |
|-------|--------------------|---------------------------------|-------|--------|--------|-----------|-------------------------------------|------------------------------------------------------|-----------------------------|
| | | S.C/S.T | Women | Others | Total | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 1. | Thiruvananthapuram | 1055 | 2909 | 13598 | 17562 | 16544.15 | 58034.26 | 72274 | |
| 2. | Kollam | 1239 | 3105 | 10507 | 14851 | 20463.77 | 47855.49 | 133207 | |
| 3. | Pathanamthitta | 518 | 1646 | 4528 | 6692 | 4918.43 | 10593.33 | 25821 | |
| 4. | Alappuzha | 460 | 2397 | 11859 | 14716 | 15970.13 | 61960.64 | 81686 | |
| 5. | Kottayam | 286 | 2518 | 13772 | 16576 | 16233.54 | 47124.64 | 62342 | |
| 6. | Idukki | 311 | 1375 | 2945 | 4631 | 3236.91 | 9106.54 | 18184 | |
| 7. | Ernakulam | 845 | 2732 | 18404 | 21981 | 37239.77 | 166626.39 | 108881 | |
| 8. | Thrissur | 1059 | 1978 | 13956 | 16993 | 24029.50 | 62743.75 | 73434 | |
| 9. | Palakkad | 613 | 1672 | 9956 | 12241 | 16463.60 | 35723.31 | 64858 | |
| 10. | Malappuram | 700 | 907 | 5827 | 7434 | 10857.03 | 18039.71 | 29703 | |
| 11. | Kozhikode | 334 | 1724 | 9804 | 11862 | 10786.28 | 42787.32 | 61346 | |
| 12. | Wayanad | 177 | 928 | 1657 | 2762 | 2555.26 | 9056.04 | 9335 | |
| 13. | Kannur | 229 | 891 | 7342 | 8462 | 9111.20 | 56378.78 | 73926 | |
| 14. | Kasargod | 137 | 528 | 3116 | 3781 | 3859.50 | 6980.99 | 26599 | |
| | State Total | 7963 | 25310 | 127271 | 160544 | 192269.07 | 633011.19 | 839596 | |

Source : Directorate of Industries and Commerce, Thiruvananthapuram

Working Status of Small Scale units as on 31st March, 1997

| Sl. No. | Name of District | Total No. of Units | No. of units identified | | | | Units revived during 1996-97 | De-regd. units as on 31.3.97 |
|-------------|--------------------|--------------------|-------------------------|---------------|---------|-----|------------------------------|------------------------------|
| | | | as sick. | regd. as sick | Revived | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 1. | Thiruvananthapuram | 17562 | 233 | 212 | 75 | 2 | 871 | |
| 2. | Kollam | 14851 | 349 | 205 | 89 | 3 | 174 | |
| 3. | Pathanamthitta | 6692 | 160 | 52 | 46 | Nil | 98 | |
| 4. | Alappuzha | 14716 | 362 | 180 | 176 | Nil | 309 | |
| 5. | Kottayam | 16576 | 262 | 239 | 91 | Nil | 471 | |
| 6. | Idukki | 4631 | 49 | 40 | 23 | Nil | 150 | |
| 7. | Ernakulam | 21981 | 1080 | 203 | 203 | Nil | 719 | |
| 8. | Thrissur | 16993 | 214 | 110 | 44 | 1 | 44 | |
| 9. | Palakkad | 12241 | 106 | 78 | 21 | 2 | 269 | |
| 10. | Malappuram | 7434 | 134 | 54 | 34 | Nil | 244 | |
| 11. | Kozhikode | 11862 | 220 | 181 | 79 | 3 | 372 | |
| 12. | Wayanad | 2762 | 54 | 44 | 14 | Nil | 65 | |
| 13. | Kannur | 8462 | 85 | 81 | 34 | 3 | 51 | |
| 14. | Kasargod | 3781 | 33 | 23 | 6 | Nil | 64 | |
| State Total | | 160544 | 3341 | 1702 | 935 | 14 | 3901 | |

Source : Directorate of Industries and Commerce, Thiruvananthapuram

Details of Entrepreneurship Development Programme conducted during 1996-'97

| Sl.No | Name of District | Number of Entrepreneurs trained during 1996-'97 | | | | | | No. of trained Entrepreneurs who have started SSI units | No. of Entrepreneurs trained under PMRY scheme | |
|-------|--------------------|-------------------------------------------------|-----|------|--------|-------|-----|---------------------------------------------------------|------------------------------------------------|---|
| | | S.C | | S.T | Others | Total | 7 | | | 8 |
| | | 3 | 4 | | | | | | | |
| 1. | Thiruvananthapuram | Nil | Nil | 44 | 44 | 44 | 8 | 1463 | | |
| 2. | Kollam | 16 | Nil | 110 | 126 | 126 | 31 | 939 | | |
| 3. | Pathanamthitta | Nil | Nil | Nil | Nil | Nil | Nil | 540 | | |
| 4. | Alappuzha | Nil | Nil | 23 | 23 | 23 | Nil | 817 | | |
| 5. | Kottayam | 1 | 1 | 34 | 36 | 36 | 11 | 952 | | |
| 6. | Idukki | 52 | Nil | Nil | 52 | 52 | 20 | 321 | | |
| 7. | Ernakulam | Nil | Nil | 131 | 131 | 131 | Nil | 913 | | |
| 8. | Thrissur | Nil | Nil | Nil | Nil | Nil | Nil | 1168 | | |
| 9. | Palakkad | Nil | Nil | 421 | 421 | 421 | 3 | 881 | | |
| 10. | Malappuram | Nil | Nil | Nil | Nil | Nil | Nil | 220 | | |
| 11. | Kozhikode | 55 | Nil | 13 | 68 | 68 | Nil | 858 | | |
| 12. | Wayanad | 13 | 18 | 140 | 171 | 171 | Nil | 171 | | |
| 13. | Kannur | Nil | Nil | Nil | Nil | Nil | Nil | 812 | | |
| 14. | Kasargod | Nil | Nil | Nil | Nil | Nil | Nil | 369 | | |
| 15. | CFSC CHRY | 2 | Nil | 136 | 138 | 138 | 12 | | | |
| Total | | 139 | 19 | 1052 | 1210 | 1210 | 85 | 10424 | | |

Source : Directorate of Industries and Commerce, Thiruvananthapuram

Achievement under PMRY programme during 1996-'97

| Sl.No | Name of District | Application Sanctioned and Amount disbursed during 1996-97 | | | | Disbursement amount in Rs. lakhs |
|-------------|--------------------|------------------------------------------------------------|-----------------------------------|--------|-------------------------------------|-------------------------------------|
| | | Number | Sanctioned amount in Rs. lakhs | Number | Disbursement amount in Rs. lakhs | |
| 1 | 2 | 3 | 4 | 5 | 6 | |
| 1. | Thiruvananthapuram | 1903 | 972.55 | 1197 | 603.29 | |
| 2. | Kollam | 1462 | 753.18 | 1055 | 559.10 | |
| 3. | Pathanamthitta | 696 | 403.11 | 512 | 307.92 | |
| 4. | Alappuzha | 1205 | 729.52 | 1000 | 492.74 | |
| 5. | Kottayam | 1340 | 781.26 | 934 | 537.07 | |
| 6. | Idukki | 521 | 266.56 | 445 | 209.85 | |
| 7. | Ernakulam | 1647 | 994.76 | 1350 | 727.90 | |
| 8. | Thrissur | 1716 | 916.93 | 1492 | 762.31 | |
| 9. | Palakkad | 1306 | 578.55 | 825 | 331.23 | |
| 10. | Malappuram | 603 | 452.25 | 303 | 196.95 | |
| 11. | Kozhikode | 1148 | 649.31 | 747 | 416.89 | |
| 12. | Wayanad | 283 | 124.30 | 250 | 110.40 | |
| 13. | Kannur | 885 | 496.56 | 751 | 408.42 | |
| 14. | Kasargod | 386 | 220.38 | 295 | 167.20 | |
| State Total | | 15099 | 8339.22 | 11156 | 5831.27 | |

Source : Directorate of Industries and Commerce, Thiruvananthapuram

Industrial Co-operative Societies in Kerala as on 30.6.1997

| Sl. No. | Name of District | Industrial Co-operative Societies registered during 1996-97 | Total No. of ICS as on 30.6.1997 | | | | Total | Total Number of Societies |
|-------------|--------------------|-------------------------------------------------------------|----------------------------------|-----|-------|-------|-------|---------------------------|
| | | | S.C | S.T | Women | Total | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 1. | Thiruvananthapuram | 7 | 36 | 2 | 75 | 113 | 286 | |
| 2. | Kollam | 13 | 40 | - | 62 | 102 | 231 | |
| 3. | Pathanamthitta | 1 | 32 | - | 63 | 95 | 105 | |
| 4. | Alappuzha | 21 | 49 | - | 58 | 107 | 246 | |
| 5. | Kottayam | 6 | 18 | 3 | 63 | 84 | 149 | |
| 6. | Idukki | 2 | 26 | 13 | 18 | 57 | 86 | |
| 7. | Ernakulam | 33 | 8 | - | 170 | 178 | 186 | |
| 8. | Thrissur | 5 | 21 | - | 54 | 75 | 214 | |
| 9. | Palakkad | 8 | 49 | 6 | 64 | 119 | 124 | |
| 10. | Malappuram | 7 | 29 | - | 35 | 64 | 118 | |
| 11. | Kozhikode | 1 | 23 | 2 | 21 | 46 | 123 | |
| 12. | Wayanad | 5 | 3 | 27 | 15 | 45 | 55 | |
| 13. | Kannur | 2 | 1 | - | 63 | 54 | 197 | |
| 14. | Kasargod | 1 | 9 | 1 | 16 | 26 | 73 | |
| State Total | | 112 | 344 | 54 | 767 | 1165 | 2193 | |

Source : Directorate of Industries and Commerce, Thiruvananthapuram

Production and Productivity under Handloom Industry in Kerala

| Sl.No | Item | 1995 - 96 | 1996 - 97 |
|-------|---------------------------------------------------------------------------------------------------|-----------|-----------|
| 1 | 2 | 3 | 4 |
| 1. | Co-operative Sector | | |
| | i) Number of looms | 60509 | 61589 |
| | ii) Production of Handloom cloth (M.M) | 69.75 | 70.35 |
| | iii) Value of Production (Rs. crores) | 289.575 | 301.69 |
| | iv) Productivity (M/L/A) | 1153 | 1161 |
| | v) No.of weavers in the co-operative sector. | - | 104570 |
| | vi) Employment generated during the period (mandays in lakhs) | - | 574.00 |
| 2. | Corporate Sector / Unorganised / Private Sector | | |
| | i) Number of looms | 13305 | 14324 |
| | ii) Production of Handloom cloth (M.M) | 20.07 | 24.01 |
| | iii) Value of production (Rs. crores) | 65.09 | 68.89 |
| | iv) Productivity (M/L/A) | 1508 | 1676 |
| | v) No. of weavers in the Corporate sector | 7600 | 8205 |
| | (vi) Employment Generated during the year (Mandays in lakhs) | - | 36.00 |
| 3. | Total :- Co-operative , corporate and unorganised sector | | |
| | i) Number of looms | 60509 | 61589 |
| | ii) Production of Handloom cloth (M.M) | 89.82 | 94.43 |
| | iii) Value of production (Rs. crores) | 359.82 | 370.58 |
| | iv) Productivity (M/L/A) | 1484 | 1532 |
| | v) Number of Weavers | - | 112775 |
| | vi) Employment Generated (Mandays in lakhs) | - | 610.00 |
| 4. | Assistance Extended by way of loan and grant for the development of Handloom Industry (Rs. lakhs) | | |
| | (a) Loan:- | | |
| | i) State Government | 284.890 | 318.52 |
| | ii) Central Government | 117.585 | 198.38 |
| | iii) N.C.D.C, NABARD, HUDCO | 298.185 | 489.31 |
| | Total (a) | 680.460 | 1006.21 |

| 1 | 2 | 3 | 4 |
|----|-------------------------------------------------------------|------------|------------|
| | (b) Grant :- | | |
| | i) State Government | 978.306 | 1922.17 |
| | ii) Central Government | 767.883 | 828.03 |
| | iii) N.C.D.C, NABARD, HUDCO | 1746.188 | -- |
| | Total (b) | 3492.377 | 2750.20 |
| | (c) Amount spent as rebate on the sale of Handloom cloth :- | | |
| | i) State Government | 150.00 | 1169.92 |
| | ii) Central Govt. (MDA) 50% CSS. | 1077.00 | 169.85 |
| | Total (c) | 1227.00 | 1339.77 |
| 5. | Value of unsold stock (Rs. crores) | | |
| | a) In the Co-operative Sector | 29.19 | 32.56 |
| | b) In the Corporate Sector | 3.23 | 3.83 |
| | c) Unorgansied/ Private Sector | - | 1.76 |
| 6. | Number of Co-operative societies | | |
| | (a) Factory type :- | | |
| | i) Working | 109 | 111 |
| | ii) Dormant | 17 | 17 |
| | iii) Under liquidation | 2 | 2 |
| | iv) Not started working | 5 | 5 |
| | Total (a) | 133 | 135 |
| | (b) Cottage Type :- | | |
| | i) Working | 451 | 466 |
| | ii) Dormant | 60 | 60 |
| | iii) Under liquidation | 77 | 77 |
| | iv) Societies yet to start functioning | 14 | 15 |
| | Total (b) | 602 | 618 |
| | Grand Total (a + b) | 735 | 753 |

Source : Directorate of Handlooms and Textiles, Thiruvananthapuram.

Appendix - 6.25

Working Results of Handloom Apex Society (Hantex)

| Sl.No | Particulars | 1995 - 96 | 1996 - 97 |
|-------|-------------------------------------------------------------|-----------|-----------|
| 1 | 2 | 3 | 4 |
| 1. | Sales turnover (Rs. crores) | 26.15 | 26.83 |
| 2. | Value of cloth produced (Rs. in crores) | 0.60 | 0.63 |
| 3. | Value of Yarn Purchased (Rs. in crores) | 6.27 | 5.37 |
| 4. | Value of Yarn distributed (Rs. in crores) | 6.72 | 5.61 |
| 5. | (a) Production (lakh metres) | 4.76 | 6.96 |
| | (b) Value (Rs. in lakhs) | 157.00 | 201.00 |
| 6. | No. of Exhibitions conducted | 26 | 29 |
| 7. | No. of primary societies registered as members (cumulative) | 428 | 435 |
| 8. | Paid up share capital (Rs lakhs) | 783.66 | 924 |

Source : Kerala State Handloom Weavers Apex Co-operative Society (HANTEK), Thiruvananthapuram.

Working Results of Kerala State Handloom Development Corporation Ltd. (Harveev)

| Sl.No | Particulars | 1995 - 96 | 1998 - 97 |
|-------|------------------------------------------------------------------|-----------|-----------|
| | | 3 | 4 |
| 1. | Paid up Capital (as at the end of the year) | 499.70 | 637.20 |
| 2. | Total Borrowings (as at the end of the year) | 682.90 | 831.43 |
| 3. | Gross Block (as at the end of the year) | 218.00 | 236.50 |
| 4. | Value of production through clusters (as at the end of the year) | 430.00 | 416.51 |
| 5. | Income through sale of products (as at the end of the year) | 958.68 | 1137.15 |
| 6. | Other income :- | | |
| | (a) Export of Handloom cloth through KSHDC | 8.66 | - |
| | (b) Grants, MDA, Interest, Processing charges etc. | 204.24 | 152.61 |
| 7. | Expenditure of raw materials | 231.00 | 238.50 |
| | Yarn | 12.00 | 16.30 |
| | Fabrics | 290.34 | 254.57 |
| 8. | Expenditure on personal payments | 148.93 | 179.62 |
| 9. | Provision for Depreciation | 6.00 | 10.00 |
| 10. | Expenditure towards interest and Bank Charges. | 132.25 | 143.08 |
| 11. | Other Expenses :- | | |
| | (a) Trading Expenses | 45.05 | 60.50 |
| | (b) Hank yarn subsidy | 25.00 | - |
| | (c) Administration and Selling Expenses | 98.66 | 105.73 |
| 12. | Stock differential | 302.33 | 195.45 |
| 13. | Net profit (+) Net loss (-) | -6.32 | -50.27 |
| 14. | Accumulated loss at the end of the year. | 521.00 | 571.27 |

Production and Productivity Under Powerloom Industry

| Sl.No | Item | 1995 - 96 | 1996 - 97 |
|-------|---------------------------------------------------------|-----------|-----------|
| 1 | 2 | 3 | 4 |
| 1. | Total number of powerlooms in the state | 2394 | 2394 |
| 2. | Number of looms in the co-operative sector. | 962 | 962 |
| 3. | Percentage of 2 to 1 | 40.18 | 40.18 |
| 4. | Number of powerloom Co-operative societies in the state | 38 | 38 |
| 5. | Number of Members in the Co-operative sector | 1227 | 1227 |
| 6. | Number of Women employed in the powerloom sector. | - | 318 |
| 7. | Co-operative Sector :- | | |
| | i) Production of cloth (lakh metres) | 118.18 | 121.03 |
| | ii) Value of production (Rs. lakhs) | 2648.82 | 2965.24 |
| | iii) Productivity (Meter/loom) | 12284.82 | 12587.12 |
| 8. | Unorganised / Private sector | NIL | NIL |
| 9. | Total (Co-operative and Unorganised/ Private sectors) | 118.18 | 121.03 |
| | i) Production of cloth (lakh metres) | 2648.82 | 2965.24 |
| | ii) Value of production (Rs. lakhs) | 12284.82 | 12587.12 |
| | iii) Productivity(M/L) | | |

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Source : Directorate of Handlooms and Textiles, Thiruvananthapuram

Appendix - 6.28

Export of Coir and Coir products from India during 1995-96 & 1996-97

| Sl.No | Item | 1995 - 96 | | | 1996 - 97 | | |
|---------|---------------------|-----------|-------------------|-------|-------------------|-----|-------------------|
| | | Qty | Value (Rs. lakhs) | Qty | Value (Rs. lakhs) | Qty | Value (Rs. lakhs) |
| 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1. | Coir Fibre | 303 | 27.09 | 337 | 49.59 | | |
| 2. | Coir Yarn | 14838 | 3434.48 | 13645 | 3263.18 | | |
| 3. | Coir Mats | 20353 | 10131.77 | 21091 | 11396.68 | | |
| 4. | Coir Mattings | 7590 | 4621.29 | 6578 | 4126.05 | | |
| 5. | Coir rugs & Carpets | 2817 | 1867.91 | 2306 | 1705.15 | | |
| 6. | Coir rope | 121 | 26.27 | 78 | 21.68 | | |
| 7. | Coir (other sorts) | 353 | 176.36 | 578 | 256.52 | | |
| 8. | Rubberised Coir | 175 | 113.40 | 212 | 152.32 | | |
| 9. | Curled coir | 1156 | 112.89 | 715 | 85.94 | | |
| 10. | Other Items | 583 | 173.20 | - | - | | |
| Total : | | 48289 | 20684.66 | 45540 | 21057.11 | | |

Source : Directorate of Coir Development, Thiruvananthapuram.

Coir Co-operative Societies in Kerala

| Sl.No | Type of Society as on 31.3.1997 | 1995 - 96 |
|-------|-----------------------------------------------------|-----------|
| 1 | 2 | 3 |
| 1. | Primary Coir Co-operative Societies | |
| | (a) Working (Started production) | 412 |
| | (b) New Societies which have not started working | - |
| | (c) Dormant societies | 134 |
| | Total | 545 |
| 2. | Manufacturing Societies | |
| | (a) Working (Started Production) | 21 |
| | (b) New Societies which have not started | 1 |
| | (c) Dormant societies | 28 |
| | Total | 50 |
| 3. | Small Scale Producers Co-operative Societies | |
| | (a) Working (Started production) | 8 |
| | (b) New Societies which have not started working | - |
| | (c) Dormant Societies | 1 |
| | Total | 9 |
| 4. | Husk Procurement and Distribution Societies | |
| | (a) Working | 2 |
| | (b) New societies which have not started working | - |
| | (c) Dormant societies | 2 |
| | Total | 4 |
| 5. | Firbe Societies (Defibering Mill Societies) | |
| | (a) Working (Started production) | 2 |
| | (b) New Societies which have not started production | 88 |
| | (c) Dormant societies | - |
| | Total | 70 |
| 6. | Co-operative Coir Marketing Federation - 1 | |
| 7. | Total number of coir Co-operative societies. | 445+ |
| | (a) No.of societies which have production | 69 |
| | (b) New Societies which have not started production | 165 |
| | (c) Dormant societies | 878 |
| | Total | 191 |
| | (d) Societies under liquidation | 870 |
| | GrandTotal | |

Source : Directorate of Coir Development, Thiruvananthapuram.

Activities of Coir Co-operative Societies

a. Primary Coir Co-operative Societies

| Year | No. of Societies which have production | No. of members (1000) | Husk purchased | | Fibre produced | | Yarn produced | | No. of members to whom work was given (1000) | Wages paid (Rs in lakhs) |
|---------|----------------------------------------|-----------------------|-------------------|------------------|----------------|---------------------|---------------|----------------------|----------------------------------------------|--------------------------|
| | | | Number (in lakhs) | Value (in lakhs) | Qty (Tonnes) | Value (Rs in lakhs) | Qty (Tonnes) | Value (Rs. in lakhs) | | |
| 1994-95 | 440 | 257 | 885.60 | 401.11 | 2116.06 | 177.21 | 85121 | 1287.82 | 62 | 622.62 |
| 1995-96 | 449 | 252 | 885.02 | 427.50 | 2125.59 | 191.30 | 94180 | 1299.00 | 60 | 764.47 |
| 1996-97 | 412 | 228 | 785.00 | 392.50 | 1962.00 | 157.30 | 11203 | 2016.00 | 72 | 1044.00 |

b. Manufacturing Societies

| Year | No. of Working societies | No. of Members (1000) | Value of Production (Rs. lakhs) | No. of Workers to whom work was given (1000) | Wages paid (Rs. lakhs) | Value of exports (Rs. in crores) |
|---------|--------------------------|-----------------------|---------------------------------|----------------------------------------------|------------------------|----------------------------------|
| | | | | | | |
| 1995-96 | 28 | 4.94 | 1555.30 | 2.35 | 198.41 | 205.11 |
| 1996-97 | 29 | 5.23 | 1652.00 | 3.71 | 193.00 | 210.57 |

Source : Directorate of Coir Development, Thiruvananthapuram.

Appendix - 6.31

Import of Raw Cashewnuts into India

| Year | Quantity (M.T) | Index 1990-91=100 | | Value Rs. crores | Index 1990-91=100 |
|---------|-------------------|----------------------|--------|---------------------|----------------------|
| | | 3 | 4 | | |
| 1990-91 | 82639 | 100.00 | 134.00 | 100.00 | |
| 1991-92 | 106080 | 128.37 | 266.68 | 199.01 | |
| 1992-93 | 134985 | 163.34 | 376.33 | 280.84 | |
| 1993-94 | 191322 | 231.52 | 482.70 | 360.22 | |
| 1994-95 | 228109 | 276.03 | 690.94 | 515.63 | |
| 1995-96 | 222819 | 269.63 | 760.08 | 567.22 | |
| 1996-97 | 192285 | 232.68 | 640.58 | 478.04 | |

Source: Cashew Export Promotion Council, Kochi

Appendix - 6.32

Foreign Exchange Earnings of India from Cashew Industry

| Year | Export of Cashew Kernels (Rs. Crores) | Cashewnut Shell Liquid (Export Value) (Rs. Crores) | Import Value of Cashewnut (Rs. Crores) | | | Net Foreign Exchange earned |
|---------|------------------------------------------|----------------------------------------------------------|----------------------------------------------|--------|--------|--------------------------------|
| | | | Total | 5 | 6 | |
| 1990-91 | 442024 | 5.55 | 447.79 | 134 | 313.79 | |
| 1991-92 | 689.09 | 4.02 | 673.11 | 266.68 | 406.43 | |
| 1992-93 | 745.49 | 3.81 | 749.30 | 376.33 | 372.97 | |
| 1993-94 | 1046.02 | 2.90 | 1048.91 | 482.70 | 566.21 | |
| 1994-95 | 1246.28 | 2.44 | 1248.72 | 690.94 | 557.78 | |
| 1995-96 | 1240.60 | 1.45 | 1241.95 | 760.08 | 481.87 | |
| 1996-97 | 1281.04 | 1.99 | 1283.03 | 840.58 | 642.45 | |

Source: Cashew Export Promotion Council, Kochi

Working Results of the Cashew Workers Apex Co-operative Society (CAPEX)

| Sl.No | Particulars | 1995 - 96 | 1996 - 97 |
|-------|--------------------------------------------------------------------------------|-----------|-----------|
| 1 | 2 | 3 | 4 |
| A) | Authorised Share Capital (Rs. lakhs) | 500.00 | 600.00 |
| 1. | Share Capital (Total)-paid up share Capital | 112.53 | 312.53 |
| | i) Contribution of Primary Societies | - | - |
| | ii) Contribution from Government | 11.48 | 11.48 |
| | (a) Share | 645.34 | 164.33 |
| | (b) Loan | 10. Nos | 10. Nos |
| 2. | Number of Primary Societies Registered as members of CAPEX | 5909. Nos | 6000. Nos |
| 3. | (a) Total Number of Cashew Workers in the Primary Societies Registered | - | - |
| | (b) Number of members of Primary Societies (if any) who are not cashew Workers | - | - |
| 4. | Number of Primary Societies earning Profits | - | - |
| 5. | Rawnuts procured | 6257.871 | 1888.745 |
| | i) Quantity (Tonnes) | 2082.98 | 6656.58 |
| | ii) Value (Rs. lakhs) | | |
| 6. | Products purchased from Primary Societies | | |
| | i) Cashew Kernels | | |
| | (a) Quantity (Tonnes) | | |
| | (b) Value (Rs. in lakhs) | | |
| | ii) Other items (Specify Name, Quantity and Value) | | |
| 7. | Sales Turnover | | |
| | (a) Inside the Country | | |
| | i) Cashew Kernels | | |
| | (a) Quantity (Tonnes) | 71.65 | 18.40 |
| | (b) Value (Rs. in lakhs) | | |

No purchase from the Primaries. Rawnuts are given to the Primaries for processing and the products are received back meeting the complete expenses of Processing

| 1 | 2 | 3 | 4 |
|-------------------------------------------------------|---------|---------|---|
| (b) Exports | | | |
| i) Cashew Kernals | | | |
| (a) Quantity (Tonnes) | 98780 | 17160 | |
| (b) Value (Rs. lakhs) | 2648.54 | 6526.85 | |
| ii) Other items (specify and give details) | | | |
| Total (b) | | | |
| Quantity (Tonnes) | - | - | |
| Value (Rs. lakhs) | - | - | |
| Total Sales (A+B) | | | |
| Quantity (Tonnes) | 98780 | 17160 | |
| Value (Rs. lakhs) | 2720.19 | 6545.25 | |
| 8. Net Profit/ Loss (Rs. lakhs) | 1548.44 | 1947.84 | |
| 9. Number of Persons employed in the CAPEX | 303 | 289 | |
| 10. (a) Number of Primary Societies which are defunct | - | - | |
| (b) Number of Workers affected | Na | Na | |

Source : Kerala State Cashew Workers Apex Co-operative Society (CAPEX), Kollem.

Khadi & Village Industries : Production, Sales, Employment and Wages paid during 1995-96 and 1996-97

| Sl. No. | Name of Industry | Production Value(Rs. lakhs) | | Sales value(Rs. lakhs) | | Employment | | | Wages | | | | |
|---------|---------------------|------------------------------|----------|-------------------------|----------|------------|-------|--------|--------|-------|--------|---------|---------|
| | | 95-96 | 96-97 | 95-96 | 96-97 | 95-96 | | 95-96 | | 96-97 | | | |
| | | FT | P.T | FT | P.T | Total | FT | P.T | Total | FT | P.T | | |
| 1. | Khadi | 350.73 | 398.53 | 894.41 | 991.96 | 8578 | - | 8578 | 8087 | - | 8087 | 262.47 | 269.89 |
| II. | VILLAGE INDUSTRIES | | | | | | | | | | | | |
| 1. | Cottage Match | 1073.70 | 1079.81 | 1192.73 | 1283.03 | 3627 | 4251 | 7878 | 3707 | 4320 | 8027 | 251.66 | 258.43 |
| 2. | Agarbathy | 207.77 | 213.08 | 212.03 | 219.66 | 1001 | 298 | 1299 | 1017 | 314 | 1331 | 29.56 | 40.50 |
| 3. | Village Leather | 1057.03 | 1067.60 | 1183.73 | 1207.32 | 2332 | 1350 | 3682 | 2394 | 1423 | 3817 | 208.69 | 213.89 |
| 4. | Fibre and Screwpine | 702.43 | 738.79 | 834.89 | 813.37 | 60826 | 9732 | 70558 | 61151 | 11167 | 72318 | 592.24 | 848.16 |
| 5. | Rubber based | 687.52 | 691.94 | 705.37 | 736.75 | 956 | 562 | 1518 | 979 | 596 | 1575 | 44.02 | 47.74 |
| 6. | H.M.P | 132.60 | 155.00 | 148.22 | 169.80 | 926 | - | 926 | 888 | 180 | 1088 | 36.60 | 42.95 |
| 7. | Village Pottery | 1118.13 | 1125.24 | 1149.15 | 1171.47 | 18171 | 4771 | 22942 | 18254 | 4790 | 23044 | 534.78 | 537.93 |
| 8. | Gurkhandasari | 251.75 | 252.90 | 269.73 | 270.80 | 1126 | 402 | 1528 | 1164 | 380 | 1544 | 60.21 | 60.84 |
| 9. | Service | - | - | 147.37 | 151.79 | 544 | - | 544 | 565 | - | 565 | 78.87 | 85.59 |
| 10. | Village Oil | 1577.58 | 1609.13 | 1744.73 | 1779.63 | 810 | 965 | 1775 | 815 | 970 | 1785 | 50.75 | 52.27 |
| 11. | N.E.O.S | 462.27 | 518.80 | 482.06 | 573.90 | 401 | 604 | 1005 | 405 | 629 | 1034 | 27.28 | 29.43 |
| 12. | Textile | 564.76 | 798.64 | 557.70 | 791.16 | 3689 | 237 | 3926 | 4352 | 463 | 4815 | 168.34 | 178.06 |
| 13. | Palmgur | 219.94 | 221.02 | 283.13 | 286.66 | 1025 | 12321 | 13346 | 1018 | 12908 | 13926 | 33.48 | 34.90 |
| 14. | Bee-keeping | 98.67 | 111.14 | 133.61 | 146.60 | 1961 | 15674 | 17635 | 1980 | 15810 | 17790 | 47.32 | 52.50 |
| 15. | P.C.P | 624.94 | 644.40 | 698.75 | 726.52 | 5869 | 7629 | 13498 | 6012 | 7967 | 14039 | 235.84 | 251.47 |
| 16. | F.V.P | 421.49 | 434.30 | 476.95 | 495.45 | 1389 | 1867 | 3256 | 1348 | 2004 | 3352 | 102.33 | 108.94 |
| 17. | Ayurvedic Medicines | 35.29 | 38.37 | 40.29 | 45.02 | 120 | 576 | 696 | 125 | 587 | 712 | 11.59 | 12.17 |
| 18. | Lime | 1211.67 | 1332.91 | 1371.64 | 1530.25 | 5098 | 3293 | 8391 | 5153 | 3341 | 8494 | 438.63 | 465.60 |
| 19. | Cane & Bamboo | 323.35 | 329.82 | 334.84 | 341.53 | 1458 | 3841 | 5299 | 1488 | 3918 | 5406 | 168.91 | 179.24 |
| 20. | B&C | 1216.49 | 1240.81 | 1476.22 | 1505.73 | 6945 | 1405 | 8350 | 7014 | 1419 | 8433 | 377.06 | 384.59 |
| 21. | Aluminium | 378.82 | 428.13 | 414.34 | 447.58 | 720 | 284 | 1004 | 735 | 292 | 1027 | 110.31 | 113.44 |
| 22. | Metal | 2.90 | 3.93 | 3.09 | 4.56 | 3 | 3 | 9 | 3 | 7 | 10 | 0.30 | 0.34 |
| 23. | Electronics | 89.25 | 17.30 | 66.15 | 38.65 | 546 | - | 546 | 410 | - | 410 | 5.83 | 1.80 |
| 24. | Polyvastra | 48.48 | 55.62 | 91.87 | 73.11 | 612 | - | 612 | 888 | - | 888 | 30.58 | 29.25 |
| | Total II | 12504.83 | 13108.68 | 14018.59 | 14810.34 | 120155 | 70068 | 190223 | 121925 | 73485 | 195410 | 3653.18 | 4443.07 |
| | Total I + II | 12855.56 | 13507.21 | 14913.00 | 15802.30 | 128733 | 70068 | 198801 | 130012 | 73485 | 203497 | 3915.65 | 4712.96 |

Source : Khadi & Village Industries Board, Thiruvananthapuram.

Progress of sericulture Development Programme of the state

| Sl.No | Item | 1996- 97 | 1997 - 98 | Remarks |
|-------|----------------------------------------------------|----------|-----------|--------------------------------------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| 1. | Mulberry Cultivation (in acres) | 1476 | 2776 | (Progressive Total) |
| 2. | Number of Farmers | 2038 | 4225 | (Progressive Total) |
| 3. | Number of Rearing Units | 987 | - | New farmers of 97-98 are yet to start rearing. |
| 4. | Production of Cocoon (MT) | 16.172 | 15.588 | |
| 5. | Silkworm seed production Centres (Nos) | | | |
| | a) State Sector | Nil | Nil | |
| | b) Private Sector | Nil | Nil | |
| | c) Co-operative sector | Nil | Nil | |
| | d) Central Sector | 1 | 1 | |
| | Total (5) | 1 | 1 | |
| 6. | Cocoon Purchase Centre | | | |
| | e) State Sector | 14 | 14 | All Dist. offices are functioning as cocoon purchase centre. |
| | b) Co-operative Sector | Nil | Nil | |
| | c) Private Sector | Nil | Nil | |
| | Total (6) | 14 | 14 | |
| 7. | Silk Reeling Units | | | |
| | (a) State Sector | 2 | 2 | |
| | (b) Co-operative Sector | - | - | • Working on jobwork basis for SERIFED |
| | (c) Private Sector* | 31 | 2 | |
| | Total (7) | 33 | 4 | |
| 8. | Demonstration Cum Training Centre | | | |
| | (a) State sector | - | - | |
| | (b) Central sector | 1 | 1 | |
| | Total (8) | 1 | 1 | |
| 9. | Production of Raw silkworm | 1.5 MT | .876 | |
| 10. | Sericulture Co-operative Societies newly organised | 3 | 92 | affiliated to SERIFED |

Source : Karala State Sericultura Co-operative Federation Ltd., Thiruvananthapuram.

Kerala State Industrial Development Corporation Physical and Financial Performance - 1993-94 to 1996 - 97

| Sl.No | Particulars | 1993-94 | 1994-95 | 1995-96 | 1996-97 |
|-------|--------------------------------------------------------|---------|---------|---------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Projects Completed | | | | |
| | e) Number of Projects | 42 | 29 | 33 | 49 |
| | b) Aggregate cost (Rs.in crores) | 132.47 | 133 | 115.66 | 184.34 |
| 2. | Projects taken up for implementation | | | | |
| | e) Number of Projects | 46 | 45 | 112 | 112 |
| | b) Aggregate costs (Rs. in Crores) | 147.99 | 182 | 707 | 940 |
| | c) Employment potential (Nos) | 2870 | 2252 | 7730 | 8003 |
| 3. | Project cleared by KSIDC | | | | |
| | e) Number of Projects | 47 | 51 | 68 | 55 |
| | b) Aggregate Cost (Rs.in Crores) | 253.62 | 255.00 | 427.51 | 586.08 |
| | (c) Employment potential (Nos) | 2946 | 4587 | 5586 | 4381 |
| 4. | Memoranda of Understanding signed with Private parties | | | | |
| | a) Number of projects | 27 | 24 | 71 | 54 |
| | b) Estimated Aggregate cost (Rs. in crores) | 533 | 166 | 2007 | 5437 |
| 5. | Financial assistance sanctioned and disbursed | | | | |
| | a) Gross sanction (Rs. in crores) | 48.73 | 51.89 | 77.65 | 94.70 |
| | b) Disbursement (Rs. in crores) | 29.85 | 32.79 | 43.38 | 63.82 |
| | Net Profit (Rs.in crores) | 2.11 | 11.63 | 6.31 | 9.23 |

Source : Kerala State Industrial Development Corporation Ltd., Thiruvananthapuram

Summary of loan operations of Kerala Financial Corporation as on 31.3.1997

(Rs. in lakhs)

| SL. No. | During the year 1996-97 | | | | | | Since inception upto 31.3.1997 | | | | | |
|---------|-------------------------|----------|--------|----------|-------|----------|--------------------------------|-----------|--------|----------|-------|-----------|
| | SSI | | Others | | Total | | SSI | | Others | | Total | |
| | No. | Amount | No. | Amount | No. | Amount | No. | Amount | No. | Amount | No. | Amount |
| 1. | 92 | 673.35 | 64 | 262.13 | 156 | 935.48 | - | - | - | - | - | - |
| 2. | 1166 | 12119.93 | 2144 | 12747.07 | 3310 | 24867.00 | 23167 | 104899.18 | 11001 | 55253.98 | 34168 | 160153.16 |
| 3. | 1258 | 12793.28 | 2208 | 13009.20 | 3466 | 25802.48 | 23377 | 106960.60 | 11084 | 55765.95 | 34461 | 162726.01 |
| 4. | 102 | 1813.54 | 108 | 614.80 | 210 | 2428.34 | 3872 | 14618.51 | 948 | 5911.12 | 4820 | 20529.63 |
| 5. | 1056 | 8881.70 | 2009 | 12668.30 | 3065 | 21550.00 | 18546 | 77294.58 | 10469 | 52177.37 | 29015 | 129471.95 |
| 6. | 62 | 1087.38 | 56 | 625.95 | 118 | 1713.33 | - | - | - | - | - | - |
| 7. | 23 | 512.34 | 21 | 149.37 | 44 | 661.71 | - | - | - | - | - | - |
| 8. | 85 | 1599.72 | 77 | 775.32 | 162 | 2375.04 | 2791 | 10868.63 | 1054 | 3948.39 | 3845 | 14617.02 |
| 9. | 994 | 7794.32 | 1953 | 12042.35 | 2947 | 19836.87 | - | - | - | - | - | - |
| 10. | 971 | 7281.98 | 1932 | 11892.98 | 2903 | 19174.96 | 15755 | 66625.95 | 9415 | 48228.98 | 25170 | 114854.93 |
| | 933 | 9112.27 | 1785 | 9748.73 | 2718 | 18861.00 | 15645 | 55731.78 | 8652 | 36874.54 | 24297 | 92606.32 |
| | 97 | 922.60 | 91 | 902.87 | 188 | 1825.47 | - | - | - | - | - | - |

Source : Kerala Financial Corporation., Thiruvananthapuram

District - wise Details of Disbursement of loan by KFC 1996 - 97

| Sl. No. | District | SSI | | Others | | Total | |
|-------------------------------|--------------------|------------|----------------|-------------|----------------|-------------|-----------------|
| | | No. | Amount | No. | Amount | No. | Amount |
| Backward Districts | | | | | | | |
| CATEGORY - A | | | | | | | |
| Idukki :- | | | | | | | |
| | Kattappana | 60 | 382.90 | 173 | 776.50 | 233 | 1159.40 |
| | Thodupuzha | | | | | | |
| | Wayanad | 16 | 65.14 | 71 | 336.96 | 87 | 402.10 |
| CATEGORY - B | | | | | | | |
| | Alappuzha | 68 | 463.39 | 69 | 225.79 | 137 | 689.18 |
| | Malappuram | 39 | 456.67 | 56 | 402.07 | 95 | 858.74 |
| | Kannur | 48 | 434.95 | 66 | 379.33 | 114 | 814.28 |
| | Kasaragod | 35 | 281.72 | 70 | 376.89 | 105 | 658.61 |
| CATEGORY - C | | | | | | | |
| | Trivandrum | 67 | 910.00 | 257 | 1234.14 | 324 | 2144.14 |
| | Thrissur | 95 | 1011.35 | 71 | 627.06 | 166 | 1638.41 |
| | Total | 428 | 4006.12 | 833 | 4358.74 | 1261 | 8364.86 |
| Non Backward Districts | | | | | | | |
| | Pathanamthitta | 70 | 404.46 | 121 | 656.05 | 191 | 1060.51 |
| | Kollam | 130 | 658.57 | 177 | 922.81 | 307 | 1581.38 |
| | Ernakulam | 93 | 2031.16 | 186 | 1683.90 | 279 | 3715.06 |
| | Palakkad | 46 | 811.03 | 172 | 744.70 | 218 | 1555.73 |
| | Kozhikode | 71 | 380.85 | 241 | 1133.2 | 312 | 1514.27 |
| | Kottayam | 95 | 820.08 | 55 | 249.11 | 150 | 1069.19 |
| | Total | 505 | 5106.15 | 952 | 5389.99 | 1457 | 10496.14 |
| | Grand Total | 93 | 9112.27 | 1785 | 9748.73 | 2718 | 18861.00 |

Source : Kerala Financial Corporation., Thiruvananthapuram

Industry - wise classification of loan sanctioned and disbursed by the Kerala Financial Corporation as on 31.3.1997

| Type of Industry | Amount Sanctioned | % of total loans Sanctioned | Amount disbursed | % of total loan disbursed |
|--------------------------------|-------------------|-----------------------------|------------------|---------------------------|
| Mining | 2074.00 | 1.71 | 639.56 | 0.69 |
| Crude Petroleum | 251.19 | 0.20 | 107.73 | 0.12 |
| Petroleum Refining | 13.37 | 0.01 | 11.31 | 0.01 |
| Sugar | 0.00 | 0.00 | 0.00 | 0.00 |
| Other food Products | 9203.80 | 7.59 | 6854.92 | 7.40 |
| Textiles | 3297.32 | 2.72 | 2437.22 | 2.63 |
| Paper & Paper Products | 2180.08 | 1.80 | 1840.27 | 1.99 |
| Leather and leather products | 271.28 | 0.22 | 217.30 | 0.23 |
| Rubber products | 10533.32 | 8.69 | 8336.01 | 9.00 |
| Chemical and Chemical Products | 3746.31 | 3.09 | 2821.25 | 3.05 |
| Fertilisers | 0.00 | 0.00 | 0.00 | 0.00 |
| Cement | 110.20 | 0.09 | 84.07 | 0.09 |
| Basic Metals | | | | |
| a) Iron & Steel | 1365.00 | 1.13 | 1033.36 | 1.12 |
| b) Non - ferrous | 773.11 | 0.64 | 603.58 | 0.65 |
| Metals products | 5149.96 | 4.26 | 2902.73 | 3.14 |
| Capitel Goods | | | | |
| a) Non-electrical Machinery | 808.13 | 0.67 | 620.97 | 0.67 |
| b) Electrical machinery | 1458.43 | 1.20 | 1373.36 | 1.48 |
| c) Electronic machinery | 0.00 | 0.00 | 0.00 | 0.00 |
| d) Trensport equipment | 955.06 | 0.79 | 785.96 | 0.85 |
| Electricity Generation | 37.82 | 0.03 | 30.40 | 0.03 |
| Services | | | | |
| a) Hotels and Shopping Complex | 11995.04 | 9.90 | 8176.89 | 8.83 |
| b) Hospital | 2733.37 | 2.28 | 2142.60 | 2.31 |
| c) Others | 21018.70 | 17.34 | 19395.89 | 20.95 |
| Others | 43246.75 | 35.87 | 32190.94 | 34.76 |
| Total | 121221.24 | 100.00 | 92606.32 | 100.00 |

Source : Kerala Financial Corporation., Thiruvananthapuram

Appendix -6.40

Progress of the working of Kerala Financial Corporation at a glance

(Rs. in Lakh)

| Year | Loans Sanctioned Cumulative | Loans disbursed Cumulative | Loans Out standing | Profit before Taxation | Profit after Taxation |
|---------|-----------------------------|----------------------------|--------------------|------------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1991-92 | 55037 | 38879 | 31823 | 89.94 | - |
| 1992-93 | 64348 | 45389 | 36470 | 141.14 | 54.22 |
| 1993-94 | 72758 | 52231 | 39773 | 141.56 | 56.34 |
| 1994-95 | 84193 | 59770 | 44813 | 188.29 | 57.91 |
| 1995-96 | 107922 | 73745 | 51084 | 978.51 | 693.85 |
| 1996-97 | 129472 | 92606 | 61549 | 1453.29 | 210.90 |

Source : Kerala Financial Corporation., Thiruvananthapuram

List of Companies in Techno Park (as on 31.1.1998) and their activities

| Sl.No | Name of Company | Brief Description | No. of Modules |
|-------------------------------|-----------------------------------|-----------------------------------------------|----------------|
| 1 | 2 | 3 | 4 |
| Companies in operation | | | |
| 1. | Nest (USNRIs) | Software Development | 4 |
| 2. | Toroid India | Toroidal Transformers | EOU |
| 3. | Tata Consultancy | Software Training | EOU |
| 4. | Case Consult (German + USNRI) | Software Development | EOU |
| 5. | Data Entry International | Date Capture (UK + Indian) | EOU |
| 6. | Brahma Softek | Date Capture | EOU |
| 7. | Dataware Designs (USNRI) | Software Development | EOU |
| 8. | Transmatic & HIS | Software Development | EOU |
| 9. | Megalux | Energy Saving Devices | 3 |
| 10. | IVL India (Garman) | Software Development | EOU |
| 11. | ADA Software & Services | Software Development | EOU |
| 12. | Sea View (US + Indian) | Software Development | EOU |
| 13. | SDS Infotak | Transcription | EOU |
| 14. | Srishti (Garman NRI) | Software Development | EOU |
| 15. | Visionics Indie (Sweden + Indian) | Network Management | EOU |
| 16. | BPL Indie | Software Development | EOU |
| 17. | GADCO | Radio Pging | 1 |
| 18. | IBS (Gulf-based NRI) | Software Development | EOU |
| 19. | Amstor Corporation | Software for Swiss Air Electronic Products | EOU own Bldg. |
| Under Implementation | | | |
| 20. | CMS Computers | Electronics R & D | |
| 21. | BPL Mobila Telecom Servicee | | |
| 22. | Peninsula Polymers Ltd. | | |
| 23. | Gemini Software solutions | Software Development | EOU 100% E |
| New Projects | | | |
| 24. | Fisher Intarnational | Soft ware Davelopment (USA) | EOU |
| 25. | Flintek | Loed Cells (Swedish Group) | EOU |
| 26. | Siraintek | Strain gauges (Swedish Group) | EOU |
| 27. | Software Technical Services | Soft ware Development (USA) | EOU |
| 28. | Pentafour | Software Development | |
| 29. | Gibbs | Software Development | EOU |

Sources : Technopark, Thiruvananthapuram.

Details of Technical Assistance offered by Small Industries Service Institute during 1996-97

| Sl.No | Assistance Provided | No.of Cases handled (1996-97) |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|
| 1. | Project Profiles Prepared and up dated | 43 |
| 2. | Sick units Revival Reports | 2 |
| 3. | Techno-Economic Feasibility Report for Bank Finance | 3 |
| 4. | Capacity Assessment Report | 3 |
| 5. | Inspection Reports under single point Registration Programme of NSIC | 12 |
| 6. | State level Acceptance committee Meeting convened by NSIC for supply of machinery on hire purchase | 5 |
| 7. | Industrial potential surveys conducted | 2 |
| 8. | Inplant Studies | 3 |
| 9. | Technical consultancy | 1040 |
| 10. | Product Development / Diversification | 16 |
| 11. | Training | 253 |
| 12. | Other Misc. consultancy assistance and through group programme | 1260 |
| <p>The Work done under the programme of ancillary development by SISI during the year 1996-97 include the following</p> | | |
| 1. | Vendor Development / Buyer Seller Meet | 1 |
| 2. | No.of units registered under SCX | 41 |
| 3. | Tender enquiries processed (Nos) | 24 |
| 4. | Plant level committee meetings attended | 4 |
| 5. | Visit to large and Medium Scale Industries for Ancillary work / meetings | 14 |

Source : Small Industries Service Institute, Thrissur.

Revenue Collection from Mining Sector : From 1990-91 to 1996-97

| Year | Minor Minerals | | Major Minerals | | Total |
|---------|----------------|-----|----------------|--|-------|
| | | | | | |
| 1990-91 | 29 | 79 | | | 108 |
| 1991-92 | 33 | 132 | | | 164 |
| 1992-93 | 109 | 322 | | | 431 |
| 1993-94 | 115 | 337 | | | 452 |
| 1994-95 | 148 | 386 | | | 534 |
| 1995-96 | 229 | 357 | | | 586 |
| 1996-97 | 272 | 288 | | | 560 |

(Rs. in Lakh)

Production and Sale of Major Minerals (Other than Mineral Sand)

(Rty in MT and Value in Lakhs)

| Name of Mineral | 1995-96 | | | | | 1996-97 | | | | | Value/ Tonne |
|-----------------|------------|-----------|-------------------|-----------|-----------------|------------|-----------|-------------------|-----------|-----------------|-----------------|
| | Production | | Sales/Consumption | | Value/ Tonne | Production | | Sales Consumption | | Value/ Tonne | |
| | Raw | Processed | Raw | Processed | | Raw | Processed | Raw | Processed | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| China Clay | 247211 | 112364 | 69413 | 70832 | 400 | 112690 | 69861 | 111679 | 69861 | 450 | |
| Lime Stone | 893769 | - | 402640 | - | 320 | 290451 | - | 323555 | - | 350 | |
| Silica Sand | 124827 | - | 54820 | 119522 | 200 | 170527 | 23362 | 157643 | - | 225 | |
| Lime Shell | 145775 | - | 145622 | - | 800 | 99758 | - | 97719 | - | 800 | |
| Mangeseite | - | - | - | - | - | - | - | - | - | - | |
| Quartz | 4982 | - | 4982 | 460 | 450 | 2268 | - | 2268 | - | 450 | |
| Graphite | 500 | - | 500 | - | 450 | - | - | - | - | 450 | |
| Bauxite | - | - | - | - | 250 | 5850 | 5850 | 5850 | - | 250 | |

Source : Directorate of Mining and Geology., Thiruvananthapuram

Appendix - 6.45
Production and Sale of Mineral Sand in Kerala

| Name of Mineral | 1995-96 | | 1996-97 | |
|-----------------|---------------------|------------------------------------|---------------------|----------------------------|
| | Production (Tonnes) | Sales/Consumption Quality (Tonnes) | Production (Tonnes) | Sales Consumption (Tonnes) |
| Ilmenite | 125152 | 206233 | 73006 | 83355 |
| Rutile | 7304 | 7122 | 4638 | 4234 |
| Zircon | 13539 | 5010 | 7900 | 8637 |
| Sillimanite | 6745 | 6162 | 5625 | 5175 |
| Leucoxene | 207 | 44 | 340 | - |
| Sillimanite | 6745 [†] | 6162 | 5625 | 5175 |
| Leucoxene | 207 | 44 | 340 | - |

Source : Directorate of Mining and Geology, Thiruvananthapuram

Appendix - 7.1

Growth of Transport & Communications in Kerala since 1975

| Sl No. | Item | Unit | 1975 | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------|-------------------------------------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1. | Road Length (PWD) | Unit | 14870 | 17408 | 19107 | 19836 | 20283 | 20414 | 20663 | 21651 | 22114 | 22863 | 22273 |
| 2. | Road Length (PWD) per sq.km | Kms. | 0.38 | 0.45 | 0.49 | 0.51 | 0.52 | 0.53 | 0.53 | 0.56 | 0.57 | 0.59 | 0.57 |
| 3. | Road Length (Panchayats) | " | 54812 | 66158 | 81515 | 96951 | 99022 | 101067 | 103888 | 108277 | 106920 | 106920 | 109058* |
| 4. | Motor Vehicles | Nos. | 119720 | 174704 | 319259 | 561054 | 647742 | 708172 | 781398 | 887672 | 1005922 | 1170241 | 1328619 |
| 5. | Motor Vehicles per 100 sq.km | " | 308 | 450 | 821 | 1495 | 1667 | 1822 | 2011 | 2276 | 2588 | 3011 | 3419 |
| 6. | Buses & Storage Carriages | " | 7828 | 8705 | 12910 | 20290 | 21454 | 22833 | 25345 | 30370 | 34862 | 38177 | 48044 |
| 7. | Goods Vehicles | " | 15875 | 21121 | 40879 | 61106 | 66190 | 71089 | 77336 | 88455 | 100252 | 111762 | 131586 |
| 8. | Buses owned by KSRTC | " | 2212 | 2935 | 3239 | 3313 | 3413 | 3534 | 3456 | 3511 | 3005 | 3505 | 3750 |
| 9. | Railway Route length | Kms. | 896 | 916 | 914 | 998 | 998 | 1055 | 1198 | 1198 | 1198 | 1198 | 1198 |
| 10. | Post Offices | Nos. | 4024 | 4512 | 4751 | 4861 | 4911 | 4978 | 5009 | 5040 | 5040 | 5041 | 5046 |
| 11. | Telephone Exchanges | " | 288 | 441 | 561 | 636 | 649 | 875 | 688 | 715 | 727 | 765 | 793 |
| 12. | Total Equipped Capacity of Telephone Connection | " | 70410 | 104595 | 144462 | 246190 | 281607 | 344536 | 428212 | 524006 | 645283 | 812371 | 1062198 |
| 13. | Public Call Offices | " | 2352 | 2292 | 2768 | 3794 | 4958 | 6248 | 8229 | 10603 | 11824 | 14721 | 17852 |

Source : Departments Concerned

* Provisional.

Appendix : 7.2

Length of roads maintained by different departments/agencies

| Sl.No. | Department/Agency | Road Length (Kms) | | | |
|--------|--------------------------------|-------------------|--------|--|--|
| | | 1996 | 1997 | | |
| 1 | 2 | 3 | 4 | | |
| 1. | P.W.D. -NH | 1011 | 1011 | | |
| 2. | P.W.D - R& B | 22863 | 22273 | | |
| 3. | Pancheyats | 106920 | 109058 | | |
| 4. | Municipalities and Corporation | 8386 | 8627 | | |
| 5. | Forests | 3342 | 3360 | | |
| 6. | Others | 2114 | 2162 | | |
| Total | | 144636 | 145218 | | |

Appendix - 7.3

District-wise and Category-wise Length of Roads Maintained by PWD (R&B) as on 1-4-1997

| Sl. No. | Name of District | State Highways | Major District Roads | Other District Roads | Village Roads | Total | (in Kms) |
|--------------|--------------------|-----------------|----------------------|----------------------|-----------------|------------------|--------------|
| | | | | | | | |
| 1. | Thiruvananthapuram | 147.160 | 258.466 | 1331.951 | 99.623 | 1837.200 | (8.25) |
| 2. | Kollam | 214.556 | 409.732 | 1029.743 | 80.817 | 1734.848 | (7.79) |
| 3. | Pathanamthitta | 197.174 | 441.570 | 671.997 | 61.370 | 1372.111 | (6.16) |
| 4. | Alappuzha | 133.267 | 364.207 | 472.201 | 165.612 | 1125.287 | (5.05) |
| 5. | Kottayam | 403.842 | 632.372 | 1027.411 | 48.058 | 2111.683 | (9.48) |
| 6. | Idukki | 897.236 | 187.293 | 267.563 | 342.223 | 1694.315 | (7.61) |
| 7. | Ernakulam | 183.078 | 800.581 | 1035.283 | 69.220 | 2088.162 | (9.37) |
| 8. | Thrissur | 310.885 | 448.275 | 743.700 | 64.214 | 1567.074 | (7.04) |
| 9. | Palakkad | 409.289 | 551.132 | 678.440 | 43.990 | 1692.851 | (7.56) |
| 10. | Malappuram | 259.729 | 312.615 | 1032.788 | 345.474 | 1950.606 | (8.76) |
| 11. | Kozhikode | 182.209 | 183.919 | 754.111 | 316.783 | 1437.022 | (6.45) |
| 12. | Wayanad | 90.670 | 277.031 | 148.456 | 181.043 | 697.200 | (3.13) |
| 13. | Kannur | 192.124 | 256.254 | 976.421 | 518.491 | 1949.290 | (8.75) |
| 14. | Kasaragod | 141.780 | 1.250 | 324.076 | 557.773 | 1024.879 | (4.60) |
| Total | | 3768.999 | 5124.697 | 10494.141 | 2884.691 | 22272.528 | (100) |

Figures in brackets denote percentage over the total

Source : PWD (R&B)

Appendix - 7.4

Length of roads added during 1996-97 to different category of Public Works Department Roads

(in Kms)

| Item | Total | | | | | |
|----------------------------|---------------|----------------------|----------------------|---------------|---------|-----------|
| | 2 | 3 | 4 | 5 | 6 | 6 |
| | State Highway | Major District Roads | Other District Roads | Village Roads | | |
| Cement Concrete | | | | | | |
| Length as on 1-4-1996 | 8.871 | 3.243 | -- | 1.183 | | 13.297 |
| Length added in 1996-97 | (-) | (-) | -- | -- | (-) | 3.782\ |
| Length as on 31-3-1997 | 5.951 | 2.381 | -- | 1.183 | | 9.515 |
| Black Topped | | | | | | |
| Length as on 1-4-1996 | 2351.906 | 5849.309 | 10450.355 | 1018.622 | | 19670.192 |
| Length added in 1996-97 | 1167.597 | (-) | 382.997 | (-) | 127.746 | (-) |
| Length as on 31-3-1997 | 3519.503 | 5079.384 | 10067.358 | 890.876 | | 19557.121 |
| Water Bound Macadam | | | | | | |
| Length as on 1-4-1996 | -- | 16.370 | 137.270 | 298.516 | | 452.156 |
| Length added in 1996-97 | (+) | (-) | (-) | (-) | (-) | (-) |
| Length as on 31-3-1997 | 7.490 | 1.347 | 42.684 | 136.895 | | 173.436 |
| Others | | | | | | |
| Length as on 1-4-1996 | -- | 33.304 | 378.948 | 2314.953 | | 2727.205 |
| Length added in 1996-97 | (+) | (-) | (-) | (-) | (-) | (-) |
| Length as on 31-3-1997 | 236.055 | 5.595 | 46.751 | 483.942 | | 300.033 |
| Total | | | | | | |
| Length as on 1-4-1996 | 2360.777 | 5902.226 | 10966.573 | 3633.274 | | 22862.850 |
| Length added in 1996-97 | 1408.222 | (-) | 472.432 | 748.583 | (-) | 590.322 |
| Length as on 31-3-1997 | 3768.999 | 5124.897 | 10494.141 | 2884.891 | | 22272.528 |

Source : PWD (R&B)

Appendix - 7.5

District-wise and Surface-wise Length of Roads Maintained by P.W.D. as on 1-3-1997

(Kms)

| Sl No. | Name of District | Cement concrete | Block topped | Water bound Meceadam | Others | Total |
|--------|--------------------|-----------------|----------------------|----------------------|---------------------|--------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Thiruvananthapuram | -- | 1832.730 | 4.47 | -- | 1837.200 |
| 2. | Kollam | 0.200 | 1610.231 | 52.472 | 71.945 | 1734.848 |
| 3. | Pathanamthitta | -- | 1326.429 | -- | 45.682 | 1372.111 |
| 4. | Alappuzha | -- | 949.527 | 1.342 | 174.418 | 1125.287 |
| 5. | Kottayam | -- | 1987.805 | 40.901 | 82.977 | 2111.683 |
| 6. | Idukki | -- | 1111.235 | 42.538 | 540.542 | 1694.315 |
| 7. | Ernakulam | 0.322 | 2008.347 | 20.063 | 59.430 | 2088.162 |
| 8. | Thrissur | 4.560 | 1468.30 | 25.055 | 69.159 | 1567.074 |
| 9. | Palakkad | -- | 1656.551 | 23.500 | 2.800 | 1682.851 |
| 10. | Malappuram | -- | 1625.072 | 20.840 | 304.694 | 1960.606 |
| 11. | Kozhikode | 1.183 | 1180.489 | 10.970 | 244.380 | 1437.022 |
| 12. | Wayanad | -- | 674.26 | 13.090 | 9.850 | 697.20 |
| 13. | Kannur | 3.250 | 1394.274 | 19.179 | 532.587 | 1949.29 |
| 14. | Kasaragode | -- | 731.871 | 4.300 | 288.708 | 1024.879 |
| | Total | 9.515 (0.04) | 19557.121 (87.81) | 278.720 (1.25) | 2427.172 (10.90) | 22272.528 (100) |

Figures in brackets indicate percentage to total

Source : PWD (R&B)

Appendix - 7.6

No. of Bridges and Culverts in PWD Roads as on 1-4-1997

| Category of Road | (Kms) | | | | | | |
|----------------------|---------------|----------------|--------------|----------------|-----------------|-------------|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Bridges (No.) | Culverts (No.) | Total | Unsafe Bridges | Unsafe Culverts | Total | |
| State Highways | 378 | 7069 | 7447 | 27 | 259 | 286 | |
| Major District Roads | 771 | 14747 | 15518 | 38 | 257 | 295 | |
| Other District Roads | 567 | 19478 | 20045 | 19 | 490 | 509 | |
| Village Roads | 91 | 3478 | 3569 | 2 | 118 | 120 | |
| Total | 1807 | 44772 | 46579 | 86 | 1124 | 1210 | |

Source : Public Works Department - R & B.

Appendix : 7.7

Ranking of districts according to the rate of growth of Motor vehicles during 1996-97

| Rank | Name of District | Rate of growth (%) |
|------|--------------------|--------------------|
| 1. | Kottayam | 18.10 |
| 2. | Malappuram | 17.47 |
| 3 | Ernakulam | 17.24 |
| 4. | Wayanad | 16.98 |
| 5. | Kollam | 16.86 |
| 8. | Thrissur | 16.40 |
| 7. | Idukky | 15.53 |
| 8. | Kozhikoda | 12.76 |
| 9. | Alappuzha | 12.22 |
| 10. | Palakkad | 11.82 |
| 11 | Kasaragod | 11.78 |
| 12. | Kannur | 11.42 |
| 13. | Pathanamthitta | 9.50 |
| 14. | Thiruvananthapuram | 4.25 |

Category-wise Growth of Motor Vehicles in Kerala Since 1975

| SI No. | Type of Vehicles | 1975 | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------------------------------------------|---------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| I. GOODS VEHICLES | | | | | | | | | | | | |
| 1. | Four wheelers and above | 15785 | 20128 | 36699 | 51530 | 54753 | 57370 | 68176 | 78514 | 88180 | 97714 | 112792 |
| 2. | Three wheelers including Tempos | -- | 993 | 4170 | 9576 | 11437 | 13719 | 9160 | 9941 | 12072 | 14048 | 18794 |
| II. BUSES | | | | | | | | | | | | |
| 1. | Stage Carriages | 7828 | 8705 | 12910 | 15050 | 15606 | 15852 | 16883 | 18263 | 19988 | 21514 | 24856 |
| 2. | Contract Carriages Omni buses | -- | 842 | 2324 | 5234 | 5848 | 6981 | 8462 | 12107 | 14874 | 18683 | 23188 |
| III. CARS AND STATION WAGONS | | | | | | | | | | | | |
| 1. | Cars | 44497 | 54381 | 75731 | 116676 | 125769 | 128232 | 135299 | 144400 | 155150 | 171801 | 185868 |
| 2. | Station Wagons | -- | 196 | 507 | 849 | 891 | 946 | -- | -- | -- | -- | -- |
| 3. | Taxi Cars | 11525 | 17780 | 28189 | 37638 | 37830 | 36999 | 40931 | 49843 | 54681 | 57482 | 44734 |
| 4. | Jeeps | 5859 | 70223 | 12972 | 24351 | 26133 | 27302 | 29334 | 32563 | 37774 | 44639 | 62827 |
| IV. THREE WHEELERS | | | | | | | | | | | | |
| 1. | Authorickshaws | 3125 | 7397 | 24383 | 58165 | 67317 | 75211 | 83725 | 92296 | 103465 | 127913 | 114186 |
| 2. | Motorised Cycle Rickshaw | -- | 38 | 34 | 62 | 53 | 57 | 48 | 80 | 77 | 82 | 22 |
| V. TWO WHEELERS | | | | | | | | | | | | |
| 1. | Motorised Cycle | -- | 58 | 73 | 70 | 63 | 63 | 63 | 63 | 63 | 565 | 1073 |
| 2. | Scooter/Motor Cycle | 25769 | 50493 | 11629 | 248374 | 288498 | 330316 | 369537 | 428641 | 496873 | 591923 | 698933 |
| VI. | Tractor Trailors Articulated | 2735 | 1864 | 2104 | 2661 | 2660 | 2781 | 2803 | 2975 | 3388 | 4544 | 4193 |
| VII. | Tractors | -- | 1892 | 3089 | 4115 | 4305 | 4573 | 4315 | 4691 | 5045 | 5296 | 5841 |
| VIII. | Tillers | -- | 469 | 1118 | 1927 | 2069 | 2330 | 3225 | 4089 | 4626 | 4504 | 4497 |
| IX. | Trailors | -- | 260 | 416 | 580 | 506 | 592 | 621 | 682 | 763 | 760 | 700 |
| X. | Others | 2507 | 1735 | 2891 | 4190 | 3954 | 3815 | 8816 | 8524 | 8903 | 2430 | 26535 |
| TOTAL | | 119720 | 174254 | 319259 | 581054 | 647742 | 708172 | 781395 | 887672 | 1005922 | 1170241 | 1328619 |
| Percentage increase over the previous year | | -- | 13.01 | 15.26 | 11.03 | 11.48 | 9.3 | 10.34 | 13.6 | 13.3 | 16.34 | 13.50 |

Sources : Motor Vehicles Department

Note : - Figures for the year 1997 are provisional, as the related figures to Kollam, Alappuzha, Palakkad, Kannur and Kasaragod were provisional.

District-wise Growth of Motor Vehicles in Kerala and Their Index (base 1980-81 = 100)

| Sl. District | 1980-81 | | | 1985-86 | | | 1990-91 | | | 1991-92 | | | 1992-93 | | |
|-----------------------|---------------------|-------|--------|---------------------|--------|---------|---------------------|---------|--------|---------------------|-------|--|---------------------|-------|--|
| | Motor Vehicle (Nos) | Index | | Motor Vehicle (Nos) | Index | | Motor Vehicle (Nos) | Index | | Motor Vehicle (Nos) | Index | | Motor Vehicle (Nos) | Index | |
| 1 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | |
| 1. Thiruvananthapuram | 38676 | 100 | 61484 | 158.58 | 101980 | 263.70 | 11382 | 294.31 | 120868 | 312.54 | | | | | |
| 2. Kollam | 18853 | 100 | 34212 | 181.47 | 57694 | 306.02 | 58023 | 307.76 | 62871 | 333.48 | | | | | |
| 3. Pathanamthitta | -- | -- | 13316 | 599.01 | 35555 | 1599.42 | 40048 | 1801.52 | 43047 | 1936.43 | | | | | |
| 4. Alappuzha | 15549 | 100 | 25025 | 160.94 | 39545 | 254.33 | 43288 | 278.39 | 46560 | 299.44 | | | | | |
| 5. Kottayam | 12647 | 100 | 21041 | 160.37 | 39758 | 314.37 | 44695 | 353.40 | 56996 | 450.67 | | | | | |
| 6. Idukki | 4656 | 100 | 8097 | 173.90 | 12812 | 275.17 | 13819 | 296.79 | 15300 | 328.61 | | | | | |
| 7. Ernakulam | 34128 | 100 | 59611 | 174.67 | 105622 | 309.49 | 115605 | 338.73 | 124951 | 366.12 | | | | | |
| 8. Trissur | 19083 | 100 | 36693 | 192.28 | 70831 | 371.17 | 79421 | 416.18 | 89989 | 471.57 | | | | | |
| 9. Palakkad | 11656 | 100 | 20041 | 171.94 | 37623 | 322.78 | 42272 | 362.86 | 46055 | 395.12 | | | | | |
| 10. Malappuram | 7926 | 100 | 18605 | 209.50 | 30671 | 386.97 | 35032 | 441.98 | 40439 | 510.20 | | | | | |
| 11. Kozhikode | 17330 | 100 | 29448 | 169.92 | 55939 | 322.79 | 62105 | 358.56 | 68373 | 398.00 | | | | | |
| 12. Wayanad | -- | -- | 4703 | 202.11 | 8379 | 360.08 | 9082 | 390.28 | 9733 | 418.26 | | | | | |
| 13. Kannur | 14096 | 100 | 24478 | 173.65 | 36540 | 259.22 | 34764 | 246.62 | 37716 | 267.57 | | | | | |
| 14. Kasaragod | -- | -- | 6863 | 124.46 | 14793 | 268.28 | 16196 | 293.72 | 17900 | 324.63 | | | | | |
| Total | 194597 | 100 | 361617 | 185.83 | 647742 | 332.86 | 708172 | 363.91 | 781398 | 401.55 | | | | | |

Note :For Pathanamthitta, Wayanad and Kasaragod the years 1982-83, 1981-82 and 1984-85 are taken as base respectively.

(contd...)

| Sl. No. | District | 1993-94 | | | 1994-95 | | | 1995-95 | | | 1996-97 | | |
|--------------|----------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------|--|--|
| | | Motor vehicles (Nos.) | Index | Motor vehicles (Nos.) | Index | Motor vehicles (Nos.) | Index | Motor vehicles (Nos.) | Index | Motor vehicles (Nos.) | Index | | |
| 1 | 2 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | | | |
| 1. | Trivandrum | 132119 | 341.63 | 144775 | 374.36 | 166111 | 456.27 | 173164 | 475.84 | | | | |
| 2. | Kollam | 68474 | 363.20 | 70957 | 376.36 | 88484 | 555.88 | 103402 | 649.60 | | | | |
| 3. | Pathanamthitta | 47121 | 2119.70 | 52415 | 2537.85 | 55797 | 3086.14 | 61099 | 3379.42 | | | | |
| 4. | Alappuzha | 51406 | 330.61 | 58877 | 378.65 | 68254 | 480.89 | 76593 | 539.64 | | | | |
| 5. | Kottayam | 76105 | 601.76 | 86499 | 683.95 | 100059 | 852.80 | 18165 | 1007.12 | | | | |
| 6. | Idukki | 16908 | 363.14 | 18996 | 407.99 | 20856 | 703.33 | 24094 | 812.53 | | | | |
| 7. | Ernakulam | 140732 | 412.37 | 163107 | 477.93 | 196565 | 647.41 | 230444 | 759.00 | | | | |
| 8. | Thrissur | 101847 | 533.71 | 117995 | 618.33 | 135134 | 795.09 | 157293 | 925.47 | | | | |
| 9. | Palakkad | 54683 | 469.14 | 61847 | 530.60 | 70853 | 627.54 | 79224 | 701.68 | | | | |
| 10. | Malappuram | 48642 | 613.70 | 57600 | 726.72 | 69450 | 1011.35 | 81584 | 1188.05 | | | | |
| 11. | Kozhikode | 77447 | 446.90 | 91368 | 527.22 | 102526 | 656.14 | 115604 | 739.84 | | | | |
| 12. | Wayanad | 10492 | 450.88 | 11943 | 513.24 | 13888 | 749.68 | 16246 | 876.97 | | | | |
| 13. | Kannur | 41940 | 297.53 | 47173 | 334.66 | 55824 | 443.15 | 62198 | 493.75 | | | | |
| 14. | Kasaragod | 19756 | 358.29 | 22370 | 405.69 | 26400 | 593.69 | 29509 | 663.61 | | | | |
| Total | | 887672 | 456.16 | 1005922 | 516.93 | 1170241 | 678.12 | 1328619 | 769.90 | | | | |

Source : Motor Vehicles Department.

Note : For Pathanamthitta, Wayanad and Kasaragod the years 1982-83, 1981-82 & 1984-85 are taken as base year respectively.

Appendix : 7.10
District-wise details of newly registered Motor Vehicles during 1997

| Sl.No. | Name of District | No. of Motor vehicles |
|--------------|--------------------|-----------------------|
| 1. | Thiruvananthapuram | 27358 |
| 2. | Kollam | 17474 |
| 3. | Pathanamthitta | 7144 |
| 4. | Alappuzha | 7787 |
| 5. | Kottayam | 13274 |
| 6. | Idukki | 2532 |
| 7. | Ernakulam | 32518 |
| 8. | Thrissur | 19087 |
| 9. | Palakkad | 7379 |
| 10. | Malappuram | 11806 |
| 11. | Kozhikode | 12761 |
| 12. | Wayanad | 2240 |
| 13. | Kannur | 6095 |
| 14. | Kasargode | 2898 |
| Total | | 170353 |

Appendix - 7.11

Road Accidents in Kerala in which number of persons held during 1995-96 and 1996-97

| Sl. No. | Name of District | No. of Accidents | | Increase/Decrease % | | No. of persons injured | | Increase/Decrease % | | No. of persons Killed | | Increase/Decrease % | |
|---------|--------------------|------------------|---------|---------------------|---------|------------------------|---------|---------------------|---------|-----------------------|---------|---------------------|---------|
| | | 1995-96 | 1996-97 | 1995-96 | 1996-97 | 1995-96 | 1996-97 | 1995-96 | 1996-97 | 1995-96 | 1996-97 | 1995-96 | 1996-97 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | |
| 1. | Thiruvananthapuram | 4152 | 3779 | -9.0 | 4957 | 4919 | -0.8 | 278 | 275 | -1.1 | | | |
| 2. | Kollam | 3192 | 3144 | -1.5 | 4703 | 4514 | -4.0 | 207 | 230 | +11.1 | | | |
| 3. | Pathanamthitta | 1397 | 1332 | -4.7 | 1633 | 1539 | -5.8 | 108 | 89 | +17.6 | | | |
| 4. | Alappuzha | 2893 | 2911 | +0.6 | 3888 | 3948 | +1.5 | 185 | 215 | +16.2 | | | |
| 5. | Kottayam | 2647 | 2905 | +9.7 | 3486 | 4176 | +19.8 | 145 | 183 | +26.2 | | | |
| 6. | Idukki | 890 | 891 | 0.1 | 1809 | 1559 | -13.2 | 49 | 78 | +59.2 | | | |
| 7. | Emakulam | 6690 | 5513 | -17.6 | 8177 | 6787 | -17.0 | 408 | 356 | -12.7 | | | |
| 8. | Thirissur | 2986 | 2768 | -7.3 | 4086 | 4135 | +1.2 | 304 | 288 | -5.3 | | | |
| 9. | Palakkad | 2219 | 2207 | -0.5 | 3846 | 3617 | -6.0 | 243 | 264 | +8.6 | | | |
| 10. | Malappuram | 2806 | 2550 | -9.1 | 5178 | 4654 | -10.1 | 266 | 244 | -8.3 | | | |
| 11. | Kozhikkode | 3568 | 3211 | -10.0 | 5250 | 4704 | -10.4 | 237 | 200 | -15.6 | | | |
| 12. | Wayanad | 818 | 720 | -12.0 | 1372 | 1271 | -7.4 | 38 | 43 | +13.2 | | | |
| 13. | Kannur | 2005 | 1908 | -4.8 | 3497 | 3582 | +2.4 | 155 | 144 | -7.1 | | | |
| 14. | Kasaragod | 860 | 863 | +0.3 | 1593 | 1763 | +10.7 | 84 | 98 | +16.7 | | | |
| Total | | 37123 | 34702 | -6.5 | 53475 | 51168 | +4.3 | 2707 | 2707 | 0 | | | |

Source:- Director General of Police

Motor Vehicle Accidents in Kerala by Primary Causes of Accidents during 1996-97

| Sl. No. | District | Fault of driver of motor vehicle | Fault of driver of vehicle other than motor vehicle | Fault of cyclists | Fault of Pedestrian | Fault of passenger | Defect of motor vehicle | Defect of road | Bad weather condition | Other Causes | Causes not known | Total |
|--------------|--------------------|----------------------------------|-----------------------------------------------------|---------------------|----------------------|----------------------|-------------------------|---------------------|-----------------------|----------------------|----------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1. | Thiruvananthapuram | 3040 | 211 | 33 | 206 | 64 | 46 | -- | -- | 83 | 96 | 3779 |
| 2. | Kollam | 3117 | -- | -- | 18 | 9 | -- | -- | -- | -- | -- | 3144 |
| 3. | Pathanamthitta | 1219 | -- | -- | 22 | 37 | 54 | -- | -- | -- | -- | 1332 |
| 4. | Alappuzha | 2901 | -- | 1 | -- | -- | 1 | -- | -- | -- | 8 | 2911 |
| 5. | Kottayam | 2566 | 290 | 2 | 3 | 2 | 8 | 10 | 7 | 16 | 1 | 2905 |
| 6. | Idukki | 861 | -- | -- | -- | -- | 30 | -- | -- | -- | -- | 891 |
| 7. | Emakulam | 5395 | 1 | -- | 19 | 3 | 1 | 2 | -- | 90 | 2 | 5513 |
| 8. | Thrissur | 2760 | -- | -- | -- | 1 | 7 | -- | -- | -- | -- | 2768 |
| 9. | Palakkad | 2195 | -- | 2 | 1 | 1 | 3 | -- | -- | 2 | 3 | 2207 |
| 10. | Malappuram | 2541 | -- | 2 | 1 | -- | 6 | -- | -- | -- | -- | 2550 |
| 11. | Kozhikode | 3087 | 6 | 8 | 43 | 58 | 7 | 1 | -- | 1 | -- | 3211 |
| 12. | Wayanad | 712 | -- | 1 | -- | 1 | 1 | -- | 1 | 4 | -- | 720 |
| 13. | Kannur | 1905 | 1 | -- | 2 | -- | -- | -- | -- | -- | -- | 1908 |
| 14. | Kasaragod | 860 | -- | -- | -- | -- | 3 | -- | -- | -- | -- | 863 |
| Total | | 33159 (95.55) | 509 (1.47) | 49 (0.14) | 315 (0.91) | 176 (0.51) | 167 (0.48) | 13 (0.04) | 8 (0.02) | 196 (0.56) | 110 (0.32) | 34702 (100) |

Note : Figures in Brackets denote Percentage to total.

Source : Director General of Police.

Type-wise details of Motor Vehicles Involved in the Road Accidents in Kerala during 1996-97.

| Sl. No. | District | KSRTC Buses | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--------------|--------------------|---------------|----------------|----------------|----------------|-----------------|----------------|---------------------|-----------------|---------------|--------------|--------------|
| | | Other Buses | Goods Vehicles | Motor Cars | Jeeps | Autori-ckshawas | Two Wheelers | Misce-ness Vehicles | Class not known | Total | | |
| 1. | Thiruvananthapuram | 552 | 200 | 288 | 658 | 103 | 670 | 994 | 351 | 20 | 3836 | |
| 2. | Kollam | 186 | 394 | 385 | 630 | 68 | 625 | 647 | 201 | 8 | 3144 | |
| 3. | Pathanamthitta | 29 | 188 | 159 | 163 | 147 | 262 | 246 | 119 | 19 | 1332 | |
| 4. | Alappuzha | 211 | 303 | 459 | 451 | 52 | 588 | 939 | 107 | 52 | 3162 | |
| 5. | Kottayam | 76 | 579 | 349 | 372 | 257 | 661 | 437 | 81 | 12 | 2824 | |
| 6. | Idukki | 13 | 130 | 98 | 48 | 227 | 196 | 151 | 28 | -- | 891 | |
| 7. | Eranakulam | 108 | 1084 | 748 | 411 | -- | 814 | 1633 | 354 | 19 | 5171 | |
| 8. | Thrissur | 68 | 580 | 616 | 278 | 84 | 551 | 577 | -- | 14 | 2768 | |
| 9. | Palakkad | 34 | 500 | 451 | 222 | 314 | 483 | 668 | 152 | 9 | 2833 | |
| 10. | Malappuram | 16 | 540 | 296 | 163 | 519 | 677 | 263 | 164 | 4 | 2642 | |
| 11. | Kozhikode | 31 | 938 | 341 | 175 | 550 | 527 | 485 | 173 | 4 | 3224 | |
| 12. | Wayanad | 37 | 93 | 80 | 23 | 201 | 180 | 118 | 56 | -- | 788 | |
| 13. | Kannur | 6 | 584 | 229 | 175 | 228 | 348 | 245 | 91 | 2 | 1908 | |
| 14. | Kasaragod | 17 | 188 | 96 | 52 | 131 | 219 | 110 | 44 | 6 | 863 | |
| Total | | 1384 | 6301 | 4595 | 3821 | 2881 | 6801 | 7513 | 1921 | 169 | 35386 | (100) |
| | | (3.91) | (17.81) | (12.98) | (10.80) | (8.14) | (19.22) | (21.23) | (5.43) | (0.48) | | |

Note : Figures in brackets denote percentage to total.

Source : Director General of Police.

Appendix - 7.14

Motor Vehicle Accidents by time of Day during 1996-97

| Sl.No. | District | Day light | Darkness | Time not known | Total |
|--------|--------------------|--------------------------------|-------------------------------|----------------------------|------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Thiruvananthapuram | 2314 | 1465 | -- | 3779 |
| 2. | Kollam | 2181 | 963 | -- | 3144 |
| 3. | Pathanamthitta | 927 | 388 | 17 | 1332 |
| 4. | Alappuzha | 1857 | 1043 | 11 | 2911 |
| 5. | Kottayam | 2289 | 614 | 2 | 2905 |
| 6. | Idukki | 675 | 216 | -- | 891 |
| 7. | Eranakulam | 4726 | 777 | 10 | 5513 |
| 8. | Thrissur | 1068 | 1700 | -- | 2768 |
| 9. | Palakkad | 1743 | 462 | 2 | 2207 |
| 10. | Malappuram | 2121 | 428 | 1 | 2550 |
| 11. | Kozhikode | 2616 | 594 | 1 | 3211 |
| 12. | Wayanad | 572 | 148 | -- | 720 |
| 13. | Kannur | 1488 | 418 | 2 | 1908 |
| 14. | Kasaragod | 597 | 266 | -- | 863 |
| | Total | 25174 (72.54) | 9482 (27.33) | 46 (0.13) | 34702 (100) |

5171

Note : Figures in brackets denote percentage to total.
Source : Director General of Police.

APPENDIX - 7.15
K.S.R.T.C. Operational statistics 1996 - 97

| Sl. No. | Nama of Transport Unit | No. of buses held as on 31.3.'97 | No. of Schedules as on 31.3.'97 | No. of Routes as on 31.3.'97 | Route Distance (kms) | Gross KMS Operated | Effective KMS. operated | Passengers carried | Average carrying capacity per bus |
|---------|-------------------------------|----------------------------------|---------------------------------|------------------------------|----------------------|--------------------|-------------------------|--------------------|-----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Parassala | 58 | 57 | 94 | 4133 | 5176702 | 5176702 | 17396200 | 60 |
| 2. | Nayattinkara | 102 | 98 | 174 | 5976 | 8759510 | 8755608 | 30986864 | 59 |
| 3. | Poovar | 64 | 56 | 83 | 2829 | 4492024 | 4492024 | 17659701 | 63 |
| 4. | Vizhijam | 61 | 53 | 36 | 1624 | 4181622 | 4179962 | 18238205 | 62 |
| 5. | Kattakada | 90 | 83 | 139 | 3984 | 6967377 | 6967377 | 28446718 | 63 |
| 6. | Thiruvananthapuram Cantral | 130 | 111 | 72 | 9294 | 17699538 | 17699538 | 26050329 | 61 |
| 7. | Pappanamcode | 143 | 131 | 135 | 2269 | 7949393 | 7949393 | 39314856 | 66 |
| 8. | Thiruvananthapuram City | 156 | 150 | 127 | 1728 | 8607018 | 8579174 | 50965160 | 80 |
| 9. | Vikas Bhavan | 85 | 78 | 108 | 2144 | 4058505 | 4058505 | 16165135 | 80 |
| 10. | Peroorkada | 102 | 98 | 67 | 1099 | 5832990 | 5832990 | 33819046 | 80 |
| 11. | Nedumangad | 127 | 123 | 189 | 5678 | 10200671 | 10182227 | 37472101 | 59 |
| 12. | Kilimanoor | 71 | 71 | 195 | 6587 | 5940461 | 5940311 | 20718104 | 63 |
| 13. | Attingal | 117 | 106 | 62 | 2073 | 10215189 | 10215189 | 33196961 | 62 |
| 14. | Kollam | 111 | 114 | 108 | 5590 | 10887696 | 10887696 | 32486595 | 62 |
| 15. | Kottarakara | 126 | 116 | 117 | 8025 | 11847262 | 11846153 | 39930432 | 60 |
| 16. | Punaloor | 80 | 174 | 221 | 6984 | 6474069 | 6474069 | 21602405 | 60 |
| 17. | Pathanamthitta | 49 | 45 | 113 | 5912 | 4730418 | 4730718 | 11859767 | 65 |
| 18. | Adoor | 51 | 51 | 221 | 8846 | 4349341 | 4349341 | 14743443 | 61 |
| 19. | Karunagappally | 64 | 57 | 137 | 4646 | 5096295 | 5094967 | 20865865 | 62 |
| 20. | Kayamkulam | 74 | 66 | 95 | 2026 | 6144292 | 6144292 | 23538208 | 63 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|----------------|-----|-----|-----|------|----------|----------|----------|----|
| 21. | Haripad | 33 | 28 | 47 | 2563 | 3007429 | 3007429 | 9124982 | 61 |
| 22. | Mavelikara | 41 | 36 | 52 | 3578 | 3378729 | 3376049 | 9733961 | 62 |
| 23. | Alappuzha | 108 | 93 | 64 | 2528 | 9816290 | 9812819 | 31856042 | 62 |
| 24. | Chertahala | 79 | 68 | 69 | 2985 | 6622420 | 6615814 | 22317551 | 60 |
| 25. | Chenganoor | 48 | 49 | 90 | 3839 | 4086994 | 4086994 | 13887399 | 63 |
| 26. | Thiruvalla | 47 | 47 | 50 | 2032 | 3976537 | 3973934 | 15903726 | 62 |
| 27. | Changanessery | 48 | 46 | 30 | 1195 | 4135081 | 4133699 | 15904279 | 63 |
| 28. | Kottayam | 106 | 101 | 115 | 6672 | 11111183 | 11096755 | 24603002 | 62 |
| 29. | Ponkunnam | 24 | 14 | 14 | 1879 | 1975762 | 1975762 | 4084845 | 63 |
| 30. | Palai | 50 | 46 | 34 | 1894 | 5272074 | 5269849 | 13147894 | 62 |
| 31. | Erattupetta | 35 | 35 | 14 | 1128 | 3351956 | 3349919 | 9383349 | 62 |
| 32. | Vaikom | 38 | 31 | 12 | 1155 | 3647958 | 3647784 | 7498351 | 61 |
| 33 | Muvattupuzha | 50 | 51 | 18 | 1486 | 5009535 | 5008489 | 15498213 | 64 |
| 34 | Thodupuzha | 38 | 33 | 43 | 3980 | 3535314 | 3534963 | 5527483 | 64 |
| 35 | Kothamangalam | 28 | 25 | 40 | 2190 | 2894689 | 2893150 | 6387160 | 62 |
| 38 | Ernakulam | 74 | 49 | 45 | 4009 | 7654044 | 7654044 | 9455610 | 62 |
| 37 | Aluva | 55 | 49 | 55 | 2674 | 7138265 | 4519166 | 17336712 | 62 |
| 38 | Ankamaly | 36 | 32 | | | | 2618981 | 9563516 | 62 |
| 39 | North Paravoor | 41 | 37 | 43 | 1774 | 3533654 | 3532911 | 12353220 | 63 |
| 40 | Perumbavoor | 46 | 38 | 11 | 1198 | 3814243 | 3813141 | 15279797 | 63 |
| 41 | Chalakudy | 48 | 42 | 58 | 2806 | 4307887 | 4307542 | 10828954 | 63 |
| 42 | Mala | 42 | 35 | 55 | 3548 | 4156131 | 4156119 | 9998315 | 62 |
| 43 | Thrissur | 94 | 84 | 88 | 4487 | 10555980 | 10546333 | 16513795 | 63 |
| 44 | Puthukadu | 13 | 11 | 23 | 3568 | 1149710 | 1149710 | 3900945 | 62 |
| 45 | Guruvayoor | 32 | 30 | 25 | 7331 | 4431572 | 4431572 | 3950773 | 62 |
| 46 | Ponnani | 19 | 14 | 19 | 1968 | 1774310 | 1774214 | 2704714 | 63 |

(Contd...)

| | | | | | | | | | |
|--------------|-----------------|-------------|-------------|-------------|---------------|------------------|------------------|------------------------|-----------|
| 47 | Perunthaimanna | 19 | 15 | 15 | 5858 | 1812457 | 1812182 | 3578083 | 62 |
| 48 | Palakkad | 100 | 84 | 51 | 10578 | 13077339 | 13074311 | 18653508 | 62 |
| 49. | Malappuram | 33 | 28 | 29 | 6033 | 3482366 | 3481417 | 7071036 | 62 |
| 50 | Kozhikode | 88 | 75 | 53 | 4329 | 10551525 | 10550563 | 17433578 | 63 |
| 51 | Thamarassery | 31 | 31 | 39 | 2595 | 2523769 | 2523769 | 9074736 | 62 |
| 52 | Sulthan Bathery | 71 | 63 | 74 | 4280 | 6150093 | 6136823 | 15925629 | 63 |
| 53 | Kannur | 89 | 80 | 50 | 6531 | 9221930 | 9219229 | 16716867 | 62 |
| 54 | Payyannoor | 43 | 41 | 25 | 1638 | 3927226 | 3927226 | 11908063 | 62 |
| 55 | Kasargode | 47 | 45 | 30 | 1252 | 3638265 | 3637844 | 14033818 | 63 |
| 56 | Mananthavady | 49 | 45 | 44 | 2654 | 4244892 | 4244892 | 10267655 | 63 |
| 57 | Kalpatta | 32 | 29 | 19 | 1017 | 2449621 | 2446429 | 7363496 | 62 |
| 58 | Vadakara | 14 | 12 | 32 | 1328 | 486334 | 436934 | (include in Kozhikode) | 62 |
| Total | | 3750 | 3408 | 4068 | 214008 | 331464822 | 331334797 | 984225152 | 61 |

Source : KSRTC

APPENDIX - 7.16
Fare Structure of K.S.R.T.C. During 1995-96 and 1996-97

| Sl.No. | Type of Service | Minimum Fare (in Ps.) | | | | | |
|--------|-----------------|-----------------------|---------|---------|---------|---------|---------|
| | | 1995-96 | 1996-97 | 1995-96 | 1995-96 | 1996-97 | 1996-97 |
| 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1. | City | 18 | 22 | 100 | 125 | | |
| 2. | Ordinary | 18 | 22 | 100 | 125 | | |
| 3. | Fast Passenger | 22 | 27 | 150 | 200 | | |
| 4. | Super Fast | 24 | 29 | 300 | 300 | | |
| 5. | Super Express | 28 | 34 | 500 | 500 | | |
| 6. | Super Deluxe | 32 | 39 | 1000 | 1000 | | |

Source : K.S.R.T.C

Appendix : 7.17

K.S.R.T.C. Operational Ratios 1996-97

| Sl.No. | Name of Transport Unit | Average No. of buses held daily | Average Kms. run per day per bus | Percentage Vehicular utilisation | Average Route length (Kms) | Average earnings per passenger | Average distance travelled by a passenger (Kms). | Earnings per Km. of buses operated (in Ps) | Earnings per vehicle on road per day (Rs.) |
|--------|------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------|--------------------------------|--------------------------------------------------|--------------------------------------------|--------------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Parasala | 59 | 321.7 | 74.6 | 44.0 | 276.3 | 18.2 | 928 | 2993 |
| 2. | Nayyattinkara | 87 | 302.3 | 81.4 | 34.3 | 253.8 | 17.2 | 898 | 2727 |
| 3. | Poovar | 61 | 280.3 | 68.9 | 34.1 | 228.5 | 15.5 | 896 | 2832 |
| 4. | Vizhinjam | 58 | 284.3 | 69.0 | 45.1 | 223.1 | 14.0 | 973 | 2787 |
| 5. | Kattakkada | 85 | 282.4 | 76.5 | 28.7 | 242.2 | 14.9 | 989 | 2904 |
| 6. | TVM. Cantral | 131 | 457.2 | 80.8 | 129.1 | 823.1 | 41.4 | 1211 | 5542 |
| 7. | Pappanamkode | 136 | 218.7 | 73.5 | 12.8 | 184.7 | 12.3 | 914 | 1890 |
| 8. | TVM City | 157 | 221.3 | 67.5 | 13.6 | 180.4 | 10.3 | 1071 | 2376 |
| 9. | Vikas Bhavan | 83 | 252.8 | 68.2 | 19.9 | 238.8 | 15.3 | 950 | 2458 |
| 10. | Paroorkada | 85 | 217.6 | 76.8 | 16.4 | 164.4 | 10.5 | 853 | 2067 |
| 11. | Nadumangad | 118 | 304.6 | 78.0 | 30.0 | 258.8 | 16.6 | 963 | 2888 |
| 12. | Killmanoor | 68 | 308.8 | 76.8 | 33.8 | 275.2 | 17.5 | 960 | 2947 |
| 13. | Attinjal | 112 | 321.7 | 77.7 | 33.4 | 312.6 | 18.8 | 1016 | 3268 |
| 14. | Kollam | 111 | 343.0 | 78.4 | 51.6 | 329.8 | 20.4 | 984 | 3374 |
| 15. | Kottarakara | 124 | 323.9 | 80.6 | 68.6 | 308.7 | 18.1 | 1041 | 3377 |
| 16. | Punaloor | 76 | 296.1 | 78.3 | 31.6 | 304.3 | 18.3 | 1018 | 3106 |
| 17. | Pathanamthitta | 42 | 344.6 | 90.5 | 52.3 | 408.8 | 24.3 | 1025 | 3496 |
| 18. | Adoor | 48 | 325.5 | 75.0 | 40.0 | 282.8 | 18.0 | 983 | 3286 |
| 19. | Karunagappally | 62 | 306.3 | 72.5 | 33.8 | 263.3 | 14.9 | 1078 | 3344 |
| 20. | Kayamkulam | 68 | 324.0 | 75.4 | 42.4 | 273.0 | 15.9 | 1098 | 3385 |
| 21. | Haripad | 31 | 348.2 | 74.2 | 54.5 | 365.1 | 20.1 | 1108 | 3963 |
| 22. | Mavaiikkara | 38 | 327.3 | 73.7 | 68.8 | 347.9 | 21.2 | 1003 | 3313 |
| 23. | Alappuzha | 101 | 312.4 | 85.1 | 38.5 | 331.6 | 18.8 | 1076 | 3384 |
| 24. | Charthala | 77 | 300.3 | 78.8 | 43.3 | 286.2 | 18.1 | 965 | 2966 |
| 25. | Chenganoor | 47 | 303.0 | 80.8 | 42.6 | 340.7 | 18.0 | 1163 | 3411 |
| 26. | Thiruvalla | 47 | 302.1 | 76.6 | 40.6 | 260.1 | 15.2 | 1041 | 3248 |

(Contd...)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|---------------------|------|-------|------|-------|--------|------|------|------|
| 27. | Changanachary | 44 | 305.5 | 84.1 | 39.8 | 282.1 | 15.9 | 1085 | 3322 |
| 28. | Kottayam | 104 | 368.8 | 81.7 | 58.0 | 517.8 | 27.5 | 1148 | 4106 |
| 29. | Ponkunnam | 19 | 352.6 | 78.9 | 134.0 | 537.4 | 29.5 | 1111 | 4009 |
| 30. | Palal | 48 | 358.6 | 81.6 | 55.7 | 400.1 | 24.4 | 998 | 3803 |
| 31. | Erettupatta | 35 | 340.9 | 77.1 | 80.5 | 390.8 | 21.7 | 1098 | 3721 |
| 32. | Vaikom | 36 | 350.0 | 77.8 | 96.2 | 459.1 | 29.7 | 944 | 3388 |
| 33. | Muvattupuzha | 51 | 334.4 | 80.4 | 82.5 | 352.7 | 19.7 | 1091 | 3663 |
| 34. | Thodupuzha | 32 | 372.0 | 81.2 | 92.5 | 701.3 | 39.0 | 1097 | 4085 |
| 35. | Kothamangalam | 25 | 402.3 | 80.0 | 54.7 | 508.4 | 27.6 | 1122 | 4448 |
| 36. | Ernakulam | 70 | 351.0 | 85.7 | 89.1 | 909.7 | 49.4 | 1124 | 3928 |
| 37. | Aluva | 56 | 256.1 | 85.7 | 48.6 | 250.4 | 15.9 | 1260 | 3250 |
| 38. | Ankamali | 30 | 307.1 | 76.7 | 48.6 | 250.4 | 16.7 | 868 | 1239 |
| 39 | North Paravoor | 40 | 315.1 | 77.5 | 41.3 | 262.8 | 17.4 | 919 | 2889 |
| 40. | Parumbavoor | 43 | 314.3 | 76.7 | 108.9 | 255.0 | 15.2 | 1022 | 3234 |
| 41. | Chalakkudy | 46 | 321.4 | 80.4 | 48.4 | 426.1 | 24.3 | 1071 | 3417 |
| 42. | Mala | 40 | 370.8 | 82.5 | 64.5 | 424.1 | 25.4 | 1020 | 3521 |
| 43. | Thrissur + Puthukad | 99 | 483.5 | 73.2 | 51.0 | 590.4 | 39.0 | 1031 | 5242 |
| 44. | Guruvayoor | 33 | 500.4 | 75.7 | 293.2 | 1188.7 | 68.4 | 1042 | 5080 |
| 45. | Ponnani | 15 | 401.8 | 80.0 | 103.6 | 654.9 | 40.0 | 998 | 4044 |
| 48. | Parunthimanna | 17 | 368.1 | 82.3 | 390.5 | 537.9 | 30.9 | 1061 | 3764 |
| 47. | Palakkad | 92 | 434.8 | 90.2 | 207.4 | 739.1 | 42.8 | 1055 | 4551 |
| 48. | Malappuram | 30 | 418.0 | 76.7 | 208.0 | 501.8 | 30.0 | 1019 | 4227 |
| 49. | Kozhikoda | 96 | 398.1 | 86.9 | 81.7 | 619.5 | 36.9 | 983 | 4053 |
| 50 | Thamarassary | 28 | 319.6 | 78.6 | 66.5 | 255.2 | 17.0 | 918 | 2884 |
| 51. | Sulthan bathery | 70 | 298.7 | 75.7 | 57.8 | 370.5 | 23.5 | 961 | 3050 |
| 52 | Kannur | 82 | 363.0 | 82.5 | 130.6 | 477.3 | 33.6 | 855 | 3123 |
| 53. | Payyanoor | 40 | 327.8 | 82.5 | 65.5 | 277.7 | 20.1 | 842 | 2745 |
| 54. | Kasargoda | 42 | 280.2 | 83.3 | 41.7 | 245.6 | 15.8 | 948 | 2698 |
| 55. | Mananthavady | 52 | 301.9 | 75.0 | 60.3 | 406.8 | 25.2 | 984 | 2935 |
| 56. | Kalpetta | 30 | 295.1 | 76.7 | 53.5 | 308.5 | 20.3 | 929 | 2706 |
| | Total | 3560 | 330.1 | 78.3 | 52.6 | 343.0 | 20.5 | 1019 | 3318 |

Source : K.S.R.T.C

Air Traffic (Indian Airlines) at Thiruvananthapuram, Kochi and Kozhikode during 1995-96 and 1996-97

| Category of traffic | Terminating | | | | | | | | | | Total | |
|---------------------|-------------|---------|------------------------------|---------|---------|------------------------------|---------|---------|------------------------------|---------|-------|---------|
| | 1995-96 | 1996-97 | increase(+)/ decrease(-)% | 1995-96 | 1996-97 | increase(+)/ decrease(-)% | 1995-96 | 1996-97 | increase(+)/ decrease(-)% | 1995-96 | | 1996-97 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
| Passenger | 334960 | 327171 | -2.33 | 340030 | 345312 | +1.55 | 674990 | 672483 | -0.37 | | | |
| Cargo (in Tonnes) | 3964 | 4223 | +6.53 | 3039 | 3082 | +1.41 | 7003 | 7305 | +4.31 | | | |

Source : G.M. Southern Region Indian Airlines Ltd.

Appendix : 7.19

Air traffic (Indian Air Lines) at Thiruvananthapuram, Kochi and Kozhikode (1986-87 to 1996-97)

| Year | Thiruvananthapuram | | | | | | | | | | Kochi | | | | | | | Kozhikode | | | | | | | Total | | |
|---------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------|------------------|------------------|------------------|------------------|-------|-------|--|
| | Origi- nating | Termi- nating | Origi- nating | Termi- nating | Origi- nating | Termi- nating | Origi- nating | Termi- nating | Origi- nating | Termi- nating | Total | Origi- nating | Termi- nating | Origi- nating | Termi- nating | Origi- nating | Termi- nating | Origi- nating | Termi- nating | Total | Origi- nating | Termi- nating | Origi- nating | Termi- nating | | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | | | | | | | | | | | |
| 1986-87 | 133572 | 153627 | 196285 | 209430 | -- | -- | 329857 | 363057 | 892.10 | 1977.85 | 1026.47 | 1466.13 | -- | -- | 1918.57 | 3443.98 | | | | | | | | | | | |
| 1987-88 | 134858 | 147071 | 194166 | 207110 | -- | -- | 329024 | 354181 | 908.21 | 1908.2 | 925.09 | 1260.39 | -- | -- | 1833.30 | 3168.68 | | | | | | | | | | | |
| 1988-89 | 148652 | 157699 | 179300 | 189650 | 22182 | 23241 | 350734 | 370590 | 1138.91 | 1899.85 | 931.71 | 1227.19 | 8.21 | 43.23 | 2078.83 | 3170.27 | | | | | | | | | | | |
| 1989-90 | 142809 | 155092 | 163965 | 171610 | 34644 | 39454 | 341418 | 366156 | 1355.16 | 1731.21 | 1076.92 | 1127.64 | 85.52 | 40.64 | 2517.90 | 2899.49 | | | | | | | | | | | |
| 1990-91 | 112716 | 128377 | 134035 | 148850 | 32149 | 40671 | 278900 | 315898 | 1439.25 | 1622.17 | 746.72 | 670.02 | 69.29 | 44.87 | 2255.26 | 2337.06 | | | | | | | | | | | |
| 1991-92 | 119703 | 129841 | 138441 | 139953 | 49771 | 57048 | 307915 | 326842 | 1735.27 | 1251.29 | 609.65 | 689.43 | 45.03 | 64.94 | 2380.95 | 2005.86 | | | | | | | | | | | |
| 1992-93 | 120079 | 105582 | 104003 | 101797 | 78198 | 70587 | 302280 | 277966 | 994.00 | 1433.57 | 887.99 | 692.11 | 110.61 | 178.40 | 1793.50 | 2304.08 | | | | | | | | | | | |
| 1993-94 | 143000 | 159000 | 97000 | 110000 | 78000 | 84000 | 318000 | 353000 | 1858.00 | 1058.00 | 506.00 | 1013.00 | 568.00 | 130.00 | 2920.00 | 2201.00 | | | | | | | | | | | |
| 1994-95 | 144309 | 158952 | 86084 | 121758 | 79334 | 87523 | 309727 | 368233 | 2284.00 | 1223.00 | 646.00 | 1231.00 | 617.00 | 131.00 | 3547.00 | 2585.00 | | | | | | | | | | | |
| 1995-96 | 151831 | 151409 | 93212 | 93180 | 89313 | 95441 | 334956 | 340030 | 2432.00 | 1302.00 | 778.00 | 919.00 | 754.00 | 818.00 | 3964.00 | 3039.00 | | | | | | | | | | | |
| 1996-97 | 134894 | 136770 | 83489 | 85238 | 106888 | 123304 | 327171 | 345312 | 2184.00 | 1109.00 | 1149.00 | 1071.00 | 910.00 | 902.00 | 4223.00 | 3082.00 | | | | | | | | | | | |

Source :- G.M. Southern Region, Indian Airlines Ltd.)

No. of ships called at Cochin Port during 1995-96 & 1996-97 with their net registered tonnage

| Sl No. | Type of Vessels | No. of ships | | % variation increase(+)/ decrease(-) | Net Registered Tonnage | | %variation increase(+)/ decrease(-) |
|--------|--------------------|--------------|------------|--------------------------------------------|------------------------|----------------|-------------------------------------------|
| | | 1995-96 | 1996-97 | | 1995-96 | 1996-97 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Container | 261 | 278 | +6.5 | 842682 | 1133557 | +34.52 |
| 2. | Break Bulk | 105 | 134 | +27.6 | 437898 | 480496 | +9.73 |
| 3. | Dry Bulk | | | | | | |
| | (a) Conventional | 19 | 20 | +5.3 | 139250 | 240215 | +72.51 |
| | (b) Mechanical | 24 | 21 | -12.5 | 212441 | 248966 | +16.25 |
| 4. | Liquid Bulk | | | | | | |
| | (a) Crude | 177 | 165 | -6.8 | 3860695 | 3297239 | -14.60 |
| | (b) Product | 151 | 147 | -2.6 | 1180624 | 1611356 | +36.48 |
| | (c) Others | 60 | 63 | +5.0 | 367496 | 368153 | +0.18 |
| 5. | Passenger Carriers | 28 | 17 | -39.3 | 165774 | 129755 | -21.73 |
| 6. | Others | 96 | 95 | -1.0 | 142183 | 140827 | -0.95 |
| | Total | 921 | 940 | +2.1 | 7349041 | 7648564 | +4.08 |

Source : Planning & Research Division, Cochin Port Trust

APPENDIX - 7.21

Commodity wise Cargo handled at Intermediate and Minor Ports in Kerala during the year 1996-97

(in Tonnes)

| Sl No. | Name of Port | Commodity | Export | | | Import | | | Grand Total |
|--------|--------------------|------------------------|---------|---------|-------|---------|---------|-------|-------------|
| | | | Coastal | Foreign | Total | Coastal | Foreign | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Kasaragod | Nil | -- | -- | -- | -- | -- | -- | -- |
| 2. | Azhikkal | Timber | 1536 | -- | 1536 | 2 | -- | 2 | 1538 |
| 3. | Kannur | Nil | -- | -- | -- | -- | -- | -- | Nil |
| 4. | Thalassery | Nil | -- | -- | -- | -- | -- | -- | Nil |
| 5. | Vadakara | Nil | -- | -- | -- | -- | -- | -- | Nil |
| 6. | Kozhikode/Beyypore | Copra | -- | -- | -- | 205 | -- | 205 | 205 |
| | | Soda ash | -- | -- | -- | 5358 | -- | 5358 | 5358 |
| | | Bauxite | -- | -- | -- | 4329 | -- | 4329 | 4329 |
| | | Fish | -- | -- | -- | 148 | -- | 148 | 148 |
| | | Coir & Fibre | -- | -- | -- | 75 | -- | 75 | 75 |
| | | Cement | 5641 | -- | 5641 | 5855 | -- | 5855 | 11496 |
| | | Food grains | 1337 | -- | 1337 | 1516 | -- | 1516 | 2853 |
| | | Miscellaneous Items | 878 | 147 | 1025 | 957 | -- | 957 | 1982 |
| | | Edible Oil | 203 | -- | 203 | -- | -- | -- | 203 |
| | | Vegetables & Fruits | 177 | -- | 177 | -- | -- | -- | 177 |
| | | Provision & stationery | 619 | -- | 619 | -- | -- | -- | 619 |
| | | HSD Oil | 8696 | -- | 8696 | -- | -- | -- | 8696 |
| | | Granite | 7503 | -- | 7503 | -- | -- | -- | 7503 |
| | | Metal & Jelly | -- | -- | -- | -- | -- | -- | -- |
| | | River Sand | 4780 | -- | 4780 | -- | -- | -- | 4780 |
| | | Tiles & Bricks | 2358 | -- | 2358 | -- | -- | -- | 2358 |
| | | Household Equipments | 208 | -- | 208 | -- | -- | -- | 208 |
| | | Iron & Steel | 527 | -- | 527 | -- | -- | -- | 527 |
| | | Salt | 168 | -- | 168 | -- | -- | -- | 168 |
| | | Timber | 603 | -- | 603 | -- | -- | -- | 603 |
| | | Wooden Machuva | -- | 884 | 884 | -- | -- | -- | 884 |
| | | Sub Total | 33698 | 1031 | 34729 | 18423 | -- | 18423 | 53152 |

(Contd...)

No. of ships called at Cochin Port during 1995-96 & 1996-97 with their net registered tonnage

| Sl No. | Type of Vessels | No. of ships | | % variation increase(+)/ decrease(-) | Net Registered Tonnage | | %variation increase(+)/ decrease(-) |
|--------|--------------------|--------------|------------|--------------------------------------------|------------------------|----------------|-------------------------------------------|
| | | 1995-96 | 1996-97 | | 1995-96 | 1996-97 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Container | 261 | 278 | +6.5 | 842682 | 1133557 | +34.52 |
| 2. | Break Bulk | 105 | 134 | +27.6 | 437896 | 480496 | +9.73 |
| 3. | Dry Bulk | | | | | | |
| | (a) Conventional | 19 | 20 | +5.3 | 139250 | 240215 | +72.51 |
| | (b) Mechanical | 24 | 21 | -12.5 | 212441 | 246966 | +16.25 |
| 4. | Liquid Bulk | | | | | | |
| | (a) Crude | 177 | 165 | -6.8 | 3860695 | 3297239 | -14.60 |
| | (b) Product | 151 | 147 | -2.6 | 1180624 | 1611356 | +36.48 |
| | (c) Others | 60 | 63 | +5.0 | 367496 | 368153 | +0.18 |
| 5. | Passenger Carriers | 28 | 17 | -39.3 | 165774 | 129755 | -21.73 |
| 6. | Others | 96 | 95 | -1.0 | 142183 | 140827 | -0.95 |
| | Total | 921 | 940 | +2.1 | 7349041 | 7648564 | +4.08 |

Source : Planning & Research Division, Cochin Port Trust

APPENDIX - 7.21
Commodity wise Cargo handled at Intermediate and Minor Ports in Kerala during the year 1996-97

| Sl No. | Name of Port | Commodity | Export | | | | | | Import | | | Grand Total |
|--------|--------------------|------------------------|---------|------|---------|-------|-------|---------|---------|-------|-------|-------------|
| | | | Coastal | | Foreign | | Total | Coastal | Foreign | Total | | |
| | | | 4 | 5 | 6 | 7 | | | | | 8 | |
| 1 | 2 | 3 | | | | | | | | | | 10 |
| 1. | Kasaragod | Nil | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2. | Azhikkal | Timber | 1536 | -- | 1536 | 2 | -- | 2 | -- | -- | 2 | 1538 |
| 3. | Kannur | Nil | -- | -- | -- | -- | -- | -- | -- | -- | -- | Nil |
| 4. | Thalassery | Nil | -- | -- | -- | -- | -- | -- | -- | -- | -- | Nil |
| 5. | Vadakara | Nil | -- | -- | -- | -- | -- | -- | -- | -- | -- | Nil |
| 8. | Kozhikode/Beyppore | Copra | -- | -- | -- | 205 | -- | 205 | -- | -- | 205 | 205 |
| | | Soda ash | -- | -- | -- | 5358 | -- | 5358 | -- | -- | 5358 | 5358 |
| | | Bauxite | -- | -- | -- | 4329 | -- | 4329 | -- | -- | 4329 | 4329 |
| | | Fish | -- | -- | -- | 148 | -- | 148 | -- | -- | 148 | 148 |
| | | Coir & Fibre | -- | -- | -- | 75 | -- | 75 | -- | -- | 75 | 75 |
| | | Cement | 5641 | -- | 5641 | 5855 | -- | 5855 | -- | -- | 5855 | 11496 |
| | | Food grains | 1337 | -- | 1337 | 1516 | -- | 1516 | -- | -- | 1516 | 2853 |
| | | Miscellaneous Items | 878 | 147 | 1025 | 957 | -- | 957 | -- | -- | 957 | 1982 |
| | | Edible Oil | 203 | -- | 203 | -- | -- | -- | -- | -- | -- | 203 |
| | | Vegetables & Fruits | 177 | -- | 177 | -- | -- | -- | -- | -- | -- | 177 |
| | | Provision & stationery | 619 | -- | 619 | -- | -- | -- | -- | -- | -- | 619 |
| | | HSD Oil | 8696 | -- | 8696 | -- | -- | -- | -- | -- | -- | 8696 |
| | | Granite | 7503 | -- | 7503 | -- | -- | -- | -- | -- | -- | 7503 |
| | | Metal & Jelly | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | River Sand | 4780 | -- | 4780 | -- | -- | -- | -- | -- | -- | 4780 |
| | | Tiles & Bricks | 2358 | -- | 2358 | -- | -- | -- | -- | -- | -- | 2358 |
| | | Household Equipments | 208 | -- | 208 | -- | -- | -- | -- | -- | -- | 208 |
| | | Iron & Steel | 527 | -- | 527 | -- | -- | -- | -- | -- | -- | 527 |
| | | Salt | 168 | -- | 168 | -- | -- | -- | -- | -- | -- | 168 |
| | | Timber | 603 | -- | 603 | -- | -- | -- | -- | -- | -- | 603 |
| | | Wooden Machuva | -- | 884 | 884 | -- | -- | -- | -- | -- | -- | 884 |
| | | Sub Total | 33698 | 1031 | 34729 | 18423 | -- | 18423 | -- | -- | 18423 | 53152 |

(Contd...)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------|---------------------------|----------|--------------|--------------|--------------|--------------|-----------|--------------|---------------|
| 7. | Ponnani | Nil | -- | -- | -- | -- | -- | -- | -- |
| 8. | Alappuzha | Nil | -- | -- | -- | -- | -- | -- | Nil |
| 9. | Munambam | Nil | -- | -- | -- | -- | -- | -- | Nil |
| 10. | Naandakara | ilmanite | -- | 51130 | 51130 | -- | -- | -- | 51130 |
| 11. | Trivandrum/ Valiathura | Nil | -- | -- | -- | -- | -- | -- | -- |
| 12. | Kovalam- Vizhinjam | Nil | -- | -- | -- | -- | -- | -- | Nil |
| Total | | | 35234 | 52161 | 87395 | 18425 | -- | 18425 | 105820 |

Source : Directorate of Ports

Appendix - 7.22

Statement showing the Number and Tonnage of Steamers and Sailing Vessels which called at Intermediate and Minor Ports during the Year 1996-97

| Sl. No. | Name of Port | Name of Trade Foreign/Coastal | Steamers | | Sailing Vessels | | Total | |
|--------------|------------------------------------|-------------------------------|-----------|--------------|-----------------|--------------|------------|--------------|
| | | | Number | Tonnage | Number | Tonnage | Number | Tonnage |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Kasargode | Nil | Nil | Nil | -- | -- | -- | -- |
| 2. | Ashikkal | Coastal | -- | -- | 33 | 1536 | 33 | 1536 |
| 3. | Kannur | -- | -- | -- | -- | -- | -- | -- |
| 4. | Thalassery | -- | -- | -- | -- | -- | -- | -- |
| 5. | Vadakara | -- | -- | -- | -- | -- | -- | -- |
| 6. | Kozhikode/Baypore | Foreign | 51 | 21522 | 312 | 33354 | 363 | 54876 |
| 7. | Ponnani | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| 8. | Manambam | -- | -- | -- | -- | -- | -- | -- |
| 9. | Alappuzha | -- | -- | -- | -- | -- | -- | -- |
| 10. | Neendakara | Foreign | 2 | 51162 | Nil | Nil | 2 | 51162 |
| 11. | Valiyathura/ Thiruvananthapuram | -- | -- | -- | -- | -- | -- | -- |
| 12. | Vizhinjam | Foreign | Nil | Nil | 9 | 834 | 9 | 834 |
| Total | | | 53 | 72684 | 354 | 35724 | 407 | 10848 |

Source : Directorate of Ports

Appendix - 7.23

Number of harbour Crafts Registered at the Intermedite and Minor Ports of Kerala During 1996-97

| Sl. No. | Name of Port | Cargo Boats including barges | Canoes including boats | Mechanised fishing vessels | Others | Total |
|--------------|--------------------|------------------------------|------------------------|----------------------------|----------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Kasargode | -- | 96 | -- | -- | 96 |
| 2. | Kozhikode/Beyypore | -- | -- | 4 | 2 | 6 |
| 3. | Munambam | -- | -- | 73 | -- | 73 |
| 4. | Alappuzha | -- | -- | 104 | -- | 104 |
| 5. | Neendakara | -- | -- | 584 | -- | 584 |
| Total | | -- | 96 | 765 | 2 | 863 |

Source : Directorate of Ports

Appendix - 7.24

Category-wise break up of Revenue collected at the Intermediate and Minor Ports of Kerala During 1996-97

| Sl. No. | Name of Port | (in Rupees) | | | | | | | Total |
|---------|------------------------------------|--------------|------------------------|---------------------|-------------------|--------------------------------|----------------|-----------------|-------|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | Port dues | Exports Import dues | Tug hire charges | Pilotages fees | Registration and other fees | Miscellaneous | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 1. | Kasargode | -- | -- | -- | -- | 10260 | 830139 | 840399 | |
| 2. | Azhikkal | 1900 | 11485 | -- | -- | 5490 | 6587 | 25462 | |
| 3. | Kannur | -- | -- | -- | -- | 17643 | -- | 17643 | |
| 4. | Thalassery | -- | -- | -- | -- | 67768 | 860 | 68628 | |
| 5. | Vadakara | -- | -- | -- | -- | 9822 | -- | 9822 | |
| 6. | Kozhikode/Baypore | 32845 | 363795 | 115832 | 25340 | 129494 | 1118576 | 1785882 | |
| 7. | Ponnani | -- | -- | -- | -- | -- | 4528 | 4528 | |
| 8. | Munambam | -- | -- | -- | -- | -- | -- | -- | |
| 9. | Alappuzha | -- | -- | -- | -- | 280525 | 16457 | 296982 | |
| 10. | Neendakara | 19391 | 244500 | 2868514 | -- | 127100 | 5848090 | 9107595 | |
| 11. | Valiyathura/ Thiruvananthapuram | -- | -- | -- | -- | -- | 63843 | 63843 | |
| 12. | Vizhinjam - Kovalam | 3002 | 9505 | -- | -- | -- | 147987 | 160494 | |
| 13. | Directorate of Ports | -- | -- | -- | -- | -- | 201360 | 201360 | |
| | Total | 57138 | 629285 | 2984346 | 25340 | 648102 | 8238427 | 12582638 | |

Source : Directorate of Ports

Appendix - 7.25

Operational statistics of Inland Water Transport Agencies in Kerala

| Sl. No. | Particulars | State Water Transport Department | | Kerala Shipping & Inland Navigation Corporation | |
|---------|----------------------------------------------|----------------------------------|---------|-------------------------------------------------|--------------|
| | | 1995-96 | 1996-97 | 1995-96 | 1996-97 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Total Number of Boats | 77 | 77 | 11+2 Jhankar | 11+2 Jhankar |
| 2. | Boats in operation | 51 | 54 | 11+2 Jhankar | 11+2 Jhankar |
| 3. | No. of Trips on Schedule | 408 | 400 | 29403 | 32622 |
| 4. | No. of passengers carried (in lakhs) | 243.24 | 266.22 | 61.78 | 62.39 |
| 5. | Gross Route Distance (Barges + Boats in kms) | 1527.6 | 1493.6 | 581228 | 660824 |
| 6. | Volume of cargo carried ('000 tonnes) | 229.47 | 223.35 | 350.00 | 328.00 |
| 7. | Total revenue receipts (Rs. lakhs) | 360.28 | 382.19 | 401.94 | 418.68 |
| 8. | Total revenue expenditure (Rs. lakhs) | 595.89 | 702.71 | 342.64 | 393.93 |
| 9. | Profit/Loss (Rs. in lakhs) | -235.60 | -320.52 | 28.62 | (-)4.03 |

Source : SWTD & KSINC

Appendix - 7.26

Number of passports Issued From the Passport Offices in Kerala from 1986-87 to 1996-97

| Year | No. of Application Received | | | | No. of Passports Issued | | | | |
|---------|-----------------------------|--------|-----------|--------|-------------------------|--------|-----------|--------|--|
| | Thiruvananthapuram | Kochi | Kozhikode | Total | Thiruvananthapuram | Kochi | Kozhikode | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 1986-87 | -- | 70672 | 59038 | 129710 | -- | 68332 | 61307 | 129639 | |
| 1987-88 | -- | 91548 | 79247 | 170795 | -- | 81149 | 67929 | 149078 | |
| 1988-89 | -- | 145361 | 115062 | 260423 | -- | 122943 | 84738 | 207681 | |
| 1989-90 | -- | 153387 | 132818 | 286205 | -- | 162949 | 15449 | 317398 | |
| 1990-91 | -- | 125264 | 100249 | 225513 | -- | 128834 | 110028 | 238862 | |
| 1991-92 | 34319 | 304523 | 228965 | 567807 | 3200 | 153134 | 119427 | 275761 | |
| 1992-93 | 156653 | N.A. | 206917 | -- | 116737 | N.A. | 341000 | -- | |
| 1993-94 | 117630 | 122473 | 201146 | 441249 | 174493 | 136832 | 286744 | 598069 | |
| 1994-95 | 92014 | 90341 | N.A. | -- | 89319 | 93296 | N.A. | -- | |
| 1995-96 | 85854 | 78416 | 134943 | 299213 | 81158 | 77088 | 130976 | 289222 | |
| 1996-97 | 79908 | 90593 | 142243 | 312744 | 75421 | 88395 | 134262 | 298078 | |

Note : Thiruvananthapuram Passport Office was upgraded as a full fledged office on 10-1-1992.

Source : Passport Offices Thiruvananthapuram, Kochi and Kozhikode.

5/84

Appendix - 7.27

Growth of Postal Offices in Kerala during the last ten years

| Sl No. | Category | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|------------------------|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Postal Services | | | | | | | | | | | |
| 1. | Head Post Offices | 50 | 50 | 50 | 50 | 51 | 51 | 51 | 51 | 51 | 51 |
| 2. | Sub Office (Departmental & Extra Departmental) | 1959 | 1959 | 1959 | 1959 | 1956 | 1956 | 1958 | 1957 | 1968 | 1970 |
| 3. | Branch Offices together with speed post centres | 2759 | 2759 | 2838 | 2881 | 2957 | 2988 | 3017 | 3018 | 3008 | 3011 |
| | Total | 4768 | 4768 | 4847 | 4890 | 4964 | 4995 | 5026 | 5026 | 5027 | 5032 |

Source : CPMG Kerala Circle, Thiruvananthapuram.

Category-wise Offices in Postal and Other Postal Services in Kerala

| Category of office | As on 1st April | |
|----------------------------------|-----------------|-------------|
| | 1996 | 1997 |
| 1 | 2 | 3 |
| A. Postal Services | | |
| 1. Head Post Offices | 51 | 51 |
| 2. Sub Post Offices | | |
| Departemntel | 1439 | 1450 |
| Extra Departmental | 529 | 524 |
| 3. Branch Offices | 3008 | 3007 |
| Total (a) | 5027 | 5032 |
| B. Speed Post Centres | 7 | 7 |
| C. Other Postal Services | | |
| 1. Railway Mail Services Offices | | |
| i. Head Record Office | 3 | 3 |
| ii. Sorting Mail Office | 28 | 28 |
| iii. Sub Record Office | 23 | 23 |
| iv. Trenstist Mail Office | 9 | 9 |
| v. R.M.S. Sections | 18 | 18 |
| vi. Press sorting office | 2 | 2 |
| vii. Parcel Sorting Office | 3 | 3 |
| Total (1) | 86 | 86 |
| 2. Mail Motor Service Division | 1 | 1 |
| Mail Motor Service Unit | 4 | 4 |
| 3. Central Stamp Depot | 1 | 1 |
| Total | 92 | 92 |

Source : CPMG Kerala Circle, Thiruvananthapuram

Division-Wise and Category-wise Post Offices in Kerala as on 1.4.1997.

| Sl. No. | Name of division | Head Offices | Departmental | Sub offices Extra Departmental | Branch Offices | Mobile Post Offices | Total |
|--------------|------------------------|--------------|--------------|--------------------------------|----------------|---------------------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Thiruvananthapuram (s) | 2 | 69 | 15 | 134 | -- | 220 |
| 2. | Thiruvananthapuram (N) | 2 | 77 | 8 | 111 | -- | 198 |
| 3. | Kollam | 3 | 90 | 28 | 121 | -- | 242 |
| 4. | Pathanamthitta | 3 | 79 | 48 | 176 | -- | 306 |
| 5. | Tiruvalla | 2 | 63 | 30 | 61 | -- | 156 |
| 6. | Mavelikara | 2 | 51 | 23 | 47 | -- | 123 |
| 7. | Alleppey | 2 | 48 | 30 | 44 | -- | 124 |
| 8. | Kottayam | 3 | 79 | 44 | 130 | -- | 256 |
| 9. | Changanachery | 2 | 48 | 12 | 104 | -- | 166 |
| 10. | Idukki | 2 | 52 | 13 | 230 | -- | 297 |
| 11. | Ernakulam | 2 | 73 | 5 | 58 | -- | 138 |
| 12. | Alwaye | 3 | 68 | 33 | 140 | -- | 244 |
| 13. | Irinjalakuda | 2 | 61 | 22 | 108 | -- | 193 |
| 14. | Trichur | 3 | 106 | 32 | 155 | -- | 296 |
| 15. | Ottappalam | 1 | 54 | 21 | 142 | -- | 218 |
| 16. | Palghat | 3 | 86 | 20 | 123 | -- | 232 |
| 17. | Triur | 2 | 53 | 21 | 96 | -- | 172 |
| 18. | Manjeri | 2 | 45 | 21 | 191 | -- | 259 |
| 19. | Kozhikode | 3 | 74 | 14 | 216 | -- | 307 |
| 20. | Badagara | 2 | 40 | 35 | 144 | -- | 221 |
| 21. | Tellicherry | 1 | 43 | 8 | 156 | -- | 208 |
| 22. | Kannur | 2 | 61 | 25 | 139 | -- | 227 |
| 23. | Kasargod | 2 | 30 | 16 | 181 | -- | 229 |
| Total | | 51 | 1450 | 524 | 3007 | | 5032 |

Source : CPMG Kerala Circle, Thiruvananthapuram.

District-wise Details of Area and Population served by one post office during 1996-1997.

| Sl. No. | Name of division | Post Office (Nos) | Area (Sq.Kms) | Area served by one post office (Sq.kms) | Projected population for the year 1997 | Population served by one post post |
|--------------|--------------------|-------------------|---------------|-----------------------------------------|----------------------------------------|------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Thiruvananthapuram | 418 | 2192 | 5.24 | 3193530 | 7640 |
| 2. | Kollam | 360 | 2491 | 6.92 | 2565817 | 7127 |
| 3. | Pathanamthitta | 311 | 2642 | 8.50 | 1228823 | 3951 |
| 4. | Alapuzha | 290 | 1414 | 4.87 | 2090236 | 7208 |
| 5. | Kottayam | 409 | 2203 | 5.39 | 1914475 | 4681 |
| 6. | Idukki | 300 | 5019 | 16.73 | 1153826 | 3846 |
| 7. | Ernakulam | 382 | 2407 | 6.30 | 3010506 | 7881 |
| 8. | Thrissur | 489 | 3032 | 6.20 | 2943894 | 6020 |
| 9. | Palghat | 450 | 4480 | 9.96 | 2628332 | 5841 |
| 10. | Malappuram | 431 | 3550 | 8.24 | 3672911 | 8522 |
| 11. | Kozhikode | 419 | 2344 | 5.59 | 2893497 | 6906 |
| 12. | Wayanadu | 161 | 2131 | 13.24 | 762821 | 4738 |
| 13. | Kannur | 378 | 2966 | 7.85 | 2485955 | 6577 |
| 14. | Kasargod | 234 | 1992 | 8.51 | 1226560 | 5242 |
| Total | | 5032 | 38863 | 7.72 | 31771183 | 6314 |

Source : CPMG Kerala Circle, Thiruvananthapuram.

Appendix - 7.31

Foreign Tourist Arrivals to India and Kerala

| Year | Number of foreign tourists | | Percentage Variation over the previous year | | Share of Kerala in Indian Tourist Market |
|------|----------------------------|---------|---------------------------------------------|--------|------------------------------------------|
| | India | Kerala | India | Kerala | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1990 | 1329950 | 66139 | -0.54 | 5.08 | 4.97 |
| 1991 | 1236120 | 69309 | -7.06 | 4.79 | 5.61 |
| 1992 | 1434737 | 90635 | 16.08 | 30.76 | 6.32 |
| 1993 | 1442643 | 95209 | 0.55 | 5.05 | 6.60 |
| 1994 | 1562016 | 104568 | 8.27 | 9.83 | 6.69 |
| 1995 | 2123633 | 142972 | 35.96 | 36.73 | 6.73 |
| 1996 | 2287860 | 158865* | 7.73 | 11.12 | 6.94 |

Source : Department of Tourism Govt. of Kerala.

Appendix - 7.32

Domestic Tourist Arrivals to Kerala 1990 to 1996

| Year | Number of Tourists | Percentage variation over the previous year |
|------|--------------------|---------------------------------------------|
| 1 | 2 | 3 |
| 1990 | 866525 | 36.65 |
| 1991 | 948991 | 9.52 |
| 1992 | 994140 | 4.76 |
| 1993 | 1027236 | 3.33 |
| 1994 | 1284375 | 25.03 |
| 1995 | 3857603 | 200.35 |
| 1996 | 4365368* | 13.16 |

*Provisional

Source : Department of Tourism, Govt. of Kerala.

Appendix - 7.33

Earnings from Foreign Tourists from 1990 to 1996

| Year | Earnings (Rs. in crores) |
|------|--------------------------|
| 1990 | 26.99 |
| 1991 | 28.28 |
| 1992 | 59.75 |
| 1993 | 105.72 |
| 1994 | 116.11 |
| 1995 | 158.76 |
| 1996 | 176.40 |

Source : Department of Tourism, Govt. of Kerala

Appendix - 7.34

Plan expenditure on Tourism of various States in India (1994-95 to 1996-97)

| 1 | 2 | Name of State | Plan Expenditure 1994-95 | | | | Plan Expenditure 1995-96 | | | | 1996-97 (B.E) | | | |
|-----|---|-------------------|--------------------------|------------|------|---------|--------------------------|------------|---------|------|---------------|------------|---|--|
| | | | Total | On Tourism | % | | Total | On Tourism | % | | Total | On Tourism | % | |
| | | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | |
| 1. | | Andhra Pradesh | 146903 | 101 | 0.07 | 143171 | 120 | 0.08 | 177018 | 120 | 0.07 | | | |
| 2. | | Arunachal Pradesh | 15067 | 77 | 0.51 | 17971 | 54 | 0.30 | 23818 | 77 | 0.32 | | | |
| 3. | | Assam | 85989 | 122 | 0.14 | 126617 | 324 | 0.26 | 128030 | 421 | 0.33 | | | |
| 4. | | Bihar | 122135 | 10 | 0.10 | 100143 | 6 | 0.01 | 113992 | 32 | 0.03 | | | |
| 5. | | Goa | 7034 | 101 | 1.44 | 8665 | 120 | 1.38 | 9376 | 135 | 1.44 | | | |
| 6. | | Gujarat | 82545 | 190 | 0.23 | 104525 | 199 | 0.19 | 112310 | 349 | 0.31 | | | |
| 7. | | Haryana | 57798 | 50 | 0.09 | 73278 | - | - | 78534 | - | - | | | |
| 8. | | Himachal Pradesh | 43871 | 202 | 0.46 | 51763 | 284 | 0.51 | 61572 | 269 | 0.44 | | | |
| 9. | | Jammu & Kashmir * | (R.E) | | | | | | | | | | | |
| | | | 30792 | 180 | 0.58 | 39589 | 324 | 0.82 | 32211 | 351 | 1.09 | | | |
| 10. | | Karnataka | 180390 | 558 | 0.31 | 233372 | 825 | 0.35 | 319191 | 1600 | 0.50 | | | |
| 11. | | Kerala | 76138 | 396 | 0.52 | 100083 | 881 | 0.88 | 135964 | 1737 | 1.28 | | | |
| 12. | | Madhyapradesh | 175903 | 172 | 0.10 | 264016 | 157 | 0.06 | 286973 | 131 | 0.05 | | | |
| 13. | | Maharashtra | 206005 | 364 | 0.18 | 308814 | 471 | 0.15 | 374705 | 653 | 0.17 | | | |
| 14. | | Manipur | 11825 | 45 | 0.38 | 18464 | 55 | 0.30 | 16238 | 57 | 0.35 | | | |
| 15. | | Meghalaya | 9979 | 67 | 0.67 | 20422 | 127 | 0.62 | 21566 | 142 | 0.66 | | | |
| 16. | | Mizoram | 14569 | 50 | 0.34 | 17993 | 129 | 0.72 | 12447 | 39 | 0.31 | | | |
| 17. | | Nagaland | 15588 | 106 | 0.68 | 15071 | 129 | 0.86 | 14085 | 129 | 0.92 | | | |
| 18. | | Orissa | 93266 | 125 | 0.13 | 142048 | 166 | 0.12 | 160250 | 161 | 0.10 | | | |
| 19. | | Punjab | 62186 | 4 | 0.01 | 63834 | 10 | 0.02 | 90126 | 40 | 0.04 | | | |
| 20. | | Rajasthan | 136076 | 402 | 0.30 | 162336 | 420 | 0.26 | 153682 | 357 | 0.23 | | | |
| 21. | | Sikkim | 6624 | 103 | 1.55 | 11854 | 262 | 2.21 | 13513 | 262 | 1.94 | | | |
| 22. | | Tamil Nadu | 178662 | 360 | 0.20 | 183146 | 154 | 0.08 | 202672 | 76 | 0.04 | | | |
| 23. | | Tripura | 22026 | 54 | 0.25 | 29095 | 128 | 0.44 | 31822 | 92 | 0.29 | | | |
| 24. | | Uttar Pradesh | 276354 | 199 | 0.04 | 349494 | 387 | 0.11 | 362650 | 383 | 0.11 | | | |
| 25. | | West Bengal | 114711 | 165 | 0.14 | 156564 | 225 | 0.14 | 178209 | 332 | 0.19 | | | |
| 26. | | Delhi | 41402 | - | - | 61819 | 31 | 0.05 | 82955 | 234 | 0.28 | | | |
| | | All States | 2213838 | 4123 | 0.18 | 2804147 | 5968 | 0.21 | 3193909 | 8179 | 0.26 | | | |

Source : RBI Bulletin 1997 February

Kerala Tourism Development Corporation Ltd.
(Performance 1996-97 Provisional Figures Rs. in Lakhs)

| Name of Units | Bed available | Bed Occupying | Tourist Domestic | Arrival foreign | Total income (Rs.) | Operating Expenditure (Rs.) | Administration Expenditure (Rs.) | Total Expenditure (Rs.) |
|------------------------------------------|---------------|---------------|------------------|-----------------|--------------------|-----------------------------|----------------------------------|-------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Mascot Hotel | 25550 | 38.53 | 4282 | 1992 | 247.81 | 164.38 | 24.78 | 189.16 |
| Hotel Chithram | 64240 | 51.70 | 17537 | 1711 | 238.40 | 199.88 | 23.84 | 223.72 |
| Hotel Samudra | 35782 | 58.32 | 1438 | 2502 | 289.26 | 117.20 | 28.93 | 146.13 |
| Aranya Nivas | 21900 | 44.76 | 4662 | 5141 | 200.25 | 86.17 | 20.03 | 106.20 |
| Periyer House | 31308 | 54.56 | 12740 | 4343 | 67.76 | 36.02 | 6.78 | 42.80 |
| Bolgetty Palace | 6688 | 59.78 | 5559 | 1568 | 66.20 | 47.06 | 6.62 | 53.68 |
| Garden House | 8802 | 66.75 | 5289 | 46 | 66.22 | 36.17 | 6.62 | 42.79 |
| Hotel Nandanam | 32850 | 48 | 15678 | 65 | 37.82 | 23.13 | 3.78 | 31.91 |
| Mangalya | 13140 | 44.5 | 6084 | -- | 60.51 | 48.09 | 6.05 | 54.14 |
| Hotel Aiswarya | 19056 | 53.76 | 9831 | 413 | 58.38 | 48.36 | 5.84 | 54.20 |
| Malabar Mansion | 19666 | 35.85 | 2691 | 223 | 96.23 | 66.55 | 9.62 | 76.17 |
| Yatrinivas Kannur | 21900 | 32.45 | 7091 | 10 | 66.87 | 44.57 | 6.69 | 51.26 |
| Yatrinivas Trichur | 20499 | 37.61 | 4161 | 101 | 66.49 | 45.29 | 6.65 | 51.94 |
| Yetrinivas Kollam | 13140 | 55.55 | 158 | 392 | 35.41 | 26.40 | 3.54 | 29.94 |
| Motel Araam. Kannoor | 1460 | 29.4 | 427 | 2 | 75.42 | 45.06 | 7.54 | 52.60 |
| M A Palakkad | 1460 | 68.76 | 998 | -- | 41.58 | 25.67 | 4.16 | 29.83 |
| M A Sulthan Battery | 730 | 10.47 | 153 | 2 | 22.04 | 15.80 | 2.20 | 18.00 |
| M A Alleppey | 1460 | 15 | 165 | 37 | 42.98 | 27.86 | 4.30 | 32.16 |
| M A Kayamkulam | 1460 | 16.45 | 221 | 89 | 56.94 | 38.97 | 5.69 | 44.66 |
| M A Kottarakkara | 1460 | 39.04 | 570 | -- | 53.64 | 35.56 | 5.36 | 40.92 |
| M A Thalappady | 3650 | 8.73 | 357 | 10 | 15.56 | 12.49 | 1.56 | 14.05 |
| Beer Parlour, Restaurant, Tour Operation | -- | -- | -- | -- | 1653.89 | 1239.42 | 632.38 | 1871.80 |
| Total | 346201 | -- | 95090 | 18647 | 3559.44 | 2435.10 | 822.96 | 3258.06 |

Source : Kerala Tourism Development Corporation Ltd.

Appendix 8.1

Commodity-wise Exports through Kochi Port

(Qty in MT)

| Commodity | 1994-95 | | | 1995-96 | | | 1996-97 | | |
|----------------|----------------|------------|---------------|----------------|------------|---------------|----------------|------------|---------------|
| | Qty | % to total | Growth rate % | Qty | % to total | Growth rate % | Qty | % to total | Growth rate % |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Tea | 57897 | 4.0 | 84.34 | 71647 | 3.0 | 23.75 | 75666 | 3.3 | 5.61 |
| Cashew Kernels | 39762 | 2.7 | 12.73 | 37392 | 1.6 | -5.76 | 45783 | 2.0 | 22.44 |
| Seafoods | 86135 | 6.0 | 6.10 | 83724 | 3.5 | -2.80 | 100678 | 4.4 | 20.25 |
| Coir products | 43972 | 3.0 | 48.00 | 45200 | 1.9 | 2.79 | 44512 | 1.9 | -1.52 |
| Spices | 39283 | 2.7 | 18.83 | 31296 | 1.3 | -20.33 | 54364 | 2.4 | 73.79 |
| Coffee | 86629 | 6.0 | 43.59 | 114036 | 4.8 | 31.64 | 122455 | 5.4 | 7.38 |
| Miscellaneous | 1084454 | 75.6 | 10.34 | 1994256 | 83.9 | 83.89 | 1811306 | 80.6 | -9.17 |
| TOTAL | 1438132 | 100 | 13.32 | 2377551 | 100 | 65.32 | 2254764 | 100 | -5.16 |

S190

Source : Kochi Port Trust

Appendix 8.2

Commodity-wise Imports through Kochi Port

| Commodity | 1994-95 | | | 1995-96 | | | 1996-97 | | |
|-----------------------------|----------------|------------|---------------|----------------|------------|---------------|----------------|------------|---------------|
| | Qty | % to total | Growth rate % | Qty | % to total | Growth rate % | Qty | % to total | Growth rate % |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Fertilizers & raw materials | 911676 | 12.67 | 22.61 | 996028 | 10.91 | 9.25 | 978749 | 10.32 | -1.73 |
| Foodgrains | 22235 | 0.31 | 292.98 | 4443 | 0.05 | -80.02 | 27300 | 0.29 | 514.00 |
| Iron, Steel & Machinery | 4438 | 0.06 | -0.18 | 23851 | 0.26 | 437.43 | 60433 | 0.64 | 153.00 |
| Newsprint | 19631 | 0.27 | 58.48 | 43936 | 0.48 | 123.81 | 53606 | 0.56 | 22.00 |
| Cashnut | 5480 | 0.08 | -82.41 | 10060 | 0.11 | 83.58 | 58055 | 0.61 | 477.00 |
| Miscellaneous* | 6229806 | 86.61 | 12.17 | 8046897 | 88.19 | 29.17 | 8309293 | 87.58 | 3.26 |
| TOTAL | 7193266 | 100 | 13.26 | 9125215 | 100 | 26.86 | 9487436 | 100 | 3.97 |

* Includes P.O.L

Source : Kochi Port Trust

Appendix 8.3
Export of Marine Products from India and Kerala

(Quantity M.T / Value Rs. crore)

| Year | India | | Kerala | | Kerala's share (%) | | |
|---------|----------|---------|----------|--------|--------------------|-------|-------|
| | Quantity | Value | Quantity | Value | Quantity | Value | Value |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 7 |
| 1990-91 | 139419 | 893.37 | 50997 | 313.49 | 36.58 | 35.09 | 35.09 |
| 1991-92 | 171820 | 1375.89 | 58743 | 444.47 | 34.19 | 32.03 | 32.03 |
| 1992-93 | 209025 | 1768.56 | 49094 | 414.25 | 23.49 | 23.42 | 23.42 |
| 1993-94 | 243960 | 2503.62 | 63848 | 622.12 | 26.17 | 24.85 | 24.85 |
| 1994-95 | 307337 | 3573.27 | 74653 | 817.09 | 24.29 | 22.85 | 22.85 |
| 1995-96 | 296277 | 3501.11 | 78895 | 856.90 | 26.63 | 24.48 | 24.48 |
| 1996-97 | 378199 | 4121.36 | 92288 | 936.22 | 24.40 | 22.72 | 22.72 |

Source : Marine Products Export Development Authority

Appendix 8.4
Item-wise Export of Marine Products from India

(Quantity M.T / Value Rs. crore)

| Sl. | Item | 1995-96 | | | | 1996-97 | | | |
|--------------|--------------------|--------------|------------|---------------|------------|--------------|------------|---------------|------------|
| | | Quantity | % | Value | % | Quantity | % | Value | % |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Frozen shrimp | 32724 | 41.5 | 498.53 | 57.1 | 34800 | 37.8 | 569.31 | 60.8 |
| 2. | Frozen fish | 7222 | 9.2 | 30.15 | 3.5 | 20982 | 22.8 | 70.68 | 7.5 |
| 3. | Frozen squid | 18669 | 23.7 | 144.96 | 16.6 | 15803 | 17.1 | 119.21 | 12.7 |
| 4. | Frozen cuttle fish | 16582 | 21.0 | 142.25 | 16.3 | 15098 | 16.4 | 144.47 | 15.4 |
| 5. | Live items | -27 | 0 | 0.57 | 0.1 | 118 | 0.1 | 2.80 | 0.3 |
| 6. | Dried items | 273 | 0.3 | 1.29 | 0.1 | 632 | 0.7 | 5.87 | 0.6 |
| 7. | Others | 3399 | 4.3 | 55.15 | 6.3 | 4750 | 5.1 | 28.10 | 3.0 |
| Total | | 78896 | 100 | 872.90 | 100 | 92183 | 100 | 936.22 | 100 |

Source : Marine Products Export Development Authority

Appendix 8.5
Marketwise Export of Marine Products from India

(Quantity M.T / Value Rs. crore)

| Sl. | Market | 1995-96 | | | | 1996-97 | | | |
|-----|--------------|---------------|------------|----------------|------------|---------------|------------|----------------|------------|
| | | Quantity | % | Value | % | Quantity | % | Value | % |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Japan | 51789 | 17.5 | 1576.69 | 45.0 | 64656 | 17.1 | 1886.04 | 45.8 |
| 2. | U.S.A | 26008 | 8.8 | 366.26 | 10.5 | 29792 | 7.9 | 436.05 | 10.6 |
| 3. | West Europe | 87212 | 29.4 | 911.87 | 26.1 | 71236 | 18.8 | 790.69 | 19.2 |
| 4. | Middle East | 8715 | 2.9 | 77.11 | 2.2 | 9879 | 2.6 | 64.15 | 1.6 |
| 5. | S.E. Asia | 112504 | 38.0 | 501.03 | 14.3 | 197405 | 52.2 | 879.23 | 21.3 |
| 6. | Others | 10049 | 3.4 | 68.15 | 1.9 | 5231 | 1.4 | 64.30 | 1.5 |
| | Total | 296277 | 100 | 3501.11 | 100 | 378199 | 100 | 4121.36 | 100 |

Source : Marine Products Export Development Authority

Appendix 8.6
Export of Spices from India and Kerala during 1996-97

(Quantity M.T / Value Rs. crore)

| Item | India | | Kerala | | Keala's share (%) | |
|-----------------------------|---------------|----------------|-----------------|---------------|-------------------|--------------|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Pepper | 4770 | 416.52 | 46264.22 | 405.17 | 96.8 | 97.3 |
| Cardamon (Small & large) | 1694 | 19.68 | 52.50 | 2.45 | 3.1 | 12.4 |
| Chillies | 51900 | 209.64 | 3611.42 | 18.47 | 0.4 | 8.8 |
| Ginger | 28350 | 57.24 | 4905.17 | 25.93 | 17.3 | 45.3 |
| Turmeric | 21600 | 54.71 | 2832.47 | 10.62 | 13.1 | 19.4 |
| Coriander | 12700 | 30.81 | 88.72 | 0.43 | 1.9 | 1.4 |
| Fenugreek | 8100 | 10.74 | 154.33 | 0.33 | 1.4 | 3.1 |
| Curry powder | 4250 | 18.23 | 635.22 | 3.73 | 14.9 | 20.5 |
| Spice oil and Olioresin | 2020 | 155.67 | 1358.70 | 98.33 | 67.3 | 63.2 |
| Others | 41020 | 206.76 | 880.20 | 3.77 | 2.14 | 1.82 |
| Total | 219400 | 1180.00 | 60782.92 | 569.23 | 27.75 | 48.24 |

Source : Spices Board, Kochi

Appendix 8.8

**Import of Raw Cashewnut:Kerala and India
(1990-91 to 1996-97)**

(Quantity M.T / Value Rs. crore)

| Year | Cochin Port | | India | |
|---------|-------------|--------|----------|--------|
| | Quantity | Value | Quantity | Value |
| 1 | 2 | 3 | 4 | 5 |
| 1990-91 | 4898 | 7.72 | 82639 | 134.00 |
| 1991-92 | 1774 | 4.21 | 106080 | 266.68 |
| 1992-93 | 11051 | 39.04 | 134985 | 376.33 |
| 1993-94 | 20821 | 52.56 | 191322 | 482.70 |
| 1994-95 | 5576 | 15.34 | 228109 | 690.94 |
| 1995-96 | 6292 | 19.13 | 222819 | 760.08 |
| 1996-97 | 49169 | 159.76 | 192285 | 640.58 |

Source : Cashew Export Promotion Council

Appendix 8.7

**Export of Cashewnut Shell Liquid:Kerala and India
(1990-91 to 1996-97)**

(Quantity M.T, Value Rs. crore)

| Year | Cochin Port | | India | |
|---------|-------------|-------|----------|-------|
| | Quantity | Value | Quantity | Value |
| 1 | 2 | 3 | 4 | 5 |
| 1990-91 | 2490 | 1.64 | 5658 | 5.56 |
| 1991-92 | 2755 | 2.15 | 4542 | 4.02 |
| 1992-93 | 2628 | 2.20 | 4258 | 3.81 |
| 1993-94 | 2432 | 1.76 | 3625 | 2.90 |
| 1994-95 | 1990 | 1.21 | 3807 | 2.44 |
| 1995-96 | 80 | 0.15 | 760 | 1.45 |
| 1996-97 | 814 | 0.78 | 1350 | 1.99 |

Source : Cashew Export Promotion Council

Appendix 8.9
Leading Export Markets for Coir Products during 1996-97

| Sl. No. | Countries | Value of Exports (Rs. lakhs) | Share % |
|--------------|----------------|---------------------------------|---------------|
| 1. | U.S.A. | 3894 | 18.3 |
| 2. | United Kingdom | 2782 | 13.1 |
| 3. | Netherlands | 2580 | 12.1 |
| 4. | Germany | 1781 | 8.4 |
| 5. | Italy | 1405 | 8.6 |
| 6. | France | 1413 | 6.6 |
| 7. | Australia | 1226 | 5.8 |
| 8. | Belgium | 1215 | 5.7 |
| 9. | Others | 4962 | 23.4 |
| Total | | 21258 | 100.00 |

Source : Coir Board

Appendix - 9.1

District-wise Population Profile 1991

| Sl. No. | District | Area K.M ² | Population | Sex ratio | Growth rate 1981-91 | Density per K.M ² | Effective Literacy rate | | |
|---------|--------------------|-----------------------|------------|-----------|---------------------|------------------------------|-------------------------|-------|--------|
| | | | | | | | Total | Male | Female |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| | Kerala | | | | | | | | |
| 1. | Kasaragode | 38863 | 29098518 | 1036 | 14.32 | 749 | 89.81 | 93.62 | 86.17 |
| 2. | Kannur | 1992 | 1071508 | 1026 | 22.78 | 538 | 82.51 | 88.97 | 76.29 |
| 3. | Wayanad | 2966 | 2251727 | 1049 | 16.63 | 759 | 91.48 | 95.54 | 87.65 |
| 4. | Kozhikode | 2131 | 672128 | 966 | 21.32 | 315 | 82.73 | 87.59 | 77.69 |
| 5. | Malappuram | 2344 | 2619941 | 1027 | 16.69 | 1118 | 91.10 | 95.58 | 86.79 |
| 6. | Palakkad | 3550 | 3096330 | 1053 | 28.87 | 872 | 87.94 | 92.08 | 84.09 |
| 7. | Thrissur | 4480 | 2382235 | 1061 | 16.52 | 532 | 81.27 | 87.24 | 75.72 |
| 8. | Ernakulam | 3032 | 2737311 | 1085 | 12.20 | 903 | 90.13 | 93.77 | 86.94 |
| 9. | Idukki | 2407 | 2817236 | 1000 | 11.12 | 1170 | 92.35 | 95.46 | 89.27 |
| 10. | Kottayam | 5019 | 1078066 | 975 | 11.22 | 215 | 86.94 | 90.82 | 82.96 |
| 11. | Alappuzha | 2203 | 1828271 | 1003 | 7.71 | 830 | 95.72 | 97.46 | 94.00 |
| 12. | Pathanamthitta | 1414 | 2001217 | 1051 | 7.28 | 1415 | 93.87 | 96.79 | 91.12 |
| 13. | Kollam | 2642 | 1188332 | 1062 | 5.60 | 450 | 94.86 | 96.55 | 93.29 |
| 14. | Thiruvananthapuram | 2491 | 2407566 | 1035 | 10.68 | 967 | 90.47 | 94.09 | 87.00 |
| | | 2192 | 2946650 | 1036 | 13.50 | 1344 | 89.22 | 92.84 | 85.76 |

Source : Census of India 1991 - Kerala - Final Population Totals.

Appendix - 9.2

Trend in Literacy - India and Kerala

| Year | India | | | Kerala | | |
|------|------------------|-------|--------|------------------|-------|--------|
| | Rate of Literacy | | | Rate of Literacy | | |
| | Total | Male | Female | Total | Male | Female |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1901 | 5.35 | 9.83 | 0.60 | 11.14 | 19.15 | 3.15 |
| 1911 | 5.92 | 10.56 | 1.05 | 13.31 | 22.25 | 4.43 |
| 1921 | 7.16 | 12.21 | 1.81 | 19.20 | 27.88 | 10.26 |
| 1931 | 9.50 | 15.59 | 2.93 | 21.34 | 30.89 | 11.00 |
| 1941 | 16.10 | 24.90 | 7.30 | -- | -- | -- |
| 1951 | 16.67 | 24.95 | 7.93 | 40.47 | 49.79 | 31.41 |
| 1961 | 24.02 | 34.44 | 12.95 | 56.85 | 54.97 | 38.90 |
| 1971 | 29.45 | 39.45 | 18.88 | 60.42 | 66.52 | 54.31 |
| 1981 | 36.03 | 46.62 | 24.73 | 70.42 | 87.74 | 75.65 |
| 1991 | 52.21 | 64.13 | 39.29 | 89.81 | 93.62 | 86.17 |

Source : Census of India and Kerala Various Decadal Volumes

Appendix - 9.3
Literacy Rates-1991

| Sl. No. | State/Union Territory | General | | | Scheduled Castes | | | Scheduled Tribes | | |
|---------|-----------------------|---------|-------|--------|------------------|-------|--------|------------------|-------|--------|
| | | Person | Mala | Female | Person | Mala | Female | Person | Mala | Female |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Andhra Pradesh | 44.09 | 55.13 | 32.72 | 31.59 | 41.88 | 20.92 | 17.16 | 25.25 | 8.68 |
| 2. | Arunachal Pradesh | 41.59 | 51.45 | 29.69 | 57.27 | 66.25 | 41.42 | 34.45 | 44.00 | 24.94 |
| 3. | Assam | 52.89 | 61.87 | 43.03 | 53.94 | 63.88 | 42.99 | 49.16 | 58.93 | 38.98 |
| 4. | Bihar | 38.48 | 52.49 | 22.89 | 19.49 | 30.64 | 7.07 | 26.78 | 38.40 | 14.75 |
| 5. | Goa | 75.51 | 83.64 | 67.09 | 58.73 | 69.55 | 47.51 | 42.91 | 54.43 | 29.01 |
| 6. | Gujarat | 61.29 | 73.13 | 48.64 | 61.07 | 75.47 | 45.54 | 38.45 | 48.25 | 24.20 |
| 7. | Haryana | 55.85 | 69.10 | 40.47 | 39.22 | 52.06 | 24.15 | -- | -- | -- |
| 8. | Himachal Pradesh | 63.86 | 75.36 | 52.17 | 53.20 | 64.98 | 41.02 | 47.09 | 62.74 | 31.18 |
| 9. | Jammu & Kashmir | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10. | Karnataka | 56.04 | 67.26 | 44.34 | 38.06 | 49.69 | 25.95 | 36.01 | 47.95 | 23.57 |
| 11. | Kerala | 89.81 | 93.62 | 86.17 | 79.66 | 85.22 | 74.31 | 57.22 | 63.68 | 51.07 |
| 12. | Madhya Pradesh | 44.20 | 58.42 | 28.85 | 35.08 | 50.51 | 18.11 | 21.54 | 32.16 | 10.73 |
| 13. | Maharashtra | 64.87 | 76.56 | 52.32 | 56.46 | 70.45 | 41.59 | 36.79 | 49.09 | 24.03 |
| 14. | Manipur | 59.89 | 71.63 | 47.60 | 56.44 | 65.28 | 47.41 | 53.63 | 62.39 | 44.48 |
| 15. | Meghalaya | 49.10 | 53.12 | 44.85 | 44.27 | 54.56 | 31.19 | 46.71 | 49.78 | 43.63 |
| 16. | Mizoram | 82.27 | 85.61 | 78.60 | 77.92 | 77.54 | 81.25 | 82.71 | 86.66 | 78.70 |
| 17. | Nagaland | 61.65 | 67.62 | 54.75 | -- | -- | -- | 60.59 | 66.27 | 54.51 |
| 18. | Orissa | 49.09 | 63.09 | 34.68 | 36.78 | 52.42 | 20.74 | 22.31 | 34.44 | 10.21 |
| 19. | Punjab | 58.51 | 65.66 | 50.41 | 41.09 | 49.82 | 31.03 | -- | -- | -- |
| 20. | Rajasthan | 38.55 | 54.99 | 20.44 | 26.29 | 42.38 | 8.31 | 19.44 | 33.29 | 4.42 |
| 21. | Sikkim | 56.94 | 65.74 | 46.69 | 51.03 | 58.69 | 42.77 | 59.01 | 66.80 | 50.37 |
| 22. | Tamil Nadu | 62.66 | 73.75 | 51.33 | 46.74 | 58.36 | 34.89 | 27.89 | 35.25 | 20.23 |
| 23. | Tripura | 60.44 | 70.58 | 49.65 | 56.66 | 67.25 | 45.45 | 40.37 | 52.88 | 27.34 |
| 24. | Uttar Pradesh | 41.60 | 55.73 | 25.31 | 26.85 | 40.80 | 10.69 | 35.70 | 49.95 | 19.86 |
| 25. | West Bengal | 57.70 | 67.81 | 46.56 | 42.21 | 54.55 | 28.87 | 27.78 | 40.07 | 14.98 |
| 26. | A & N Islands | 73.02 | 78.99 | 65.46 | -- | -- | -- | 56.82 | 64.16 | 48.74 |
| 27. | Chandigarh | 77.81 | 82.04 | 72.34 | 55.44 | 64.74 | 43.54 | -- | -- | -- |
| 28. | D & N Haveli | 40.71 | 53.56 | 26.98 | 77.64 | 88.03 | 66.61 | 28.21 | 40.75 | 15.94 |
| 29. | Daman & Diu | 71.20 | 82.66 | 59.40 | 79.18 | 91.85 | 67.62 | 52.91 | 63.58 | 41.49 |
| 30. | Delhi | 75.29 | 82.01 | 66.99 | 57.60 | 68.77 | 43.82 | -- | -- | -- |
| 31. | Lakshadweep | 81.78 | 90.18 | 72.89 | -- | -- | -- | 80.58 | 89.50 | 71.72 |
| 32. | Pondicherry | 74.74 | 83.68 | 65.63 | 56.26 | 66.10 | 46.28 | -- | -- | -- |
| | INDIA | 52.21 | 64.13 | 39.29 | 37.41 | 49.91 | 23.76 | 29.60 | 40.65 | 18.19 |

Source: Census of India 1991 Final Population Total (Paper 2 of 1992)

Census was not held in J & K

Major State-wise Literacy Rates

| Sl. No. | Major States | Persons | | | | | | Male | | | | | | Female | | | | | |
|---------|----------------|---------|------|------|------|------|------|------|------|------|------|------|------|--------|------|------|--|--|--|
| | | 1951 | 1961 | 1971 | 1981 | 1991 | 1951 | 1961 | 1971 | 1981 | 1991 | 1951 | 1961 | 1971 | 1981 | 1991 | | | |
| 1. | Kerala | 11 | 55 | 50 | 82 | 91 | 50 | 65 | 67 | 88 | 94 | 32 | 46 | 54 | 76 | 87 | | | |
| 2. | Tamil Nadu | 21 | 36 | 39 | 54 | 64 | 32 | 52 | 52 | 68 | 75 | 10 | 21 | 27 | 40 | 52 | | | |
| 3. | Maharashtra | 21 | 35 | 39 | 56 | 63 | 31 | 49 | 51 | 70 | 75 | 10 | 20 | 26 | 41 | 51 | | | |
| 4. | Gujarat | 23 | 36 | 36 | 52 | 61 | 32 | 49 | 46 | 65 | 73 | 13 | 23 | 25 | 38 | 49 | | | |
| 5. | West Bengal | 24 | 35 | 33 | 49 | 58 | 34 | 47 | 43 | 60 | 67 | 12 | 20 | 22 | 36 | 47 | | | |
| 6. | Punjab | 15 | 32 | 34 | 48 | 57 | 21 | 41 | 40 | 56 | 64 | 9 | 21 | 26 | 40 | 50 | | | |
| 7. | Karnataka | 19 | 30 | 32 | 46 | 58 | 29 | 42 | 42 | 59 | 67 | 9 | 17 | 21 | 33 | 44 | | | |
| 8. | Haryana | -- | 24 | 27 | 44 | 55 | -- | 35 | 37 | 58 | 68 | -- | 11 | 15 | 27 | 41 | | | |
| 9. | Assam | 18 | 33 | 29 | -- | 53 | 27 | 44 | 37 | -- | 62 | 8 | 20 | 19 | -- | 44 | | | |
| 10. | Orissa | 16 | 25 | 26 | 41 | 49 | 27 | 40 | 38 | 56 | 62 | 5 | 10 | 14 | 25 | 34 | | | |
| 11. | Andhra Pradesh | 13 | 25 | 25 | 36 | 45 | 20 | 35 | 33 | 47 | 56 | 7 | 14 | 16 | 24 | 34 | | | |
| 12. | Madhya Pradesh | 11 | 21 | 22 | 33 | 42 | 17 | 32 | 32 | 47 | 55 | 4 | 8 | 11 | 17 | 26 | | | |
| 13. | Uttar Pradesh | 11 | 21 | 22 | 33 | 42 | 17 | 32 | 32 | 47 | 55 | 4 | 8 | 11 | 17 | 26 | | | |
| 14. | Rajasthan | 9 | 18 | 19 | 30 | 39 | 14 | 28 | 29 | 45 | 55 | 3 | 7 | 8 | 14 | 25 | | | |
| 15. | Bihar | 12 | 22 | 20 | 32 | 39 | 21 | 35 | 31 | 47 | 53 | 4 | 8 | 9 | 17 | 23 | | | |
| | All India | 17 | 28 | 29 | 44 | 52 | 25 | 40 | 39 | 56 | 64 | 8 | 15 | 19 | 30 | 39 | | | |

For 1981 and 1991 data related to population aged seven years and above, for 1981 population aged 5 years and above and for 1951 and 1971 it related to literate as percent of total population

Appendix - 9.5
District-wise Literacy Rates of Scheduled Castes and Scheduled Tribes - 1991

| Sl. No. | District | Scheduled Castes | | | Scheduled Tribes | | |
|---------|--------------------|------------------|--------|-------|------------------|--------|-------|
| | | Male | Female | Total | Male | Female | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Thiruvananthapuram | 74.97 | 68.02 | 71.41 | 70.57 | 57.98 | 64.10 |
| 2. | Kollam | 74.30 | 65.24 | 69.71 | 58.62 | 47.60 | 53.11 |
| 3. | Pathanamthitta | 79.09 | 73.58 | 76.29 | 70.50 | 61.33 | 65.94 |
| 4. | Alappuzha | 83.02 | 75.89 | 79.42 | 65.97 | 61.10 | 63.53 |
| 5. | Kottayam | 83.08 | 77.00 | 80.03 | 79.88 | 78.05 | 78.96 |
| 6. | Idukki | 69.56 | 55.16 | 62.37 | 57.89 | 49.07 | 53.54 |
| 7. | Ernakulam | 77.43 | 69.45 | 73.42 | 70.75 | 62.42 | 66.72 |
| 8. | Thirissur | 73.77 | 65.54 | 69.55 | 46.53 | 40.70 | 43.57 |
| 9. | Palakkad | 63.32 | 51.07 | 57.05 | 34.31 | 25.10 | 29.75 |
| 10. | Malappuram | 70.72 | 62.37 | 66.49 | 40.80 | 31.49 | 36.09 |
| 11. | Kozhikode | 80.15 | 71.62 | 75.85 | 48.42 | 40.46 | 44.37 |
| 12. | Wayanad | 70.13 | 58.90 | 64.62 | 48.29 | 36.54 | 42.41 |
| 13. | Kannur | 78.64 | 70.51 | 74.56 | 55.15 | 44.10 | 49.65 |
| 14. | Kasaragod | 59.05 | 47.80 | 53.45 | 63.55 | 49.75 | 56.74 |
| | Kerala | 73.86 | 65.03 | 69.38 | 53.68 | 43.53 | 48.62 |

Source : Census of India - Kerala 1991

Appendix - 9.6

Number of Schools in Kerala - Government Schools

| Year | L.P. Sector | | | U.P. Sector | | |
|---------|--------------------|-----------------------------------------|-----------------------------------------|---------------------|-----------------------------------------|---------------------|
| | L.P. School (2) | L.P. Sections in U.P. Schools (3) | L.P. Sections in High Schools (4) | U.P. Schools (5) | U.P. Sections in High Schools (6) | High Schools (7) |
| 1991-92 | 2565 | 898 | 425 | 960 | 826 | 963 |
| 1992-93 | 2565 | 898 | 425 | 960 | 826 | 963 |
| 1993-94 | 2520 | 898 | 424 | 959 | 828 | 967 |
| 1994-95 | 2520 | 901 | 386 | 958 | 837 | 975 |
| 1995-96 | 2521 | 901 | 406 | 960 | 836 | 976 |
| 1996-97 | 2521 | 8 | 415 | 961 | 667 | 975 |

Note : Besides there are seven schools for the Hano. , 38 T.T.'s in the State in 1997.

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.7

Number of Schools in Kerala - Private Aided Schools

| Year | L.P. Sector | | | U.P. Sector | | |
|---------|---------------------|-----------------------------------------|-----------------------------------------|---------------------|-----------------------------------------|---------------------|
| | L.P. Schools (2) | L.P. Sections in U.P. Schools (3) | L.P. Sections in High Schools (4) | U.P. Schools (5) | U.P. Sections in High Schools (6) | High Schools (7) |
| 1991-92 | 4067 | 1293 | 173 | 1883 | 1034 | 1380 |
| 1992-93 | 4067 | 1293 | 173 | 1883 | 1034 | 1380 |
| 1993-94 | 4045 | 1293 | 169 | 1880 | 1032 | 1379 |
| 1994-95 | 4041 | 1288 | 168 | 1876 | 1034 | 1380 |
| 1995-96 | 4040 | 1287 | 170 | 1875 | 1038 | 1394 |
| 1996-97 | 4039 | 1280 | 184 | 1873 | 985 | 1395 |

S204

Note : Besides there are 5 Anglo-Indian H.S., 23 Schools for the Handicaped, 63 T.T.I's and One Anglo-Indian T.T.I in the State (1996-97).

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.8

Number of Schools in Kerala - Unaided Schools

| Year | L.P. Sector | | | U.P. Sector | | |
|---------|---------------------|-----------------------------------------|-----------------------------------------|---------------------|----------------------------------------|---------------------|
| | L.P. Schools (2) | L.P. Sections in U.P. Schools (3) | L.P. Sections in High Schools (4) | U.P. Schools (5) | U.P. Section in High Schools (6) | High Schools (7) |
| 1991-92 | 151 | 46 | 63 | 92 | 109 | 129 |
| 1992-93 | 147 | 45 | 63 | 88 | 109 | 129 |
| 1993-94 | 137 | 44 | 63 | 80 | 111 | 129 |
| 1994-95 | 133 | 45 | 59 | 78 | 110 | 131 |
| 1995-96 | 167 | 43 | 85 | 129 | 68 | 203 |
| 1996-97 | 166 | 53 | 90 | 134 | 113 | 210 |

S205

Note : Besides there are 3 Anglo-Indian H.S. and 3 schools for the handicapped in the State (1996-97).

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.9

Progress of Educational Institutions from 1961 - 62 to 1996 - 97

| Year | High Schools | U.P. Schools | L.P. Schools | Total |
|---------|--------------|--------------|--------------|-------|
| 1 | 2 | 3 | 4 | 5 |
| 1961-62 | 629 | 1985 | 6745 | 9359 |
| 1962-63 | 1015 | 2285 | 6904 | 10204 |
| 1963-64 | 1020 | 2285 | 6914 | 10219 |
| 1964-65 | 1146 | 2428 | 6930 | 10504 |
| 1965-66 | 1151 | 2447 | 6954 | 10552 |
| 1966-67 | 1278 | 2475 | 6933 | 10684 |
| 1967-68 | 1292 | 2479 | 6940 | 10711 |
| 1968-69 | 1381 | 2535 | 6917 | 10833 |
| 1969-70 | 1382 | 2532 | 6928 | 10842 |
| 1970-71 | 1384 | 2543 | 6895 | 10822 |
| 1971-72 | 1393 | 2551 | 6895 | 10839 |
| 1972-73 | 1399 | 2550 | 6887 | 10786 |
| 1973-74 | 1404 | 2548 | 6904 | 10856 |
| 1974-75 | 1488 | 2588 | 6975 | 11051 |
| 1975-76 | 1521 | 2606 | 6975 | 11102 |
| 1976-77 | 1666 | 2718 | 6995 | 11379 |
| 1977-78 | 1675 | 2718 | 6969 | 11362 |
| 1978-79 | 1680 | 2739 | 6970 | 11389 |
| 1979-80 | 1680 | 2739 | 6970 | 11389 |
| 1980-81 | 1976 | 2753 | 6861 | 11590 |
| 1981-82 | 2075 | 2779 | 5811 | 11665 |
| 1982-83 | 2154 | 2763 | 6817 | 11734 |
| 1983-84 | -- | -- | 6819 | -- |
| 1984-85 | 2397 | 2856 | 6848 | 12101 |
| 1985-86 | 2122 | 2852 | 6396 | 11670 |
| 1986-87 | 2430 | 2884 | 6828 | 12142 |
| 1987-88 | 2431 | 2885 | 6819 | 12135 |
| 1988-89 | -- | -- | 6819 | -- |
| 1989-90 | 2430 | 2892 | 6813 | 12135 |
| 1990-91 | 2452 | 2915 | 6767 | 12134 |
| 1991-92 | 2472 | 2935 | 6783 | 12190 |
| 1992-93 | 2472 | 2931 | 6779 | 12182 |
| 1993-94 | 2475 | 2920 | 6702 | 12097 |
| 1994-95 | 2486 | 2912 | 6694 | 12092 |
| 1995-96 | 2573 | 2964 | 6728 | 12265 |
| 1996-97 | 2580 | 2968 | 6726 | 12274 |

Source : Directorate of Public Instruction, TVM.

Appendix - 9.10

District-wise/Management-wise Number of Schools in Kerala-1997

| Sl. No. | Name of Rev. District | High Schools | | | | | | U.P. Schools | | | | | | L.P. Schools | | | | | | Total |
|---------|-----------------------|--------------|------|-----|------|-----|------|--------------|------|------|------|-----|------|--------------|----|-----|---|------------|--|-------|
| | | G | PA | PUA | T | G | PA | PUA | T | G | PA | PUA | T | G | PA | PUA | T | HS+UPS+LPS | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | | | | | |
| 1. | Thiruvananthapuram | 119 | 94 | 25 | 238 | 99 | 102 | 17 | 218 | 303 | 181 | 16 | 500 | 956 | | | | | | |
| 2. | Kollam | 76 | 125 | 10 | 211 | 62 | 141 | 7 | 210 | 275 | 190 | 17 | 482 | 903 | | | | | | |
| 3. | Pathanamthitta | 47 | 113 | 7 | 167 | 43 | 83 | 15 | 141 | 165 | 243 | 13 | 421 | 729 | | | | | | |
| 4. | Alappuzha | 58 | 125 | 7 | 190 | 67 | 78 | 3 | 148 | 194 | 198 | 13 | 405 | 743 | | | | | | |
| 5. | Kottayam | 59 | 166 | 16 | 241 | 68 | 128 | 8 | 204 | 169 | 275 | 22 | 466 | 911 | | | | | | |
| 6. | Idukki | 54 | 71 | 9 | 134 | 46 | 63 | 4 | 113 | 73 | 140 | 6 | 219 | 466 | | | | | | |
| 7. | Ernakulam | 87 | 172 | 33 | 292 | 88 | 100 | 17 | 205 | 186 | 276 | 22 | 484 | 981 | | | | | | |
| 8. | Trissur | 78 | 148 | 19 | 245 | 54 | 165 | 7 | 226 | 121 | 390 | 11 | 522 | 993 | | | | | | |
| 9. | Palakkad | 58 | 77 | 15 | 150 | 64 | 159 | 13 | 236 | 186 | 350 | 9 | 545 | 931 | | | | | | |
| 10. | Malappuram | 82 | 76 | 30 | 188 | 110 | 225 | 14 | 349 | 348 | 480 | 8 | 836 | 1373 | | | | | | |
| 11. | Kozhikkodu | 67 | 96 | 17 | 180 | 76 | 241 | 10 | 327 | 185 | 533 | 6 | 724 | 1231 | | | | | | |
| 12. | Wayanad | 35 | 22 | 4 | 61 | 35 | 39 | 3 | 77 | 68 | 53 | 6 | 127 | 265 | | | | | | |
| 13. | Kannur | 81 | 77 | 10 | 168 | 77 | 277 | 12 | 366 | 114 | 615 | 9 | 738 | 1272 | | | | | | |
| 14. | Kasaragod | 74 | 33 | 8 | 115 | 72 | 72 | 4 | 148 | 134 | 115 | 8 | 257 | 520 | | | | | | |
| Total | | 975 | 1395 | 210 | 2580 | 961 | 1873 | 134 | 2968 | 2521 | 4039 | 166 | 6726 | 12274 | | | | | | |

G - Government, PA - Private Aided

PUA - Private unaided, T - Total

| Category | G | PA | PUA | Total |
|--------------------|------|------|-----|-------|
| H.S. | 975 | 1395 | 210 | 2580 |
| U.P.S | 961 | 1873 | 134 | 2968 |
| L.P.S. | 2521 | 4039 | 166 | 6726 |
| Ango-India H.s. | -- | 5 | 3 | 8 |
| Handicapped School | 7 | 23 | 4 | 34 |
| Total | 4464 | 7335 | 517 | 12316 |

Source : Directorate of Public Instruction, Thiruvananthapuram

Standard-wise Enrolment in 1996-97 and Age Group Children Projected for 2001 AD

| Category | Present Enrolment (1996-97) | Age Group Population 2001* | Actual Decline | Percentage Decline |
|---------------------|--------------------------------|-------------------------------|----------------|--------------------|
| 1 | 2 | 3 | 4 | 5 |
| I | 507072 | 527587 | -20515 | -4.05 |
| II | 540857 | 528589 | 12268 | 2.27 |
| III | 541505 | 530531 | 10974 | 2.03 |
| IV | 551076 | 531194 | 19882 | 3.61 |
| Sub-Total L.P Level | 2140510 | 2117901 | 22609 | 1.06 |
| V | 581325 | 532056 | 49269 | 8.48 |
| VI | 587637 | 534988 | 52649 | 8.96 |
| VII | 620928 | 531653 | 89275 | 14.38 |
| Sub-Total UP Level | 1789890 | 1598697 | 191193 | 10.68 |
| VIII | 594271 | 526072 | 68199 | 11.48 |
| IX | 560172 | 525340 | 34832 | 6.22 |
| X | 449381 | 524060 | -74679 | -16.62 |
| Sub-Total HS Level | 1603824 | 1575472 | +28352 | 1.77 |
| Total | 5534224 | 5292070 | 242154 | 4.38 |

Source : Report of the Expert Committee on School Age Group Population in 2001 A.D and its Implications on Educational Policy and Planning-1994.

Appendix - 9.12

Enrolment of Students in Schools - District-wise and Stage-wise 1996-97

| Districts | L.P.S. | | | U.P.S. | | | High Schools | | | Total | | |
|--------------------|----------------|----------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|----------------|----------------|
| | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
| Thiruvananthapuram | 98653 | 97609 | 196262 | 82043 | 79596 | 161639 | 72455 | 74959 | 147414 | 253151 | 252164 | 505315 |
| Kollam | 73817 | 72528 | 146345 | 67014 | 64204 | 131218 | 65162 | 65580 | 130742 | 205993 | 202312 | 408305 |
| Pathanamthitta | 35660 | 34620 | 70280 | 31110 | 29387 | 60497 | 31286 | 30586 | 61872 | 98056 | 94593 | 192649 |
| Alappuzha | 58464 | 56454 | 114918 | 53225 | 49509 | 102734 | 52175 | 51519 | 103694 | 163864 | 157482 | 321346 |
| Kottayam | 58363 | 55382 | 113745 | 49392 | 46482 | 95874 | 44968 | 46902 | 91870 | 152723 | 148766 | 301489 |
| Idukki | 34068 | 32071 | 66139 | 30193 | 27101 | 57294 | 24277 | 24745 | 49022 | 88538 | 83917 | 172455 |
| Ernakulam | 83346 | 80620 | 163966 | 74352 | 70719 | 145071 | 68757 | 71306 | 140063 | 226455 | 222645 | 449100 |
| Thrissur | 102342 | 96795 | 199137 | 83688 | 78608 | 162198 | 68866 | 72535 | 141401 | 254896 | 247838 | 502734 |
| Palakkad | 101533 | 97765 | 199298 | 82785 | 79299 | 162084 | 64349 | 68233 | 132582 | 248667 | 245297 | 493964 |
| Malappuram | 173423 | 163657 | 337080 | 137305 | 128604 | 265909 | 103083 | 107902 | 210985 | 413811 | 400163 | 813974 |
| Kozhikode | 104462 | 97925 | 202387 | 90798 | 84080 | 174878 | 78207 | 81112 | 159319 | 273467 | 263117 | 536584 |
| Wayanad | 29357 | 27509 | 56866 | 22731 | 21697 | 44428 | 17856 | 19189 | 37045 | 69944 | 68395 | 138339 |
| Kannur | 90586 | 85792 | 176378 | 78248 | 72082 | 150330 | 67513 | 68267 | 135780 | 236347 | 226141 | 462488 |
| Kasaragode | 50413 | 47296 | 97709 | 39479 | 36259 | 75738 | 31650 | 30385 | 62035 | 121542 | 113940 | 235482 |
| Total | 1094487 | 1046023 | 2140510 | 922363 | 867527 | 1789890 | 790604 | 813220 | 1603824 | 2807454 | 2726770 | 5534224 |

Source : Directorate of Public Instruction, TVM.

Appendix - 9.13

Enrolment of SC/ST Students at School Level 1997

| Section | General | Scheduled Castes | Percentage to Total | Scheduled Tribes | Percentage to Total |
|---------------|---------|------------------|---------------------|------------------|---------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| Lower Primary | 2140510 | 234270 | 10.94 | 29384 | 1.37 |
| Upper Primary | 1789890 | 198026 | 11.06 | 19078 | 1.07 |
| Secondary | 1603824 | 170357 | 10.62 | 13454 | 0.84 |
| Total | 5534224 | 602653 | 10.89 | 61916 | 1.12 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.14

Standard-wise Strength of SC / ST Students - 1997

| Standard | Government Schools | | | Private Aided Schools | | | Private Unaided Schools | | |
|----------|--------------------|--------|-------|-----------------------|--------|-------|-------------------------|------|------|
| | Total | SC | ST | Total | SC | ST | Total | SC | ST |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| I | 188152 | 24821 | 4425 | 293700 | 29074 | 3892 | 25220 | 735 | 55 |
| II | 201935 | 27295 | 4156 | 313426 | 31718 | 3461 | 25496 | 761 | 48 |
| III | 206067 | 27306 | 3817 | 311711 | 31240 | 2966 | 23727 | 723 | 44 |
| IV | 213064 | 28484 | 3610 | 315498 | 31398 | 2860 | 22514 | 715 | 50 |
| V | 195972 | 25004 | 3548 | 363039 | 38200 | 2906 | 22314 | 504 | 85 |
| VI | 198197 | 24816 | 3210 | 368666 | 39361 | 2955 | 20774 | 490 | 40 |
| VII | 208523 | 26300 | 3222 | 393972 | 42896 | 3059 | 18433 | 455 | 53 |
| VIII | 230178 | 28484 | 3063 | 345607 | 37267 | 2470 | 18486 | 460 | 62 |
| IX | 217827 | 25855 | 2690 | 326047 | 34256 | 1990 | 16298 | 396 | 54 |
| X | 174835 | 18902 | 1775 | 261119 | 24389 | 1310 | 13427 | 346 | 40 |
| Total | 2034750 | 257267 | 33516 | 3292785 | 339799 | 27869 | 206689 | 5587 | 531 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.15

Enrolment of Students in Government Schools - Kerala - 1997

| S T A N D A R D S | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | I | II | III | IV | Total | V | VI | VII | Total | VIII | IX | X | Total |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| Boys | 96317 | 103319 | 106454 | 110130 | 416220 | 101353 | 102530 | 107482 | 311365 | 118940 | 107438 | 81806 | 308184 |
| Girls | 91835 | 98616 | 99613 | 102934 | 392998 | 94619 | 95667 | 101041 | 291327 | 111238 | 110389 | 93029 | 314656 |
| Total | 188152 | 201935 | 206067 | 213064 | 809218 | 195972 | 198197 | 208523 | 602692 | 230178 | 217827 | 174835 | 622840 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.16

Enrolment of Students in Private Aided Schools - Kerala - 1997

| S T A N D A R D S | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|--------|--------|
| | I | II | III | IV | Total | V | VI | VII | Total | VIII | IX | X | Total |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| Boys | 148688 | 160141 | 159217 | 161259 | 629305 | 186518 | 189410 | 202672 | 578600 | 175764 | 160122 | 122066 | 457952 |
| Girls | 145012 | 153285 | 152494 | 154239 | 605030 | 176521 | 179256 | 191300 | 547077 | 169843 | 165925 | 139053 | 474821 |
| Total | 293700 | 313426 | 311711 | 315498 | 1234335 | 363039 | 368666 | 393972 | 1125677 | 345607 | 326047 | 261119 | 932773 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Enrolment of Students in Private unaided Schools - Kerala 1997

S T A N D A R D S

| | I | II | III | IV | V | VI | VII | Total | VIII | IX | X | Total |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| (1) | (2) | (3) | (4) | (5) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| Boys | 12751 | 12956 | 11971 | 11284 | 11865 | 10916 | 9617 | 32398 | 9525 | 8381 | 6562 | 24468 |
| Girls | 12469 | 12540 | 11756 | 11230 | 10449 | 9858 | 8816 | 29123 | 8961 | 7917 | 6865 | 23743 |
| Total | 25220 | 25496 | 23727 | 22514 | 22314 | 20774 | 18433 | 61521 | 18486 | 16298 | 13427 | 48211 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Enrolment of Students in Government - Aided and Unaided Schools - Standard and Management-wise

S T A N D A R D S

| Year / Management | I | II | III | IV | V | VI | VII | VIII | IX | X | Total |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
| 1971 | | | | | | | | | | | |
| Government | 350656 | 319732 | 300003 | 283427 | 189792 | 142418 | 112391 | 108308 | 88796 | 54125 | 1948648 |
| Aided | 446259 | 392704 | 366132 | 337902 | 320439 | 270533 | 224440 | 198761 | 168323 | 100732 | 2826225 |
| Unaided | 3555 | 2985 | 2796 | 2394 | 2332 | 2037 | 1881 | 2628 | 2351 | 1690 | 24649 |
| Total | 800470 | 715421 | 668931 | 623723 | 512563 | 414988 | 338712 | 308697 | 259470 | 156547 | 4799522 |
| 1972 | | | | | | | | | | | |
| Government | | | | | | | | | | | |
| Aided | | | | | | | | | | | |
| Unaided | | | | | | | | | | | |
| Total | | | | | | | | | | | |
| 1973 | | | | | | | | | | | |
| Government | 294181 | 393735 | 309121 | 281742 | 194980 | 151913 | 121478 | 118403 | 91075 | 53107 | 2909738 |
| Aided | 380014 | 501878 | 380459 | 349412 | 340198 | 291609 | 242621 | 210896 | 173175 | 101486 | 2971746 |
| Unaided | 5121 | 4971 | 4305 | 3641 | 4258 | 3383 | 2899 | 4090 | 3432 | 2360 | 38460 |
| Total | 679316 | 900584 | 693888 | 634795 | 539436 | 446905 | 366998 | 333389 | 267680 | 156953 | 5019944 |

Separate figures are not available

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
|------|------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1974 | Government | 320560 | 369587 | 296884 | 198665 | 164473 | 137558 | 99291 | 116674 | 72497 | 2056388 |
| | Aided | 399190 | 434481 | 363539 | 347153 | 312832 | 276683 | 177109 | 213210 | 142183 | 3028487 |
| | Unaided | 5304 | 4705 | 3806 | 4233 | 3796 | 3552 | 3608 | 3998 | 2674 | 41019 |
| | Total | 725054 | 808773 | 664229 | 550051 | 481101 | 417793 | 280008 | 333882 | 217354 | 5125894 |
| 1975 | Government | 290242 | 302238 | 359184 | 218442 | 171575 | 153144 | 137531 | 85238 | 107032 | 2094832 |
| | Aided | 365395 | 376190 | 424529 | 369541 | 321921 | 299643 | 226480 | 150443 | 198858 | 3090211 |
| | Unaided | 5187 | 4751 | 4163 | 4079 | 3855 | 3305 | 3394 | 2801 | 3472 | 40662 |
| | Total | 660824 | 683179 | 779876 | 592062 | 497351 | 456092 | 368005 | 238482 | 309362 | 5225705 |
| 1976 | Government | 268750 | 281166 | 294070 | 235596 | 199773 | 159447 | 146252 | 125600 | 81038 | 2067148 |
| | Aided | 347692 | 339515 | 360324 | 405908 | 346722 | 305536 | 361541 | 201312 | 125796 | 3047405 |
| | Unaided | 4704 | 4664 | 4310 | 3971 | 3708 | 3313 | 3626 | 3891 | 3264 | 40487 |
| | Total | 621146 | 625345 | 658704 | 645475 | 550203 | 468296 | 411419 | 330803 | 210098 | 5155040 |
| 1977 | Government | 271629 | 263655 | 282888 | 247596 | 215654 | 172418 | 140554 | 126222 | 90794 | 2091512 |
| | Aided | 347366 | 3401551 | 326280 | 345689 | 362179 | 313829 | 274896 | 230301 | 149867 | 3060978 |
| | Unaided | 4819 | 4543 | 4412 | 3764 | 3743 | 3661 | 3063 | 3316 | 2787 | 41089 |
| | Total | 623814 | 608349 | 613580 | 597049 | 581576 | 489908 | 418513 | 359839 | 243448 | 5193579 |
| 1978 | Government | 285219 | 270656 | 269266 | 213260 | 193372 | 97863 | 160224 | 132779 | 104898 | 2108352 |
| | Aided | 383170 | 355284 | 346414 | 369955 | 365541 | 368223 | 270751 | 232256 | 170118 | 3240916 |
| | Unaided | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Total | 668389 | 625940 | 615680 | 583215 | 558913 | 566086 | 430975 | 365035 | 275016 | 5349268 |
| 1979 | Government | 296339 | 284848 | 207929 | 270918 | 190471 | 182237 | 190009 | 149279 | 106443 | 2145951 |
| | Aided | 379916 | 365316 | 346552 | 359091 | 393620 | 361684 | 299098 | 257047 | 183009 | 3220180 |
| | Unaided | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Total | 676255 | 649962 | 617470 | 567020 | 494091 | 543921 | 489107 | 406326 | 289452 | 5366131 |
| 1980 | Government | 287362 | 290362 | 276219 | 207490 | 188314 | 182062 | 191932 | 170554 | 113153 | 2175811 |
| | Aided | 373726 | 369644 | 357809 | 370342 | 350932 | 352128 | 308561 | 280053 | 191022 | 3321531 |
| | Unaided | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Total | 661088 | 660006 | 634028 | 577832 | 539246 | 534190 | 500493 | 450607 | 304175 | 5497342 |

Contd... Appendix - 9.18

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | |
|------|-----------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------------|
| 1981 | Government Aided Unaided Total | 267342 356921 7216 631479 | 281494 373231 7314 662039 | 280991 356311 6652 645954 | 286762 362375 6194 655331 | 216579 380489 6061 603129 | 189751 358067 5755 553573 | 182642 350970 6072 538684 | 188333 300989 6507 495738 | 176151 286931 5379 468461 | 133381 211905 4279 349585 | 2203426 3339098 80429 5602953 |
| 1982 | Government Aided Unaided Total | 274709 363546 7624 645879 | 278413 366416 7727 652556 | 274879 362272 7319 644470 | 279415 356940 6828 643183 | 228882 385305 6638 620825 | 201694 366797 6217 574708 | 186318 359803 5560 551681 | 197745 288729 6343 492817 | 177583 275002 5560 458145 | 137596 224660 4278 366534 | 2237234 3349470 6494 5650798 |
| 1983 | Government Aided Unaided Total | 264896 354307 7093 626296 | 282509 366733 7505 656747 | 269704 353149 7477 630330 | 271893 356352 7122 635367 | 227894 378351 7345 613590 | 216240 372875 7064 596179 | 198260 367907 6261 572428 | 202333 290503 6646 499482 | 181861 268241 6008 455910 | 138477 216786 4681 359944 | 2253867 3325204 67202 5646273 |
| 1984 | Government Aided Unaided Total | 250000 344529 8211 602800 | 272253 360620 7340 640213 | 273054 355226 7351 635213 | 266139 349050 7239 635631 | 226323 378851 8414 622428 | 216348 371628 7887 613588 | 211979 376520 7422 595863 | 208592 306831 7662 595921 | 182345 272184 6636 523135 | 141978 209230 6503 481165 | 2249071 3324719 74665 357711 |
| 1985 | Government Aided Unaided Total | 255053 351110 11518 617681 | 267837 368858 10114 646809 | 267568 355844 8987 632399 | 270398 352108 8914 631420 | 224721 380198 9095 614014 | 213938 371933 8758 594629 | 204772 366477 8101 579350 | 214294 324198 7712 546204 | 184478 285221 6490 476189 | 130659 206646 5076 342391 | 2233718 3362593 84765 5681076 |
| 1986 | Government Aided Unaided Total | 260874 355364 14401 630639 | 277696 390806 13168 681670 | 267529 367503 11089 646121 | 268638 358385 9943 636966 | 227210 582874 10600 620684 | 211684 368146 10410 590240 | 201889 355034 9229 566152 | 210541 313502 8614 532657 | 190390 289219 7905 487514 | 27223 190636 5649 323508 | 2243674 5371469 101008 5716151 |
| 1987 | Government Aided Unaided Total | 253615 344902 16119 614636 | 279531 390154 15846 685531 | 269632 374816 14011 658459 | 260523 355817 11965 628305 | 231295 381593 11038 623926 | 215875 371992 11225 599092 | 200885 355191 10605 566681 | 211021 309967 9912 530900 | 189074 290934 8828 488836 | 125241 188314 7536 321091 | 2236692 3363680 117085 5717457 |

Contd... Appendix - 9.18

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | |
|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1988 | Government | 266257 | 281147 | 276461 | 269535 | 232015 | 220328 | 202742 | 209844 | 192088 | 126073 | 2276479 |
| | Aided | 345994 | 389748 | 378230 | 364997 | 383771 | 375130 | 356100 | 312284 | 289819 | 187286 | 3383359 |
| | Unaided | 17802 | 16486 | 16084 | 14353 | 12152 | 11892 | 11465 | 10776 | 9852 | 7956 | 128818 |
| | Total | 630053 | 687381 | 670775 | 648885 | 627938 | 607350 | 570307 | 532904 | 491748 | 321315 | 5788656 |
| 1989 | Government | 248146 | 275421 | 275343 | 272741 | 230716 | 219276 | 216799 | 212025 | 191153 | 149357 | 2290977 |
| | Aided | 342720 | 363075 | 380044 | 372222 | 388627 | 367188 | 379599 | 308417 | 290105 | 226524 | 3427521 |
| | Unaided | 17776 | 16290 | 15986 | 15624 | 12847 | 12083 | 11708 | 10955 | 10660 | 8894 | 133453 |
| | Total | 608642 | 655416 | 671373 | 660587 | 632190 | 607547 | 607106 | 531397 | 491918 | 384775 | 5851951 |
| 1990 | Government | 240043 | 256847 | 269077 | 270354 | 237588 | 219844 | 228077 | 118077 | 302530 | 152629 | 2295066 |
| | Aided | 335528 | 354848 | 356173 | 373983 | 402910 | 385228 | 385255 | 329762 | 290683 | 230390 | 3444760 |
| | Unaided | 18977 | 17980 | 17178 | 16080 | 14474 | 13776 | 12446 | 11279 | 11070 | 8630 | 142890 |
| | Total | 594548 | 649675 | 622428 | 660417 | 654972 | 618848 | 625778 | 459118 | 604283 | 392649 | 5882716 |
| 1991 | Government | 241675 | 248853 | 253511 | 265248 | 237583 | 228333 | 222592 | 233577 | 208871 | 156329 | 2296572 |
| | Aided | 339294 | 348035 | 348021 | 355424 | 407512 | 396755 | 393812 | 333643 | 305326 | 228992 | 3456814 |
| | Unaided | 20061 | 18493 | 17770 | 16018 | 14967 | 14941 | 13311 | 11670 | 10957 | 9527 | 147715 |
| | Total | 601030 | 615381 | 619302 | 636690 | 660062 | 640029 | 629715 | 578890 | 525154 | 394848 | 5901101 |
| 1992 | Government | 227117 | 251242 | 245374 | 251588 | 231029 | 227675 | 228315 | 240337 | 214871 | 165671 | 2283219 |
| | Aided | 327846 | 353177 | 341720 | 346930 | 393267 | 400750 | 406977 | 349222 | 312984 | 241521 | 3468394 |
| | Unaided | 20946 | 20071 | 18218 | 17169 | 15809 | 16000 | 14258 | 12545 | 11588 | 9788 | 155392 |
| | Total | 575909 | 624490 | 605312 | 615687 | 640105 | 643425 | 649550 | 596104 | 539443 | 416980 | 5907005 |
| 1993 | Government | 222718 | 236927 | 244013 | 242837 | 221542 | 223856 | 229486 | 243953 | 216751 | 178828 | 2260894 |
| | Aided | 321984 | 341651 | 343554 | 338976 | 383753 | 390933 | 411690 | 351028 | 317629 | 244923 | 3446121 |
| | Unaided | 21724 | 20772 | 19315 | 17614 | 16676 | 15470 | 14135 | 13388 | 12367 | 10260 | 161721 |
| | Total | 566426 | 599350 | 606882 | 599427 | 621971 | 630259 | 665294 | 608369 | 546747 | 434011 | 5868736 |
| 1994 | Government | 208257 | 231249 | 233723 | 243253 | 211505 | 213979 | 226289 | 248288 | 222805 | 172656 | 2212004 |
| | Aided | 309142 | 335008 | 336352 | 342378 | 374651 | 380460 | 409815 | 358045 | 322834 | 252485 | 3421170 |
| | Unaided | 23194 | 22381 | 20819 | 19298 | 18048 | 16770 | 15320 | 14276 | 13070 | 11757 | 174933 |
| | Total | 540593 | 588838 | 590894 | 604929 | 604204 | 811209 | 651424 | 620609 | 558709 | 436898 | 5808107 |

Contd... Appendix - 9.18

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | |
|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1995 | Government | 202902 | 217162 | 227080 | 231957 | 212225 | 206606 | 217255 | 245121 | 225677 | 173590 | 2159575 |
| | Aided | 302742 | 322265 | 328188 | 332579 | 377674 | 373748 | 399187 | 357347 | 329809 | 253974 | 3377513 |
| | Unaided | 23140 | 22382 | 21533 | 20052 | 18692 | 17460 | 16338 | 14956 | 13651 | 12053 | 180257 |
| | Total | 528784 | 561809 | 576801 | 584588 | 608591 | 597814 | 632780 | 617424 | 569137 | 439617 | 5717345 |
| 1996 | Government | 195579 | 210624 | 214658 | 225254 | 203728 | 206195 | 209774 | 237579 | 222783 | 175908 | 2102082 |
| | Aided | 299153 | 316278 | 316893 | 326388 | 369445 | 375531 | 392063 | 349019 | 330417 | 258274 | 3333461 |
| | Unaided | 24316 | 24155 | 22971 | 21815 | 19849 | 18764 | 17426 | 15867 | 14763 | 12284 | 191310 |
| | Total | 519048 | 551057 | 554522 | 573457 | 593022 | 600490 | 619263 | 602465 | 567963 | 446466 | 5627753 |
| 1997 | Government | 188152 | 201935 | 206067 | 213064 | 195972 | 198197 | 208523 | 230178 | 217827 | 174835 | 2034750 |
| | Aided | 293700 | 313426 | 311711 | 315498 | 363039 | 368666 | 393972 | 345607 | 326047 | 261119 | 3292785 |
| | Unaided | 25220 | 25496 | 23727 | 22514 | 22314 | 20774 | 18433 | 18456 | 16298 | 13427 | 206689 |
| | Total | 507072 | 540857 | 541505 | 551076 | 581325 | 587637 | 620928 | 594271 | 560172 | 449381 | 5534224 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.19
Enrolment of Students in Schools in Kerala - Stage-wise

| Year | L.P.S. | | | | U.P.S. | | | | H.S. | | | | Total |
|------|---------|---------|---------|----------|--------|----------|---------|---------|--------|---------|---------|---------|---------|
| | Govt. | Aided | Unaided | Total | Govt. | Aided | Unaided | Total | Govt. | Aided | Unaided | Total | |
| | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | |
| 1973 | 1278782 | 1611763 | 18038 | 2908583 | 468371 | 874428 | 10540 | 1353339 | 262585 | 485555 | 9882 | 758022 | 5019944 |
| 1974 | 1267230 | 1559317 | 19158 | 2845705 | 500696 | 936668 | 11581 | 1448945 | 288462 | 532502 | 10280 | 831244 | 5125894 |
| 1975 | 1221870 | 1523325 | 19156 | 2764351 | 543161 | 991105 | 11239 | 1545505 | 329801 | 575781 | 10267 | 915849 | 5225705 |
| 1976 | 1119442 | 1400590 | 18714 | 2538746 | 594816 | 1958166 | 10992 | 1663974 | 352890 | 588649 | 10781 | 952320 | 5155040 |
| 1977 | 1098274 | 1384217 | 20755 | 2503246 | 635668 | 1021697 | 11168 | 1668533 | 357570 | 655064 | 9166 | 1021800 | 5193579 |
| 1978 | 1105956 | 1464072 | -- | 2570028 | 601495 | 1103719* | -- | 1708214 | 397901 | 673125* | -- | 1071026 | 5349268 |
| 1979 | 1119583 | 1456631 | -- | 2576214 | 580637 | 1024395 | -- | 1605032 | 445731 | 739154 | -- | 1184885 | 5366131 |
| 1980 | 1122306 | 1468493 | -- | 2590799 | 577866 | 1073402 | -- | 1651268 | 475639 | 779636 | -- | 1255275 | 5497342 |
| 1981 | 1116589 | 1450838 | 27376 | 2594803 | 588972 | 1088526 | 16888 | 1694386 | 497865 | 799734 | 16165 | 1313764 | 5602953 |
| 1982 | 1107416 | 1446174 | 29498 | 2586088* | 616894 | 111905 | 18415 | 174214 | 512924 | 788391 | 16181 | 1371496 | 5650798 |
| 1983 | 1089002 | 1430541 | 29197 | 2548740 | 642394 | 1119133 | 20670 | 1782197 | 522471 | 775530 | 17335 | 1315396 | 5646273 |
| 1984 | 1061506 | 1409425 | 30141 | 2501072 | 654650 | 1126999 | 23723 | 1806372 | 632915 | 788295 | 20801 | 1342011 | 5648456 |
| 1985 | 1060856 | 1427920 | 39533 | 2528309 | 634431 | 1118608 | 25954 | 1787993 | 529431 | 816065 | 19278 | 1364774 | 5681076 |
| 1986 | 1074737 | 1472058 | 48601 | 2595396 | 640783 | 1106054 | 30239 | 1777076 | 528154 | 793357 | 22168 | 1343679 | 5716151 |
| 1987 | 1063301 | 1465689 | 57941 | 2586931 | 648055 | 1108776 | 32868 | 1789699 | 525336 | 789215 | 26276 | 1340827 | 5717457 |
| 1988 | 1093400 | 1478969 | 64725 | 2537094 | 855085 | 1115001 | 35509 | 1805595 | 527994 | 789389 | 28584 | 1345967 | 5788656 |
| 1989 | 1071651 | 1458061 | 66306 | 2596018 | 666791 | 1144414 | 36638 | 1847843 | 552535 | 825046 | 30509 | 1408090 | 5851951 |
| 1990 | 1035321 | 1420532 | 70215 | 2527068 | 685509 | 1173393 | 40696 | 1899598 | 573236 | 850835 | 31979 | 1456050 | 5882716 |
| 1991 | 1009287 | 1390774 | 72342 | 2472403 | 688508 | 1198079 | 43219 | 1929806 | 598777 | 867961 | 32154 | 1498892 | 5901101 |
| 1992 | 975321 | 1369673 | 78404 | 2421398 | 687019 | 1200994 | 45067 | 1933080 | 620879 | 897727 | 33921 | 1552527 | 5907005 |
| 1993 | 946495 | 1346165 | 79425 | 2372085 | 674867 | 1186376 | 46281 | 1907524 | 639532 | 913580 | 36015 | 1589127 | 5868736 |
| 1994 | 916482 | 1322880 | 85692 | 2325054 | 651773 | 1164926 | 50138 | 1866837 | 643749 | 933364 | 39103 | 1616216 | 5808107 |
| 1995 | 879101 | 1285774 | 87107 | 2251982 | 636086 | 1150609 | 52490 | 1839185 | 644388 | 941130 | 40660 | 1626178 | 5717345 |
| 1998 | 846115 | 1258712 | 93257 | 2198084 | 619697 | 1137039 | 58039 | 1812775 | 636270 | 937710 | 42914 | 1616894 | 5627753 |
| 1997 | 809218 | 1234335 | 96957 | 2140510 | 602692 | 1125677 | 61521 | 1789890 | 622840 | 932773 | 48211 | 1603824 | 5534224 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.20

Number of Teachers in Kerala

| Year | L.P. Schools | | | | U.P. Schools | | | | High Schools | | | |
|------|--------------|-------|-----------------|-------|--------------|-----|-----------------|-------|--------------|-----|-----------------|--|
| | Government | | Private Unaided | | Government | | Private Unaided | | Government | | Private Unaided | |
| | (2) | (3) | (4) | (3) | (5) | (6) | (7) | (6) | (8) | (9) | (10) | |
| 1971 | 21104 | 29016 | 199 | 15298 | 27493 | 242 | 17290 | 30894 | 789 | | | |
| 1972 | 21698 | 29840 | 208 | 15730 | 28259 | 245 | 17785 | 31773 | 788 | | | |
| 1973 | 24068 | 32873 | 258 | 16781 | 29841 | 290 | 18355 | 33858 | 1091 | | | |
| 1974 | 23391 | 30414 | 273 | 16807 | 28704 | 151 | 18478 | 33319 | 852 | | | |
| 1975 | 22992 | 30885 | 260 | 16652 | 28943 | 165 | 20155 | 33747 | 882 | | | |
| 1976 | 23299 | 31298 | 263 | 17386 | 30218 | 173 | 20557 | 34418 | 899 | | | |
| 1977 | 22923 | 31820 | 246 | 17125 | 30297 | 184 | 23718 | 36914 | 981 | | | |
| 1978 | 22743 | 30551 | 258 | 19189 | 33353 | 191 | 20416 | 40212 | 1052 | | | |
| 1979 | 22602 | 30362 | 256 | 18497 | 32149 | 183 | 25645 | 42939 | 1122 | | | |
| 1980 | 22808 | 30365 | 303 | 18098 | 32696 | 221 | 26731 | 42099 | 1289 | | | |
| 1981 | 21009 | 30658 | 308 | 17123 | 32614 | 234 | 27916 | 43008 | 1433 | | | |
| 1982 | 20327 | 30899 | 295 | 16006 | 33165 | 262 | 31425 | 43477 | 1505 | | | |
| 1983 | 19625 | 30616 | 359 | 14994 | 32458 | 251 | 33796 | 46704 | 1615 | | | |
| 1984 | 19220 | 30680 | 394 | 14598 | 32728 | 326 | 34830 | 47908 | 1847 | | | |
| 1985 | 19053 | 30156 | 467 | 14667 | 33569 | 522 | 35225 | 48686 | 2028 | | | |
| 1986 | 18947 | 30118 | 733 | 15245 | 33592 | 476 | 35850 | 49740 | 2543 | | | |
| 1987 | 19298 | 30436 | 793 | 15890 | 33972 | 558 | 36746 | 50161 | 2632 | | | |
| 1988 | 19696 | 30763 | 830 | 15835 | 34524 | 627 | 37126 | 50224 | 2774 | | | |
| 1989 | 19228 | 30202 | 846 | 15850 | 33666 | 656 | 38534 | 50072 | 2771 | | | |
| 1990 | 19100 | 30211 | 848 | 15873 | 33941 | 622 | 36794 | 49708 | 2904 | | | |
| 1991 | 18832 | 29885 | 883 | 15568 | 34263 | 645 | 37086 | 49845 | 2957 | | | |
| 1992 | 17750 | 29319 | 958 | 15727 | 34706 | 750 | 36893 | 50450 | 3241 | | | |
| 1993 | 17577 | 29122 | 1000 | 15958 | 34799 | 749 | 37065 | 50719 | 3250 | | | |
| 1994 | 17425 | 28857 | 1005 | 15822 | 34074 | 805 | 37104 | 51224 | 3771 | | | |
| 1995 | 17089 | 28433 | 1010 | 15703 | 34437 | 950 | 36950 | 51310 | 3811 | | | |
| 1996 | 16724 | 28276 | 1025 | 15439 | 34183 | 762 | 36333 | 51299 | 3895 | | | |
| 1997 | 16057 | 27868 | 926 | 14958 | 33907 | 824 | 35983 | 51668 | 5306 | | | |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.21

Number of School Teachers during 1996-97

| Category | Total Numbers | | | | of which SC/ST | | | | |
|----------------------|---------------|--------|--------|-------|----------------|-------|-----|-------|-----|
| | Men | | Women | | SC | | ST | | |
| | Men | Women | Total | Total | Men | Women | Men | Women | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| L.P. School Teachers | 14026 | 30825 | 44851 | 538 | 1026 | 1564 | 31 | 87 | 118 |
| U.P. School Teachers | 16810 | 32879 | 49689 | 511 | 837 | 1348 | 28 | 69 | 97 |
| High School Teachers | 31695 | 61262 | 92957 | 1096 | 1848 | 2944 | 47 | 66 | 113 |
| TTI School Teachers | 354 | 636 | 990 | 19 | 16 | 35 | -- | -- | -- |
| Total | 62885 | 125602 | 188487 | 2164 | 3727 | 5891 | 106 | 222 | 328 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.22

Number of Teachers in Kerala

| Year | L.P. Schools | | | | | | U.P. Schools | | | | | | High Schools | | | | | | T.T.I. | |
|------|--------------|-------|---------|-------|-------|-------|--------------|-------|---------|-------|-------|-------|--------------|------|---------|------|-------|------|--------|---------|
| | Govt. | | Private | | Total | | Govt. | | Private | | Total | | Govt. | | Private | | Total | | Govt. | Private |
| | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) |
| 1994 | 17425 | 28857 | 1005 | 47287 | 15822 | 34674 | 805 | 51301 | 37104 | 51224 | 3771 | 92099 | 488 | 523 | -- | 1011 | | | | |
| 1995 | 17089 | 28433 | 1010 | 46532 | 15703 | 34437 | 950 | 51090 | 36950 | 51310 | 3821 | 92081 | 484 | 533 | -- | 1017 | | | | |
| 1996 | 16724 | 28278 | 1025 | 46025 | 15439 | 34183 | 762 | 50384 | 36333 | 51299 | 3895 | 91527 | 488 | 582 | -- | 1070 | | | | |
| 1997 | 16057 | 27868 | 926 | 44851 | 14958 | 33907 | 824 | 49689 | 35983 | 51668 | 5306 | 92957 | 481 | 509 | -- | 990 | | | | |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Management-wise TTI Institutions, Student Strength and Number of Teachers - 1996 & 1997

| Management | Teacher Training Institutes | | | | | | | |
|------------|-----------------------------|------------------|--------------|--------------|--------------------|--------------|-----|--------------|
| | No. of Institutions (2) | Student Strength | | | Number of Teachers | | | Total (8) |
| | | Boys (3) | Girls (4) | Total (5) | Men (6) | Women (7) | | |
| 1996 | | | | | | | | |
| Government | 38 | 313 | 941 | 1254 | 128 | 58 | 184 | |
| Aided | 64 | 368 | 1661 | 2029 | 104 | 197 | 301 | |
| Unaided | -- | -- | -- | -- | -- | -- | -- | |
| Total | 102 | 681 | 2602 | 3283 | 232 | 253 | 485 | |
| 1997 | | | | | | | | |
| Government | 38 | NA | NA | NA | 124 | 74 | 198 | |
| Aided | 64 | NA | NA | NA | 91 | 192 | 283 | |
| Unaided | -- | -- | -- | -- | -- | -- | -- | |
| Total | 102 | - | - | - | 215 | 266 | 481 | |

Source : Directorate of Public Instruction, Thiruvananthapuram.

S220

University-wise Number of Arts & Science Colleges in Kerala 1997

| Name of University | No. of Colleges | | | Total (provisional) |
|--------------------|-----------------|---------------|-----------------|------------------------|
| | Government | Private aided | Private Unaided | |
| Kerala | 9 | 37 | 6 | 52 |
| Mahatma Gandhi | 7 | 55 | 2 | 64 |
| Calicut | 16 | 44 | 17 | 77 |
| Kannur | 6 | 12 | -- | 18 |
| Total | 38 | 148 | 25 | 211 |

Source : Directorate of Collegiate Education.

Appendix - 9.25

District-wise Number of Arts and Science Colleges in Kerala - 1996-97

| Sl. No. | District | Government | Private aided | Private unaided (provisional) | Total |
|---------|--------------------|------------|---------------|-------------------------------|-------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Thiruvananthapuram | 8 | 12 | 4 | 24 |
| 2. | Kollam | 1 | 12 | 2 | 15 |
| 3. | Pathanamthitta | -- | 9 | -- | 9 |
| 4. | Alappuzha | -- | 12 | 1 | 13 |
| 5. | Ernakulam | 4 | 21 | 3 | 28 |
| 6. | Kottayam | 1 | 20 | 3 | 24 |
| 7. | Idukki | 2 | 6 | 1 | 9 |
| 8. | Thrissur | 3 | 17 | 1 | 21 |
| 9. | Malappuram | 3 | 9 | 4 | 16 |
| 10. | Palakkad | 3 | 7 | 2 | 12 |
| 11. | Kozhikode | 6 | 8 | 2 | 16 |
| 12. | Wayanad | 2 | 4 | -- | 6 |
| 13. | Kannur | 2 | 9 | 2 | 13 |
| 14. | Kasaragod | 3 | 2 | -- | 5 |
| | Total | 38 | 148 | 25 | 211 |

Source : Directorate of Collegiate Education

Appendix - 9.26

Enrolment in Arts and Science Colleges in Kerala - University-wise & Stage-wise - 1997 (Provisional)

| Name of University | Pre-Degree | | | Degree | | | Post graduate | | | Total | | | | | | |
|--------------------|------------|--------|-------|--------|-------|-------|---------------|-------|------|-------|-------|------|--------|--------|-------|------|
| | Boys | Girls | SC | Boys | Girls | SC | Boys | Girls | SC | Boys | Girls | SC | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
| 1. Kerala | 28335 | 39964 | 10910 | 454 | 14105 | 24864 | 2995 | 130 | 1154 | 2510 | 411 | 22 | 43594 | 67338 | 14316 | 606 |
| 2. Calicut | 25494 | 27115 | 9410 | 260 | 14188 | 27787 | 3011 | 133 | 1102 | 1993 | 312 | 19 | 40784 | 56895 | 12733 | 412 |
| 3. Mahatma Gandhi | 25924 | 33418 | 6921 | 784 | 17427 | 29948 | 3319 | 359 | 1339 | 3349 | 423 | 59 | 44690 | 66715 | 10663 | 1202 |
| 4. Kannur | 6631 | 7026 | 1631 | 252 | 3721 | 4725 | 417 | 115 | 236 | 301 | 49 | 1 | 10588 | 12052 | 2097 | 368 |
| Total | 86384 | 107523 | 28872 | 1750 | 49441 | 87324 | 9742 | 737 | 3831 | 8153 | 1195 | 101 | 139656 | 203000 | 39809 | 2588 |

Source : Directorate of Collegiate Education

Course-wise Intake of Students in Arts and Science Colleges in Kerala - 1996-97

| Name of Course | Kerala University | | Calicut University | | Mahatma Gandhi University | | Kannur University | | Total | | | | |
|----------------|-------------------|--------|--------------------|--------|---------------------------|--------|-------------------|--------|-------|--------|--------|--------|--------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | | | |
| Pre-Degree | 26265 | 35372 | 33748 | 34242 | 14915 | 20034 | 34949 | -- | -- | 74928 | 89648 | 164576 | |
| Degree | 14507 | 27607 | 42114 | 16969 | 23591 | 40560 | 8782 | 21314 | 1407 | 1974 | 3381 | 41665 | 107369 |
| Post Graduate | 1115 | 2661 | 3776 | 1365 | 1799 | 3164 | 1061 | 3573 | 119 | 185 | 304 | 3660 | 7157 |
| Total | 41887 | 65640 | 107527 | 52082 | 111714 | 24758 | 59836 | 1526 | 2159 | 3685 | 120253 | 162509 | 282762 |

Source : Universities of Kerala, Calicut, Mahatma Gandhi and Kannur

Number of Teachers in Arts and Science Colleges (1995-1997)

| Sl. No. | Name of University | Number of Teachers | | | | | | | | |
|---------|--------------------|--------------------|-------|-------|-------|-------|-------|------|-------|-------|
| | | 1995 | | 1996 | | 1997 | | | | |
| | | Men | Women | Total | Men | Women | Total | Men | Women | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Kerala | 2281 | 1763 | 4044 | 2248 | 1751 | 3999 | 2241 | 1742 | 3983 |
| 2. | Calicut | 3012* | 1618* | 4630* | 2994* | 1584* | 4578* | 2310 | 1230 | 3540 |
| 3. | Mahatma Gandhi | 3121 | 1725 | 4846 | 3035 | 1628 | 4663 | 3047 | 1649 | 4696 |
| 4. | Kannur | -- | -- | -- | -- | -- | -- | 694 | 363 | 1057 |
| Total | | 8414 | 5106 | 13520 | 8277 | 4963 | 13240 | 8292 | 4984 | 13276 |

* Includes colleges under the Kannur University.
Source : Directorate of Collegiate Education.

Appendix - 9.29
Year-wise Break up of Private Registration

| Year | Kerala University | | | | | Calicut University | | | | | Mahatma Gandhi University | | | | | | | | | |
|------|-------------------|-----------|-----------|-------------|--------------|--------------------|------------|---------------|---------------|------------|---------------------------|---------------------|--------------------|------------|------------|---------------|---------------|---------------|------|-------|
| | Pre-Degree (2) | 8A (3) | MA (4) | 8Com (5) | M.Com (6) | M.Sc. Total (7) | 8A (10) | 8.Sc. (11) | 8.Com (12) | MA (13) | M.Sc. M.Com (14) | M.Com Total (15) | Pre-Degree (17) | 8A (18) | MA (19) | 8.Com (20) | M.Com (21) | Total (22) | | |
| 1987 | 38000 | 2900 | 3800 | 7200 | 1500 | -- | 53400 | 33792 | 6081 | 489 | 4500 | 1204 | 527 | 370 | 46963 | -- | -- | -- | -- | -- |
| 1988 | 26841 | 4697 | 5120 | 8724 | 1575 | -- | 46957 | 36547 | 7650 | 852 | 6086 | 1464 | 738 | 670 | 53885 | -- | -- | -- | -- | -- |
| 1989 | 26440 | 3250 | 5325 | 6170 | 2000 | -- | 43185 | 39771 | 11700 | 1173 | 8086 | 2021 | 738 | 665 | 64134 | -- | -- | -- | -- | -- |
| 1990 | 26329 | 4200 | 5636 | 6320 | 2500 | -- | 44995 | 44762 | 12217 | 1647 | 9875 | 2383 | 809 | 716 | 73364 | -- | -- | -- | -- | -- |
| 1991 | 26000 | 4283 | 6580 | 5977 | 2342 | -- | 47164 | 60753 | 14836 | 1800 | 10400 | 2658 | 1170 | 864 | 92490 | 32452 | 2431 | -- | 6310 | 44193 |
| 1992 | 27000 | 6000 | 7000 | 6250 | 2200 | -- | 48450 | 55347 | 11714 | -- | 8266 | 2864 | -- | 763 | 78935 | 26528 | 3138 | -- | 7282 | 36948 |
| 1993 | 27600 | 5600 | 9500 | 7000 | 1900 | 590 | 52190 | 58800 | 13147 | -- | 10217 | 3992 | -- | 929 | 87085 | 30777 | 3582 | -- | 8310 | 42669 |
| 1994 | 31000 | 5500 | 7800 | 7000 | 2169 | 650 | 54119 | 49461 | 7849 | -- | 9281 | 3132 | 566 | 884 | 71173 | 29135 | 4001 | -- | 8345 | 41481 |
| 1995 | 25000 | 5100 | 5675 | 6200 | 2400 | 650 | 45025 | 46512 | 8902 | -- | 11535 | 3139 | 428 | 681 | 71197 | 24992 | 2384 | -- | 5632 | 33008 |
| 1996 | 26226 | 4067 | 5765 | 6268 | 1860 | 554 | 44740 | 43256 | 11791 | -- | 14100 | 1981 | 457 | 1134 | 72719 | 25303 | 2206 | -- | 5769 | 33278 |
| 1997 | 23000 | -- | -- | -- | -- | -- | N.A | 39282 | 15000 | -- | 11500 | 3600 | 800 | 1378 | 71580 | 21931 | 2204 | -- | 6762 | 30897 |

Source : University of Kerala, Calicut and Mahatma Gandhi University.

Appendix - 9.30

University-wise and Management-wise Number of Teachers in Training Colleges in Kerala - 1997

| Name of University | No. of Training Colleges | | Number of Teachers | | |
|--------------------|--------------------------|----------------------|--------------------|------------------------|--------------|
| | Government (2) | Private aided (3) | Government (6) | Private unaided (7) | Total (9) |
| 1. Kerala | 1 | 7 | 11 | 44 | 55 |
| 2. Calicut | 2 | 2 | 31 | 18 | 49 |
| 3. Mahatma Gandhi | -- | 6 | -- | 47 | 47 |
| 4. Kannur | 1 | -- | 9 | 7 | 16 |
| Total | 4 | 15 | 51 | 116 | 167 |

Source : Directorate of Collegiate Education.

**University-wise and Management-wise Student Strength in Training Colleges
in Kerala - 1997**

| Name of University | Student Strength | | | Total |
|--------------------|------------------|---------------|-----------------|-------|
| | Government | Private aided | Private unaided | |
| 1. Kerala | 200 | 1143 | -- | 1343 |
| 2. Mahatma Gandhi | -- | 1215 | -- | 1215 |
| 3. Calicut | 360 | 608 | -- | 968 |
| 4. Kannur | 112 | 250 | -- | 362 |
| Total | 672 | 3216 | -- | 3888 |

Source : Directorate of Collegiate Education.

Number of Students and Teachers in Engineering Colleges - 1996-97

| Sl. No | Type of institutions | Student Enrolment | | | | | | | | | | Teachers | | | | | |
|--------|----------------------------------------------------|-------------------|-------|-------|------|-------|-------|------|-------|-------|-----|----------|-------|-----|-------|-------|--|
| | | 1996 | | | | | 1997 | | | | | 1996 | | | 1997 | | |
| | | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total | Men | Women | Total | Men | Women | Total | |
| 1. | Government Engineering College, Thiruvananthapuram | 337 | 165 | 502 | -- | -- | 563 | 174 | 74 | 252 | 175 | 77 | 252 | 77 | 77 | 252 | |
| 2. | Engineering College, Thrissur | 288 | 119 | 407 | -- | -- | 460 | 109 | 40 | 149 | 109 | 40 | 149 | 40 | 40 | 149 | |
| 3. | Engineering College, Kannur | 113 | 41 | 154 | -- | -- | 200 | 30 | 18 | 48 | 32 | 16 | 48 | 16 | 16 | 48 | |
| 4. | R.I.T. Kottayam | 103 | 52 | 155 | -- | -- | 200 | 26 | 16 | 42 | 26 | 16 | 42 | 16 | 16 | 42 | |
| 5. | Regional Engineering College Kozhikode | -- | -- | 350 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | Private Aided | | | | | | | | | | | | | | | | |
| 1. | T.K.M College, Kollam | 262 | 128 | 390 | -- | -- | 500 | 133 | 66 | 199 | 133 | 66 | 199 | 66 | 66 | 199 | |
| 2. | M.A. College, Kothamangalam | 210 | 97 | 307 | -- | -- | 380 | 80 | 36 | 116 | 81 | 35 | 116 | 35 | 35 | 116 | |
| 3. | N.S.S. College of Engineering Palakkad | 215 | 93 | 308 | -- | -- | 380 | 99 | 43 | 142 | 100 | 42 | 142 | 42 | 42 | 142 | |
| | Total | 1528 | 695 | 2573 | -- | -- | 2683 | 655 | 293 | 948 | 655 | 293 | 948 | 293 | 293 | 948 | |

Source : Directorate of Technical Education, Thiruvananthapuram

Distribution of Total seats in various Engineering Colleges (Branch-wise)

| Sl. No. | Name of Course | TVM | TCR | KNR | KTM | TKM | MAC | NSS | MES | MDL | CHN | ADR | KSD | SCT | UCE | TOTAL |
|---------|-----------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1. | Civil Engineering | 122 | 90 | 50 | 50 | 90 | 90 | 90 | -- | -- | -- | -- | -- | -- | -- | 582 |
| 2. | Mechanical Engineering | 121 | 100 | 50 | 50 | 100 | 100 | 100 | 60 | -- | -- | 60 | 60 | -- | -- | 801 |
| 3. | Electrical and Electronics Engineering | 100 | 100 | 50 | 50 | 100 | 100 | 100 | -- | -- | -- | -- | 60 | -- | -- | 660 |
| 4. | Electronics & Communication | 50 | 40 | 50 | 50 | 50 | 50 | 50 | 60 | -- | -- | -- | 60 | 60 | 60 | 580 |
| 5. | Computer Science & Engineering | 50 | 50 | -- | -- | 50 | 40 | -- | 60 | -- | -- | -- | 60 | 60 | 60 | 430 |
| 6. | Applied Electronics and Instrumentation Engineering | 50 | -- | -- | -- | -- | -- | -- | 60 | -- | -- | -- | -- | -- | -- | 110 |
| 7. | Architecture | 40 | -- | -- | -- | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 80 |
| 8. | Industrial Engineering | 30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30 |
| 9. | Chemical Engineering | -- | 50 | -- | -- | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 90 |
| 10. | Production Plant Engineering | -- | 30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30 |
| 11. | Production Engineering | -- | -- | -- | -- | 30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 30 |
| 12. | Instrumentation & Control Engineering | -- | -- | -- | -- | -- | -- | 40 | -- | -- | -- | -- | -- | -- | -- | 40 |
| 13. | Computer Engineering | -- | -- | -- | -- | -- | -- | -- | 60 | 120 | 60 | -- | -- | -- | -- | 240 |
| 14. | Electronics Engineering | -- | -- | -- | -- | -- | -- | -- | 60 | 120 | 120 | -- | -- | -- | -- | 300 |
| 15. | Bio-Medical Engineering | -- | -- | -- | -- | -- | -- | -- | 40 | -- | -- | -- | -- | -- | -- | 40 |
| 16. | Mechanical Engineering (Automobile) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 60 | 60 | -- | 60 |
| 17. | Mechanical Engineering (Production) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 60 | 60 | -- | 60 |
| 18. | Polymer Engineering | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 60 | 60 |
| Total | | 563 | 460 | 200 | 200 | 500 | 380 | 380 | 240 | 160 | 240 | 240 | 240 | 240 | 180 | 4223 |

Source : Directorate of Technical Education.

Appendix - 9.34

Course-wise Annual Intakes of Students in Engineering Colleges at Post Graduate Level

| Sl. No. | Name of Course | No. of Students | |
|--------------|-----------------------------------------|-----------------|------------|
| | | 1996 | 1997 |
| 1. | Civil Engineering | 57 | 57 |
| 2. | Mechanical Engineering | 42 | 42 |
| 3. | Electrical Engineering | 41 | 41 |
| 4. | Electronics Engineering | 5 | 5 |
| 5. | Chemical Engineering | 6 | 6 |
| 6. | Production-cum-Plant Engineering | -- | -- |
| 7. | Instrumentation and Control System | 10 | 10 |
| 8. | Production Engineering | 6 | 6 |
| 9. | Applied Electronics and Instrumentation | 5 | 5 |
| 10. | Architecture | 5 | 5 |
| 11. | Industrial Engineering | 15 | 15 |
| 12. | Electrical Communication | -- | -- |
| 13. | Computer Science | -- | -- |
| 14. | Production and Management | -- | -- |
| 15. | M.C.A. | 120 | 120 |
| Total | | 312 | 312 |

Source : Directorate of Technical Education

Appendix - 9.35

Number of Polytechnics and Intake in Polytechnics in Kerala 1990-1997

| Year | Number of Polytechnics | Sanctioned intake |
|------|------------------------|-------------------|
| 1 | 2 | 3 |
| 1990 | 29 | 4231 |
| 1991 | 29 | 4389 |
| 1992 | 30 | 4508 |
| 1993 | 31 | 4816 |
| 1994 | 39 | 6054 |
| 1995 | 38 | 6180 |
| 1996 | 38 | 6180 |
| 1997 | 38 | 6660 |

Source : Directorate of Technical Education.

Course-wise Sanctioned Intake in Polytechnics in Kerala - 1997-98

| Sl. No. | Name of Institution | Civil | Mechanical | Electrical | Electronics & Com-muni-cation | Electronics & Inst-ru-ction Tech. | Electronics & Prod-uction Tech. | Electronics & Avio-nics | Computer Engg. | Computer Hard-ware & Busi-ness mana-gement | Computer Appl. | Auto-mobile | Textile Tech. | Poly-mer Tech. | Chemical | Tool & die Engg. | Archite-cture Engg. | Wood & Paper Tech. | Print-ing Tech. | Commer-cial Pri-nting | Inst-ru-ment Tech. | Total | |
|---------|----------------------------------------------|-------|------------|------------|-------------------------------|-----------------------------------|---------------------------------|-------------------------|----------------|--------------------------------------------|----------------|-------------|---------------|----------------|----------|------------------|---------------------|--------------------|-----------------|-----------------------|--------------------|-------|-----|
| 1 | Central Polytechnic, Thiruvananthapuram | 60 | 60 | 60 | 60 | | | | | | | | 60 | | | | | | | | | | 300 |
| 2 | Women's Polytechnic, Thiruvananthapuram | | | | 50 | | | | 50 | | | | | | | | | | | 60 | 40 | | 200 |
| 3 | Government Polytechnic, Neyyattinkara (MPEC) | | | | 50 | 40 | | 50 | | | | | | | | | | | | | | | 190 |
| 4 | Government Polytechnic, Attingal | | 40 | | | | | | 40 | | | 40 | | | | | | | | | | | 120 |
| 5 | Sree Narayana Polytechnic, Kottiyam | 70 | 70 | 70 | | | | | | | | | | | | | | | | | | | 210 |
| 6 | Government Polytechnic, Vennikulam | 40 | | | 50 | | | 50 | | | | 50 | | | | | | | | | | | 190 |
| 7 | Government Polytechnic, Adoor | | 40 | | | | | | | | | | 40 | | | | 40 | | | | | | 120 |
| 8 | N.S.S. Polytechnic, Pandalam | 70 | 70 | 70 | | | | | | | | | | | | | | | | | | | 210 |
| 9 | Government Polytechnic, Cherthala | | | | 40 | 40 | | | 40 | | | | | | | | | | | | | | 120 |
| 10 | Cermet Polytechnic, Alappuzha | 60 | 60 | 60 | | | | | | | | | | | | | | | | | | | 180 |
| 11 | Women's Polytechnic, Kayamkulam | | | | 25 | | | | | | | | | | | | | | 25 | | | | 50 |
| 12 | Government Polytechnic, Kottayam | 50 | 50 | 50 | | | | | | | | | 60 | | | | | | 50 | | | | 310 |
| 13 | Government Polytechnic, Pala | | | | 20 | | | | | | | | | | | | | | | | 20 | | 60 |
| 14 | Government Polytechnic, Muttam | 40 | 40 | 40 | | | | | | | | | | | | | | | | | | | 160 |
| 15 | Government Polytechnic, Kalamassery | 60 | 50 | 50 | | | | | | | | 50 | | 50 | | | | | | | | | 330 |
| 16 | Womens Polytechnic, Kalamassery | | | | 30 | | | | | | | | | | | 20 | | | 30 | | | | 80 |
| 17 | Government Polytechnic, Kothamangalam | 30 | 30 | | 30 | | | | | | | | | | | | | | | | | | 90 |

Contd... Appendix - 9.36

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------|------------------------------------------------------|-----|------|-----|-----|-----|-----|----|----|-----|-----|----|-----|-----|-----|----|----|----|----|----|-----|-----|------|
| 18. | Government Polytechnic, Perumbevoor | 60 | 80 | 60 | 60 | -- | 40 | -- | -- | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 120 |
| 19. | Maharaja Technological Institute Thrissur | 60 | 80 | 60 | 60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 240 |
| 20. | Sree Rame Polytechnic, Velappad | 50 | 50 | 50 | -- | -- | -- | -- | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 200 |
| 21. | Thiagarajes Polytechnic, Alagappanagar | 70 | 70 | 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 210 |
| 22. | Government Polytechnic, Koratty | -- | -- | -- | -- | -- | 40 | -- | -- | -- | -- | -- | 40 | 40 | -- | -- | -- | -- | -- | -- | -- | -- | 120 |
| 23. | Women's Polytechnic, Thrissur | -- | -- | -- | 60 | -- | -- | -- | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 70 | 60 | -- | 170 |
| 24. | Government Polytechnic, Kunnankulam | -- | -- | -- | -- | 40 | -- | -- | -- | 40 | -- | -- | -- | -- | -- | 40 | -- | -- | -- | -- | -- | -- | 120 |
| 25. | Government Polytechnic, Palakkad | 50 | 50 | -- | 50 | -- | -- | -- | -- | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | 250 |
| 26. | G/PT & IPT, Shoranur | -- | -- | -- | 50 | -- | -- | -- | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 70 | -- | -- | 170 |
| 27. | Government Polytechnic, Perintalmenne | 50 | 50 | 50 | 60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 210 |
| 28. | Government Polytechnic, Thirurangadi | -- | -- | -- | 40 | -- | 40 | -- | -- | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 120 |
| 29. | S.S.M. Polytechnic, Tirur | 50 | 60 | 60 | 60 | -- | -- | -- | -- | 40 | -- | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 320 |
| 30. | Womens Polytechnic, Kottakkal (MPEC) | -- | -- | -- | -- | 30 | -- | -- | -- | -- | 30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 60 |
| 31. | K.G.P.T. Kozhikode | 60 | 60 | 60 | -- | -- | -- | -- | -- | 50 | -- | -- | -- | -- | -- | 40 | 50 | -- | -- | -- | -- | -- | 320 |
| 32. | Women's Polytechnic, Kozhikode | -- | -- | -- | 60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 40 | -- | 100 |
| 33. | Government Polytechnic, Kannur | 60 | 60 | 60 | 50 | -- | -- | -- | -- | -- | -- | -- | 60 | 60 | -- | -- | -- | -- | 30 | -- | -- | -- | 320 |
| 34. | Government Polytechnic, Mattannur | -- | 40 | -- | 40 | -- | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 120 |
| 35. | Residential Women's Polytechnic, Payyannur (MPEC) | -- | -- | -- | -- | 40 | 40 | -- | -- | 40 | -- | 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 160 |
| 36. | Government Polytechnic, Meenangadi | 20 | 20 | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 60 |
| 37. | Government Polytechnic, Kasaragod | -- | 50 | 50 | 50 | -- | -- | -- | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 200 |
| 38. | Swami Nithyananda Polytechnic Kanhangad | 50 | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 150 |
| Total | | 990 | 1170 | 880 | 895 | 240 | 200 | 80 | 50 | 700 | 130 | 70 | 240 | 160 | 140 | 90 | 90 | 60 | 30 | 70 | 265 | 110 | 6660 |

Source : Directorate of Technical Education

Appendix - 9.39

Annual intake and Out-turn in Polytechnics in Kerala .

| Year | No. of Polytechnics | | | Students Strength | | | Annual Intake | | | Out-Turn | | |
|---------|---------------------|---------|-------|-------------------|---------|-------|---------------|---------|-------|----------|---------|-------|
| | Govt. | Private | Total | Govt. | Private | Total | Govt. | Private | Total | Govt. | Private | Total |
| 1995-96 | 32 | 6 | 38 | 13696 | 3750 | 17446 | 4920 | 1260 | 8180 | -- | -- | 2378 |
| 1996-97 | 32 | 6 | 38 | 14191 | 3750 | 17941 | 4830 | 1280 | 6090 | -- | -- | -- |
| 1997-98 | 32 | 6 | 38 | 14661 | 3850 | 18511 | 5380 | 1280 | 6680 | -- | -- | 2520 |

Source : Directorate of Technical Education.

Appendix - 9.38

No. of SC/ST Students and SC/ST Teachers in Polytechnics

| Sl. No. | Type of Institutions | Students | | | | Teachers | | | |
|---------|-----------------------------------------|-----------|----------|-----------|----------|-----------|-------|-----------|-------|
| | | 1996 | | 1997 | | 1996 | | 1997 | |
| | | Total No. | SC/ST | Total No. | SC/ST | Total No. | SC/ST | Total No. | SC/ST |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Government & Private Aided Polytechnics | 17959 | 1162/285 | 18511 | 1343/108 | 1501 | 78/4 | 1542 | 86/5 |

Source : Directorate of Technical Education.

Appendix - 9.37

Number of SC/ST Students in Technical Institutions

| Sl. No. | Name of Institutions | SC Students | | | ST Students | | |
|--------------------|------------------------|-------------|------------|-------------|-------------|-----------|------------|
| | | Boys | Girls | Total | Boys | Girls | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Engineering Colleges | 350 | 189 | 539 | 34 | 9 | 43 |
| 2. | Polytechnics | 788 | 555 | 1343 | 88 | 22 | 108 |
| 3. | College of Fine Arts | 16 | -- | 16 | -- | -- | -- |
| 4. | Technical High Schools | 404 | 221 | 625 | 16 | 5 | 21 |
| Grand Total | | 1558 | 965 | 2523 | 136 | 36 | 172 |

Source : Directorate of Technical Education.

Appendix - 9.40

Total Students and Staff Strength in Polytechnics

| Type of Institutions | Students | | | | | | | Teachers | | | | | |
|----------------------|--------------|-------------|--------------|--------------|-------------|--------------|-------------|------------|-------------|-------------|------------|-------------|--|
| | 1996 | | | 1997 | | | | 1996 | | | | 1997 | |
| | Boys | Girls | Total | Boys | Girls | Total | Men | Women | Total | Men | Women | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| Government | 9861 | 4338 | 14199 | 10309 | 4352 | 14661 | 829 | 228 | 1057 | 840 | 230 | 1170 | |
| Private | 2650 | 1110 | 3760 | 2726 | 1124 | 3850 | 324 | 48 | 372 | 324 | 48 | 372 | |
| Total | 12511 | 5448 | 17959 | 13035 | 5476 | 18511 | 1153 | 276 | 1429 | 1164 | 278 | 1542 | |

Source : Directorate of Technical Education.

Appendix - 9.41

Total Students and Staff in Technical High Schools

| Year | Students | | | Teachers | | |
|------|----------|-------|-------|----------|-------|-------|
| | Boys | Girls | Total | Men | Women | Total |
| 1995 | 6233 | 692 | 6925 | 818 | 198 | 1016 |
| 1996 | 5639 | 616 | 6255 | 818 | 198 | 1016 |
| 1997 | 5593 | 562 | 6155 | 826 | 190 | 1016 |

Source : Directorate of Technical Education.

Appendix - 9.42

Medical Institutions and beds under Allopathy System in Kerala 1966 to 1997

| Year | No. of Medical Institutions | | | | | No. of beds | | | | | Growth of Index | | | | | No. of beds per lakh of population (Government Sector only) | | | | | |
|-------|-----------------------------|------|-------|-----|-----|-------------|---|---|---|---|-----------------|---|---|---|---|----------------------------------------------------------------|---|---|---|---|--|
| | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | |
| 1966 | | 490 | 18526 | 100 | 98 | | | | | | | | | | | | | | | | |
| 1967 | | 503 | 19950 | 108 | 101 | | | | | | | | | | | | | | | | |
| 1968 | | 518 | 20166 | 109 | 100 | | | | | | | | | | | | | | | | |
| 1969 | | 529 | 20279 | 109 | 98 | | | | | | | | | | | | | | | | |
| 1970 | | 534 | 21169 | 114 | 100 | | | | | | | | | | | | | | | | |
| 1971 | | 553 | 21777 | 117 | 102 | | | | | | | | | | | | | | | | |
| 1973 | | 783 | 24184 | 130 | 108 | | | | | | | | | | | | | | | | |
| 1975 | | 881 | 25312 | 137 | 108 | | | | | | | | | | | | | | | | |
| 1976 | | 885 | 27568 | 149 | 115 | | | | | | | | | | | | | | | | |
| 1977 | | 888 | 27607 | 149 | 113 | | | | | | | | | | | | | | | | |
| 1978 | | 893 | 28862 | 156 | 116 | | | | | | | | | | | | | | | | |
| 1979 | | 898 | 29947 | 162 | 119 | | | | | | | | | | | | | | | | |
| 1980 | | 918 | 30220 | 163 | 119 | | | | | | | | | | | | | | | | |
| 1981 | | 968 | 32447 | 175 | 127 | | | | | | | | | | | | | | | | |
| 1982 | | 991 | 32532 | 176 | 126 | | | | | | | | | | | | | | | | |
| 1983 | | 1005 | 32880 | 177 | 125 | | | | | | | | | | | | | | | | |
| 1984 | | 1009 | 33380 | 180 | 124 | | | | | | | | | | | | | | | | |
| 1985 | | 1014 | 33329 | 180 | 124 | | | | | | | | | | | | | | | | |
| 1986 | | 1015 | 35740 | 193 | 128 | | | | | | | | | | | | | | | | |
| 1987 | | 1048 | 36344 | 196 | 128 | | | | | | | | | | | | | | | | |
| 1988 | | 1066 | 36668 | 198 | 127 | | | | | | | | | | | | | | | | |
| 1989 | | 1126 | 37100 | 200 | 127 | | | | | | | | | | | | | | | | |
| 1990 | | 1199 | 38223 | 206 | 128 | | | | | | | | | | | | | | | | |
| 1991 | | 1226 | 38726 | 209 | 133 | | | | | | | | | | | | | | | | |
| 1992* | | 1229 | 40496 | 219 | 137 | | | | | | | | | | | | | | | | |
| 1993* | | 1240 | 41018 | 221 | 137 | | | | | | | | | | | | | | | | |
| 1994* | | 1249 | 41651 | 225 | 137 | | | | | | | | | | | | | | | | |
| 1995* | | 1263 | 42126 | 227 | 137 | | | | | | | | | | | | | | | | |
| 1996* | | 1295 | 42569 | 230 | 137 | | | | | | | | | | | | | | | | |
| 1997* | | 1310 | 43165 | 233 | 137 | | | | | | | | | | | | | | | | |

Source : Economic Review, SPB and Statistics for Planning, various Volumes.

* Projected population furnished by the Department of Economics and Statistics is used for calculating the no. of beds per lakh of population.

Appendix - 9.43

Growth of Institutions and Beds (Allopathy) 1950-51 to 1993-94

| Year | Government Hospitals | Government Dispensaries and T.B. Clinics | Primary Health Centres including MCH Centres | Grant in aid institutions with beds | Others including CHCS | Total No. of institutions | Total No. of beds |
|---------|----------------------|------------------------------------------|----------------------------------------------|-------------------------------------|-----------------------|---------------------------|-------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1950-51 | 56 | 135 | 6 | 33 | - | 230 | 6752 |
| 1951-52 | 58 | 134 | 6 | 31 | - | 229 | 7480 |
| 1952-53 | 58 | 138 | 6 | 31 | - | 233 | 7480 |
| 1953-54 | 58 | 146 | 6 | 32 | - | 242 | 8219 |
| 1954-55 | 58 | 156 | 6 | 33 | - | 253 | 8321 |
| 1955-56 | 59 | 150 | 57 | 33 | 4 | 303 | 9405 |
| 1960-61 | 67 | 197 | 82 | - | 10 | 356 | 13006 |
| 1965-66 | 101 | 217 | 157 | 13 | 2 | 490 | 18526 |
| 1966-67 | 105 | 219 | 163 | 14 | 2 | 503 | 19950 |
| 1967-68 | 107 | 230 | 164 | 15 | 2 | 518 | 20166 |
| 1968-69 | 108 | 241 | 163 | 15 | 2 | 529 | 20279 |
| 1969-70 | 108 | 247 | 163 | 14 | 2 | 534 | 21169 |
| 1970-71 | 112 | 261 | 163 | 15 | 2 | 553 | 21777 |
| 1978-79 | 141 | 583 | 164 | 11 | 6 | 905 | 29967 |
| 1979-80 | 144 | 583 | 164 | 11 | 16 | 918 | 30220 |
| 1980-81 | 145 | 646 | 173 | 12 | 6 | 981 | 31206 |
| 1982-83 | 149 | 654 | 184 | 14 | 6 | 1007 | 32428 |
| 1983-84 | 147 | 652 | 192 | 15 | 6 | 1012 | 33320 |
| 1985-86 | 151 | 543 | 299 | 16 | 6 | 1015 | 35740 |
| 1986-87 | 153 | 420 | 444 | 25 | 6 | 1048 | 36344 |
| 1987-88 | 141 | 208 | 547 | 25 | 115 | 1066 | 36668 |
| 1988-89 | 143 | 92 | 740 | 34 | 117 | 1126 | 37100 |
| 1989-90 | 140 | 71 | 883 | 36 | 69 | 1199 | 38223 |
| 1990-91 | 140 | 738 | 908 | 36 | 69 | 1226 | 38726 |
| 1991-92 | 141 | 76 | 907 | 36 | 69 | 1229 | 40496 |
| 1992-93 | 141 | 76 | 918 | 36 | 67 | 1204 | 41018 |
| 1993-94 | 148 | 75 | 924 | 36 | 66 | 1249 | 41651 |
| 1994-95 | 147 | 73 | 940 | 36 | 67 | 1263 | 42126 |
| 1995-96 | 149 | 74 | 961 | 36 | 75 | 1295 | 42569 |
| 1996-97 | 150 | 73 | 956 | 36 | 95 | 1310 | 43165 |

Appendix - 9.44
Spatial Distribution of Medical Institutions and Beds under Allopathy/ District-wise

| District | No. of Medical Institutions | | | No. of Beds | | |
|--------------------|-----------------------------|-------------|-------------|--------------|--------------|--------------|
| | 1996 | 1997 | 1997 | 1996 | 1997 | 1997 |
| Thiruvananthapuram | 114 | 115 | 115 | 6933 | 7216 | 7216 |
| Kollam | 86 | 88 | 88 | 2062 | 2070 | 2070 |
| Pathanamthitta | 61 | 63 | 63 | 941 | 941 | 941 |
| Alappuzha | 90 | 90 | 90 | 4006 | 4006 | 4006 |
| Kottayam | 84 | 84 | 84 | 3366 | 3354 | 3354 |
| Idukki | 64 | 64 | 64 | 840 | 840 | 840 |
| Eranakulam | 114 | 116 | 116 | 3911 | 4038 | 4038 |
| Thrissur | 122 | 122 | 122 | 4093 | 4119 | 4119 |
| Palakkad | 109 | 112 | 112 | 2078 | 2188 | 2188 |
| Malappuram | 122 | 123 | 123 | 2143 | 2161 | 2161 |
| Kozhikode | 93 | 95 | 95 | 4382 | 4395 | 4395 |
| Wayanad | 39 | 39 | 39 | 811 | 811 | 811 |
| Kannur | 101 | 103 | 103 | 2115 | 2115 | 2115 |
| Kasaragod | 60 | 60 | 60 | 667 | 689 | 689 |
| Total | 1259 | 1274 | 1274 | 38348 | 38943 | 38943 |

Appendix - 9.45

District - wise Institutions and beds per lakh of population 1997

| Name of District | No. of Institutions | | No. of Beds | Population (1991) | | No. of beds per lakh of population |
|--------------------|---------------------|------|-------------|-------------------|-----|------------------------------------|
| | 1 | 2 | | 3 | 4 | |
| Thiruvananthapuram | | 115 | 7216 | 29.4 | 245 | |
| Kollam | | 88 | 2070 | 24.08 | 86 | |
| Pathanamthitta | | 63 | 941 | 11.88 | 79 | |
| Alappuzha | | 90 | 4006 | 20.01 | 200 | |
| Kottayam | | 84 | 3354 | 18.28 | 183 | |
| Idukki | | 64 | 840 | 10.78 | 78 | |
| Ernakulam | | 116 | 4038 | 28.17 | 143 | |
| Thrissur | | 122 | 4119 | 27.37 | 150 | |
| Palakkad | | 112 | 2188 | 23.82 | 92 | |
| Malappuram | | 123 | 2161 | 30.96 | 70 | |
| Kozhikode | | 95 | 4395 | 26.20 | 168 | |
| Wayanad | | 39 | 811 | 6.72 | 121 | |
| Kannur | | 103 | 2115 | 22.52 | 94 | |
| Kasaragode | | 60 | 689 | 10.72 | 64 | |
| Total | | 1274 | 38943 | 290.91 | 134 | |

Appendix - 9.46

Medical Institutions and Beds in Kerala - Category - wise - 1997

| District | Hospitals No. | Beds | PHCs including MCH Centres | | Community Health Centres | | Dispensaries No. | Beds | T.B.Clinics/ Centres | | Leprosy Control Clinics/Units/Leprosy sanatorium | No. |
|-------------------|------------------|--------------|-------------------------------|-------------|-----------------------------|-------------|---------------------|------------|-------------------------|------------|--------------------------------------------------------|-----|
| | | | No. | Beds | No. | Beds | | | No. | Beds | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1. Trivandrum | 19 | 6310 | 79 | 416 | 8 | 428 | 7 | 34 | 1 | 28 | 1 | |
| 2. Kollam | 11 | 1636 | 66 | 258 | 6 | 176 | - | - | 2 | - | 3 | |
| 3. Alappuzha | 12 | 3442 | 67 | 256 | 6 | 232 | 2 | - | 2 | 76 | 1 | |
| 4. Pathanamthitta | 7 | 507 | 51 | 257 | 3 | 165 | 1 | - | 1 | 12 | - | |
| 5. Kottayam | 13 | 2477 | 63 | 451 | 6 | 366 | - | - | 2 | 60 | - | |
| 6. Idukki | 3 | 328 | 56 | 366 | 3 | 146 | 1 | - | 1 | - | - | |
| 7. Ernakulam | 22 | 2918 | 79 | 611 | 8 | 401 | 3 | 68 | 4 | 40 | - | |
| 8. Thirssur | 19 | 3405 | 88 | 469 | 7 | 239 | 5 | 6 | 1 | - | 2 | |
| 9. Palakkad | 9 | 1131 | 87 | 737 | 6 | 320 | 8 | - | 1 | - | 1 | |
| 10. Malappuram | 8 | 1337 | 98 | 570 | 6 | 202 | 6 | - | 2 | 52 | 3 | |
| 11. Kozhikode | 11 | 3972 | 71 | 166 | 7 | 257 | 3 | - | 1 | - | 2 | |
| 12. Wayanad | 3 | 374 | 25 | 216 | 5 | 221 | 5 | - | 1 | - | - | |
| 13. Kannur | 10 | 1709 | 79 | 204 | 5 | 156 | 8 | 46 | 1 | - | - | |
| 14. Kasaragod | 3 | 433 | 47 | 123 | 4 | 133 | 3 | - | 1 | - | 2 | |
| Total | 150 | 29979 | 956 | 5100 | 80 | 3442 | 52 | 154 | 21 | 268 | 15 | |

Appendix - 9.47
Rural Health Infrastructure - 1996-1997

| Primary Health Centre | | | Community Health Centre | | | Sub Centre | | |
|-----------------------|------|--|-------------------------|------|--|------------|------|--|
| No. | Beds | | No. | Beds | | No. | Beds | |
| 2 | 3 | | 4 | 5 | | 6 | 7 | |
| 299 | 2880 | | -- | -- | | 2774 | -- | |
| 444 | 3400 | | -- | -- | | 3374 | -- | |
| 577 | 3274 | | 29 | 2226 | | 3874 | -- | |
| 740 | 3686 | | 29 | 2292 | | 4374 | -- | |
| 883 | 4480 | | 54 | 3127 | | 5094 | -- | |
| 908 | 4714 | | 54 | 3159 | | 5094 | -- | |
| 907 | 5031 | | 54 | 3216 | | 5094 | -- | |
| 918 | 5116 | | 54 | 3285 | | 5094 | -- | |
| 924 | 5228 | | 51 | 2772 | | 5094 | -- | |
| 940 | 5371 | | 52 | 2797 | | 5094 | -- | |
| 961 | 5338 | | 60 | 3007 | | 5094 | -- | |
| 956 | 5100 | | 80 | 3442 | | 5094 | -- | |

Appendix - 9.48
Medical and Paramedical personnel in the Health Services Department

| Sl.No. | Category | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1. | Medical Officers | 2905 | 3134 | 3251 | 3284 | 3365 | 3460 |
| 2. | Dentists | 66 | 66 | 66 | 70 | 69 | 71 |
| 3. | Senior Nurses | 1954 | 1954 | 1954 | 1954 | 1958 | 1954 |
| 4. | Junior Nurses | 4137 | 4137 | 4195 | 4195 | 4201 | 4707 |
| 5. | Lady Health Inspectors | 894 | 923 | 923 | 923 | 913 | 912 |
| 6. | Pharmacists | 1681 | 1681 | 1681 | 1681 | 1680 | 1757 |
| 7. | Junior PH Nurses (ANMS) | 5281 | 5508 | 5533 | 5911 | 5926 | 5911 |
| 8. | Junior Health Inspectors | 4505 | 4505 | 4505 | 4505 | 4502 | 4505 |
| 9. | Health Inspectors | 845 | 845 | 845 | 845 | 850 | 845 |
| Total | | 22268 | 22753 | 22953 | 23368 | 23464 | 24122 |

Appendix - 9.49
District - Wise Number of Medical and Paramedical Personnel under DHS - 1997

| Districts | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------|------------------|----------|---------------|---------------|------------------------|-------------|-------------|--------------------------|-------------------|----|
| | Medical Officers | Dentists | Senior Nurses | Junior Nurses | Lady Health Inspectors | Pharmacists | JPHN (ANMS) | Junior Health Inspectors | Health Inspectors | |
| Thiruvananthapuram | 406 | 11 | 351 | 811 | 72 | 90 | 508 | 296 | 75 | |
| Kollam | 283 | 5 | 86 | 248 | 79 | 95 | 427 | 291 | 88 | |
| Pathanamthitta | 114 | 5 | 39 | 127 | 44 | 61 | 251 | 101 | 44 | |
| Alappuzha | 245 | 7 | 161 | 553 | 77 | 134 | 387 | 207 | 53 | |
| Kottayam | 203 | 5 | 118 | 460 | 55 | 82 | 328 | 210 | 49 | |
| Idukki | 107 | 3 | 26 | 104 | 62 | 67 | 331 | 288 | 56 | |
| Ernakulam | 360 | 9 | 184 | 414 | 74 | 135 | 418 | 257 | 62 | |
| Thrissur | 301 | 8 | 102 | 511 | 99 | 145 | 499 | 328 | 79 | |
| Palakkad | 256 | 5 | 77 | 261 | 82 | 118 | 512 | 301 | 126 | |
| Malappuram | 275 | 6 | 55 | 277 | 97 | 133 | 589 | 334 | 83 | |
| Kozhikode | 293 | 8 | NA | NA | 76 | NA | NA | NA | 45 | |
| Wayanad | 77 | 2 | 29 | 89 | 34 | 38 | 205 | 126 | 30 | |
| Kannur | 254 | 4 | 113 | 353 | 81 | 116 | 426 | 292 | 77 | |
| Kasaragod | 119 | 3 | 33 | 133 | 40 | 57 | 283 | 168 | 38 | |

Appendix - 9.50

District - wise availability of Vehicles under DHS - 1997

| District | Vehicles in Running Condition | Vehicles in Workshop | Others | Total |
|-----------------------|-------------------------------|----------------------|--------|-------|
| 1 | 2 | 3 | 4 | 5 |
| 1. Thiruvananthapuram | 116 | 8 | 27 | 151 |
| 2. Kollam | 48 | 5 | 8 | 81 |
| 3. Pathanamthitta | 25 | 9 | 9 | 43 |
| 4. Alappuzha | 36 | 4 | 19 | 59 |
| 5. Kottayam | 35 | 10 | 17 | 62 |
| 6. Idukki | 31 | 20 | 3 | 54 |
| 7. Ernakulam | 47 | 3 | 13 | 63 |
| 8. Thrissur | 49 | 4 | 6 | 59 |
| 9. Palakkad | 66 | 9 | 13 | 88 |
| 10. Malappuram | 67 | 8 | 17 | 92 |
| 11. Kozhikode | N.R | N.R | N.R | N.R |
| 12. Kannur | 39 | 4 | 12 | 55 |
| 13. Kasaragod | 20 | 9 | -- | 29 |
| 14. Wayanad | 32 | -- | -- | 32 |

Appendix - 9.51

Statement showing No. of attack and death due to principal communicable diseases during 1996

| Sl.No. | Name of Disease | Attack 1996 | Death 1996 |
|--------|-----------------------------|-------------|------------|
| 1. | Acute Diarrhoeal diseases | 675648 | 117 |
| 2. | Diphtheria | 7 | -- |
| 3. | Acute Poliomyelitis | -- | -- |
| 4. | Tetanus - Others | 17 | 6 |
| 5. | Neonatal Tetanus | -- | -- |
| 6. | Whooping Cough | 1207 | -- |
| 7. | Measles | 6787 | -- |
| 8. | Acute Respiratory Infection | 3680295 | 143 |
| 9. | Pneumonia | 23180 | 25 |
| 10. | Enteric Fever | 5636 | -- |
| 11. | Viral Hepatitis | 13915 | 10 |
| 12. | Japanese Encephalitis | 106 | 32 |
| 13. | Menningoeocea Menningitis | 86 | 10 |
| 14. | Rabies | 132 | 17 |
| 15. | Syphillis | 569 | -- |
| 16. | Gonococcal Infection | 362 | -- |
| 17. | Pulmonary Tuberculosis | 36629 | 241 |
| 18. | All Other Diseeses | 12467390 | 4148 |
| 19. | Gunica Worm | -- | -- |

Appendix - 9.52

Prevalence rate of Public Health Diseases in Kerala 1997

| Sl.No. | Name of Disease | Prevalence rate per 1000 population in Kerala |
|--------|-------------------------------------------------|-----------------------------------------------|
| 1. | Leprosy | 0.22 |
| 2. | Tuberculosis | 0.13 |
| 3. | Filaria | 0.34 |
| 4. | Acute Diarrhoeal Diseases | 173.3 |
| 5. | Diphtheria | 0.012 |
| 6. | Polio Mylitis | NA |
| 7. | Tetanus | 0.03 |
| 8. | Whooping Cough | 0.31 |
| 9. | Measles | 1.74 |
| 10. | Acute Respiratory infection including pneumonia | 949.63 |
| 11. | Malaria | 0.36 |

Prevalence rate is calculated per 1000 population exposed to risk

Appendix - 9.53

Morbidity Rates per 1000 for Chronic Illness

| Illness | Females | Males |
|--------------|---------|-------|
| Diarrhoea | 27.4 | 22.5 |
| Fever | 117.9 | 119.5 |
| Malaria | 0.34 | 0.35 |
| Filaria | 0.23 | 0.18 |
| Chicken Pox | 0.51 | 0.35 |
| Measles | 0.48 | 0.71 |
| Mumps | 0.61 | 0.32 |
| Diphtheria | 0.27 | 0.14 |
| Tetanus | 0.1 | 0.28 |
| Jaundice | 2.7 | 2.9 |
| Typhoid | 0.2 | 0.35 |
| Asthma | 5.5 | 4.7 |
| Pneumonia | 0.57 | 0.46 |
| Heart Attack | 0.95 | 1.3 |
| Paralysis | 2.0 | 1.9 |
| Diabetes | 1.6 | 1.3 |
| Hypertension | 2.3 | 1.7 |
| Goitre | 0.48 | 0.21 |
| Allergy | 3.0 | 2.6 |
| Others | 58.0 | 50.6 |
| Total | 209.2 | 203.4 |

Source :Health and Development in Rural Kerala (KSSP)

Appendix - 9.54

Chronic Illness to women and men (per 1000)

| Illness | Females | Males |
|------------------------|---------|--------|
| Leprosy | 0.37 | 0.50 |
| Tuberculosis | 4.05 | 8.60 |
| Filaria | 0.78 | 0.74 |
| Bronchitis Asthma | 16.80 | 16.30 |
| Hypertension | 14.60 | 8.90 |
| Heart disease | 4.40 | 5.60 |
| Cancer | 1.00 | 0.81 |
| Peptic ulcer | 4.40 | 9.90 |
| Diseases of Uterus | 9.10 | -- |
| Urinary disease | 4.80 | 4.70 |
| Bone and Joint disease | 22.50 | 13.90 |
| Goitre | 3.20 | 0.99 |
| Diabetes | 2.90 | 3.90 |
| Others | 66.40 | 61.90 |
| Total | 155.80 | 137.50 |

Source : Health and Development in Rural Kerala (KSSP)

Appendix - 9.55

| Medical College Hospitals | No. of Delivery cases attended during 1996 | |
|---------------------------|--------------------------------------------|-----------|
| | Normal | Caesarean |
| 1. Thiruvanthapuram | 8974 (Normal) 5537 (Abnormal) | 3749 |
| 2. Kozhikode | 20779 | 4102 |
| 3. Kottayam | 6451 | 2664 |
| 4. Alappuzha | 5663 | 1026 |
| 5. Thrissur | 4568 | |

Appendix - 9.56

Details of Personnel (Clinical/Non-Clinical) under Directorate of Medical Education

| Sl. No. | Category | No. of Clinical/Non Clinical Personnel | | | | | | |
|--------------------------|------------------------|----------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| 1. | Director end Professor | -- | -- | -- | -- | -- | -- | -- |
| 2. | Professor | 186 | 188 | 188 | 190 | 191 | 198 | 207 |
| 3. | Associate Professor | 193 | 194 | 195 | 202 | 212 | 214 | 240 |
| 4. | Assistent Professor | 422 | 425 | 425 | 432 | 438 | 461 | 379 |
| 5. | Tutor/Lecutre | 687 | 692 | 697 | 714 | 729 | 822 | 611 |
| Nursing Education | | | | | | | | |
| 6. | Director | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 7. | Professor | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 8. | Associate Professor | 16 | 16 | 16 | 16 | 16 | 16 | 15 |
| 9. | Assistant Professor | 22 | 22 | 22 | 22 | 22 | 22 | 23 |
| 10. | Tutor | 37 | 37 | 37 | 37 | 37 | 37 | 42 |
| M.L.T Course | | | | | | | | |
| 11. | Director | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 12. | Assistent Professor | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 13. | Tutor | 4 | 4 | 4 | 4 | 4 | 14 | 14 |
| 14. | Tutor Technician | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Dental | | | | | | | | |
| 15. | Principal | -- | -- | -- | -- | -- | -- | 2 |
| 16. | Professor | 18 | 19 | 19 | 19 | 19 | 19 | 16 |
| 17. | Associate Professor | 4 | 4 | 4 | 4 | 6 | 6 | 6 |
| 18. | Assistant Professor | 24 | 25 | 25 | 24 | 23 | 23 | 25 |
| 19. | Tutor/Lecutre | 36 | 36 | 36 | 36 | 36 | 34 | 44 |
| Pharmacy | | | | | | | | |
| 20. | Director | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 21. | Professor | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 22. | Associate Professor | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 23. | Assistant Professor | 10 | 10 | 11 | 11 | 11 | 11 | 11 |
| 24. | Lecture | 26 | 26 | 26 | 26 | 26 | 26 | 27 |
| Total | | 1721 | 1734 | 1741 | 1773 | 1806 | 1939 | 1699 |

Appendix - 9.57

**Medical and para-medical courses conducted in the
Medical College with an annual intake of students**

| Name of Course | No. of seats in Medical Colleges | | | | | |
|---------------------------------------|----------------------------------|------------|------------|------------|------------|--|
| | Thiruvananthapuram | Kozhikode | Kottayam | Alappuzha | Thrissur | |
| 1 | 2 | 3 | 4 | 5 | 6 | |
| 1. M.B.B.S. | 200 | 200 | 100 | 100 | 100 | |
| 2. B.D.S. | 40 | 40 | -- | -- | -- | |
| 3. B.Sc. Nursing | 50 | 50 | 50 | -- | -- | |
| Sub total | 290 | 290 | 150 | 100 | 100 | |
| Post Graduate Courses | | | | | | |
| 1. M.Sc.Nursing | 16 | 8 | -- | -- | -- | |
| 2. M.D.S. | 18 | 6 | -- | -- | -- | |
| 3. M.D.Anaesthesia | 7 | 5 | 3 | -- | -- | |
| 4. M.D.Biochemistry | 1 | 2 | -- | -- | -- | |
| 5. M.D.Forensic Medicine | 2 | 1 | -- | -- | -- | |
| 6. M.D.Dermatology and Venereology | 3 | 3 | 2 | -- | -- | |
| 7. M.D.General Medicine | 10 | 9 | 6 | 1 | -- | |
| 8. M.D.Microbiology | 2 | 1 | -- | -- | -- | |
| 9. M.D.Obstetrics and Gynaecology | 8 | 6 | 3 | -- | -- | |
| 10. M.D.Pathology | 5 | 1 | 2 | -- | -- | |
| 11. M.D.Pharmacology | 3 | 1 | -- | -- | -- | |
| 12. M.D. Physiology | 2 | 2 | 1 | -- | -- | |
| 13. M.D. Peadietric | 5 | 4 | 2 | -- | -- | |
| 14. M.D. Psychiatry | 1 | 2 | -- | -- | -- | |
| 15. M.D.Radio Diagnosis | 2 | 2 | -- | -- | 2 | |
| 16. M.D. Radiotherapy | 2 | -- | -- | -- | -- | |
| 17. M.D. Community Medicine | 2 | 2 | 1 | -- | -- | |
| 18. M.D.T.B. and Respiratory Diseases | 3 | 2 | -- | -- | -- | |

Contd... Appendix - 9.57

| | | | | | |
|------------------------------------------|------------|-----------|-----------|-----------|-----------|
| 19. M.S. Anatomy | 1 | 2 | 2 | -- | -- |
| 20. M.S. ENT | 1 | 2 | 1 | -- | -- |
| 21. M.S. General Surgery | 15 | 9 | 7 | 1 | -- |
| 22. M.S. Orthopaedics | 3 | 3 | 2 | -- | -- |
| 23. Ophthalmology | 3 | 3 | 2 | -- | -- |
| Sub Total | 113 | 76 | 34 | 2 | 2 |
| Super Speciality Course | | | | | |
| 1. Mch. Paediatric Surgery | 2 | 2 | -- | -- | -- |
| 2. Mch. Plastic Surgery | 2 | 2 | 1 | -- | -- |
| 3. Mch. Genito Urinary Surgery | 2 | 2 | 1 | -- | -- |
| 4. Mch. Thoracic Surgery | 2 | 2 | 1 | -- | -- |
| 5. Mch. Neuro Surgery | 2 | 1 | 2 | -- | -- |
| 6. D.M.Gastro Enterology | 2 | 1 | -- | -- | -- |
| 7. D.M.Neurology | 1 | 1 | 1 | -- | -- |
| 8. D.M.Cardiology | 2 | 1 | 2 | -- | -- |
| 9. Mch.Gastro Enterology and Surgery | 2 | -- | -- | -- | -- |
| 10. D.M.Nephrology | 1 | 1 | 1 | -- | -- |
| Sub Total | 18 | 13 | 9 | -- | -- |
| Diploma Courses | | | | | |
| 1. Diploma In Anaesthesia | 6 | 4 | 5 | -- | -- |
| 2. Diploma in Child Health | 5 | 9 | 4 | -- | -- |
| 3. Diploma in Clinical Pathology | 3 | 4 | -- | -- | -- |
| 4. Diploma in Dermatology and Venerology | -- | 2 | -- | -- | -- |
| 5. Diploma in Laryngology and Otology | 6 | 4 | 2 | -- | -- |
| 6. D.M.R.D | 2 | 1 | -- | -- | -- |
| 7. D.M.R.T | 2 | 2 | -- | -- | -- |
| 8. Diploma in Obstetrics and Gynaecology | 9 | 9 | 7 | -- | -- |
| 9. Diploma in Ophthalmology | 2 | 5 | 3 | -- | -- |
| 10. Diploma in Orthopaedic Surgery | 6 | 5 | 4 | -- | -- |

Contd... Appendix - 9.57

| | | | | | | |
|---------------------------------------|-------------------------------------------------|------------|------------|------------|------------|------------|
| 11. | Diploma in Physical Medicine and Rehabilitation | 4 | 4 | -- | -- | -- |
| 12. | Diploma in Psychiatric Medicine | 5 | -- | -- | -- | -- |
| 13. | Diploma in Public Health | 9 | -- | -- | -- | -- |
| 14. | D.T.C.D | 2 | 3 | -- | -- | -- |
| | Sub Total | 61 | 52 | 25 | -- | -- |
| Diploma / Certificate Courses. | | | | | | |
| 1. | B.Pharm | 28 | -- | -- | -- | -- |
| 2. | M.Pharm | 8 | -- | -- | -- | -- |
| 3. | B.Sc. MLT | 24 | -- | -- | -- | -- |
| 4. | MLT Certificate (2Years) | 40 | 50 | 15 | 15 | 15 |
| | | 20* | | | | |
| 5. | C.R.A Certificate (2Years) | 10 | 30 | 15 | 10 | 15 |
| | | 30* | | | | |
| 6. | Ophthalmic Assistant Certificate (2Years) | 10 | 20 | 15 | 5 | 5 |
| | | 20* | | | | |
| 7. | D.Pharm (2Years) | 20 | 50 | 30 | 35 | -- |
| | | 30* | | | | |
| 8. | Dental Mechanic Certificate Course(2Years) | 10 | -- | -- | -- | -- |
| | | 10* | | | | |
| 9. | Dental Hygienst Certificate Course | 10 | -- | -- | -- | -- |
| | | 30 | 30 | -- | -- | -- |
| | Sub Total | 190 | 180 | 75 | 65 | 35 |
| | | 110* | | | | |
| | Total | 672 | 611 | 293 | 167 | 137 |
| | | 110* | | | | |

*Courses conducted in the Priyadarsini Institute of Paramedical Science, Thiruvananthapuram. (SC/ST only)

Appendix - 9.58

Annual Intake of Nursing Courses on different categories during 1996

| Sl.No. | Institutions | Number of Institutions | Total Annual Intake |
|-------------|---------------------------------------------------------------|------------------------|---------------------|
| I. | Intetrated (General Nurse-cum-Mid-wives) 3Years Course | | |
| | a. Government Nursing Schools | 9 | 297 |
| | b. Private Nursing Schools | 70 | 1845 |
| | c. Medical College, Kozhikode | 1 | 30 |
| | d. Medical College, Kottayam | 1 | -- |
| | e. Medical College, Thiruvananthapuram | 1 | 30 |
| II. | Junior Public Health Nurses (18 moths course) | | |
| | a. Government Nursing Schools | 13 | 515 |
| | b. Private Nursing Schools | 18 | 501 |
| III. | B.Sc. Nursing (4 Years Course) | | |
| | a. Medical College, Thiruvananthapuram | 1 | 50 |
| | b. Medical College, Kottayam | 1 | 50 |
| | c. Medical College, Kozhikode | 1 | 50 |
| IV. | M.Sc Nursing | | |
| | a. Medical College, Thiruvananthapuram | 1 | 16 |
| | b. Medical College, Kozhikode | 1 | 8 |

Appendix - 9.59

**Medical practitioners, hospitals, dispensaries and beds under
Ayurveda during 1975-1997**

| Year | No. of Medical Practitioners | No. of Hospitals | No. of Dispensaries | No. of Beds |
|---------|---------------------------------|---------------------|------------------------|----------------|
| 1975-76 | 10318 | 65 | 482 | 1282 |
| 1976-77 | 10484 | 67 | 401 | 1362 |
| 1977-78 | 10613 | 67 | 401 | 1362 |
| 1978-79 | 10792 | 68 | 406 | 1438 |
| 1979-80 | 11028 | 85 | 410 | 1818 |
| 1980-81 | 11043 | 85 | 419 | 1618 |
| 1981-82 | 11224 | 92 | 439 | 1639 |
| 1982-83 | 11410 | 93 | 453 | 1674 |
| 1983-84 | 11550 | 93 | 455 | 1702 |
| 1984-85 | 11696 | 94 | 457 | 1679 |
| 1985-88 | 11835 | 94 | 473 | 1689 |
| 1986-87 | 11902 | 97 | 497 | 1769 |
| 1987-88 | 12047 | 101 | 496 | 1869 |
| 1988-89 | 12250 | 101 | 498 | 1929 |
| 1989-90 | 12431 | 101 | 506 | 1979 |
| 1990-91 | 12573 | 105 | 529 | 2229 |
| 1991-92 | 12748 | 105 | 550 | 2229 |
| 1992-93 | 12894 | 108 | 566 | 2259 |
| 1993-94 | 13034 | 107 | 579 | 2309 |
| 1994-95 | 13185 | 108 | 584 | 2329 |
| 1995-96 | 13800 | 108 | 587 | 2349 |
| 1998-97 | NA | 108 | 614 | 2349 |

Appendix - 9.60

**District-wise distribution of Institutions, beds and patients treated under
Ayurvedic system of Medicine in Kerala - 1996 and 1997**

| Sl. No. | District | No. of Hospitals | | No. of Beds | | No. of Dispensaries | | Total No. of Institutions | | Total No. of Patients treated in 1997 | |
|---------|--------------------|------------------|------------|-------------|-------------|---------------------|------------|---------------------------|------------|---------------------------------------|-----------------|
| | | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | Inpatients | Outpatients |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Thiruvananthapuram | 13 | 13 | 255 | 255 | 52 | 53 | 65 | 66 | 6488 | 1962432 |
| 2. | Kollam | 9 | 9 | 190 | 190 | 38 | 40 | 47 | 49 | 3067 | 1409499 |
| 3. | Alappuzha | 10 | 10 | 180 | 180 | 43 | 45 | 53 | 55 | 1443 | 1885505 |
| 4. | Pathanamthitta | 4 | 4 | 80 | 80 | 34 | 35 | 38 | 39 | 685 | 1012978 |
| 5. | Kottayam | 8 | 8 | 150 | 150 | 33 | 36 | 41 | 44 | 1395 | 1090479 |
| 6. | Idukki | 3 | 3 | 110 | 110 | 27 | 28 | 30 | 31 | 1310 | 260961 |
| 7. | Ernakulam | 13 | 13 | 230 | 230 | 49 | 51 | 62 | 64 | 2973 | 2056589 |
| 8. | Thrissur | 14 | 14 | 243 | 243 | 69 | 71 | 83 | 85 | 3249 | 1709432 |
| 9. | Palakkad | 5 | 5 | 130 | 130 | 55 | 57 | 60 | 62 | 2299 | 1087292 |
| 10. | Malappuram | 10 | 10 | 200 | 200 | 55 | 57 | 65 | 67 | 1355 | 2013629 |
| 11. | Kozhikode | 6 | 6 | 170 | 170 | 39 | 42 | 45 | 48 | 1399 | 1218462 |
| 12. | Wayanad | 2 | 2 | 100 | 100 | 19 | 20 | 21 | 22 | 398 | 528303 |
| 13. | Kannur | 6 | 6 | 211 | 211 | 45 | 48 | 51 | 54 | 3163 | 1051639 |
| 14. | Kasaragode | 5 | 5 | 100 | 100 | 30 | 31 | 35 | 36 | 941 | 608675 |
| | Total | 108 | 108 | 2349 | 2349 | 588 | 614 | 696 | 722 | 30165 | 17695875 |

Appendix - 9.61
Number of Medical Institutions and Beds-Homoeopathy (1970-71 to 1996-97)

| Year | Hospitals | Dispensaries | Total No. of Institutions | Beds |
|---------|-----------|--------------|---------------------------|------|
| 1970-71 | 2 | 45 | 47 | |
| 1975-76 | 8 | 113 | 121 | 250 |
| 1978-79 | 10 | 133 | 143 | 300 |
| 1979-80 | 16 | 154 | 170 | 510 |
| 1980-81 | 17 | 159 | 176 | 535 |
| 1981-82 | 22 | 191 | 213 | 650 |
| 1982-83 | 23 | 200 | 223 | 675 |
| 1983-84 | 23 | 200 | 223 | 675 |
| 1984-85 | 23 | 200 | 223 | 675 |
| 1985-86 | 24 | 227 | 251 | 700 |
| 1986-87 | 24 | 255 | 279 | 715 |
| 1987-88 | 24 | 265 | 279 | 715 |
| 1988-89 | 24 | 262 | 286 | 715 |
| 1989-90 | 24 | 274 | 298 | 715 |
| 1990-91 | 30 | 312 | 342 | 900 |
| 1991-92 | 30 | 338 | 368 | 900 |
| 1992-93 | 31 | 360 | 391 | 950 |
| 1993-94 | 31 | 374 | 405 | 950 |
| 1994-95 | 31 | 384 | 415 | 950 |
| 1995-96 | 31 | 394 | 425 | 950 |
| 1996-97 | 31 | 405 | 436 | 950 |

District-wise Distribution of Institutions and Beds under Homeopathy (1996-1997)

| Sl. No. | District | No. of Hospitals | | No. of Beds | | No. of Dispensaries | | Total No. of Institutions | | Total No. of Patients treated in 1997 | |
|---------|--------------------|------------------|------|-------------|------|---------------------|------|---------------------------|------|---------------------------------------|-------------|
| | | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | 1996 | 1997 | Inpatients | Outpatients |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Thiruvananthapuram | 4 | 4 | 175 | 175 | 38 | 40 | 42 | 44 | 3673 | 1720414 |
| 2. | Kollam | 3 | 3 | 75 | 75 | 29 | 29 | 32 | 32 | 1239 | 1032751 |
| 3. | Pathanamthitta | 1 | 1 | 25 | 25 | 20 | 20 | 21 | 21 | 100 | 399955 |
| 4. | Alappuzha | 3 | 3 | 75 | 75 | 30 | 31 | 33 | 34 | 828 | 1093390 |
| 5. | Kottayam | 3 | 3 | 175 | 175 | 33 | 34 | 36 | 37 | 2557 | 1020859 |
| 6. | Idukki | 2 | 2 | 50 | 50 | 26 | 26 | 28 | 28 | 926 | 443452 |
| 7. | Ernakulam | 3 | 3 | 75 | 75 | 42 | 42 | 45 | 45 | 375 | 1155284 |
| 8. | Thrissur | 1 | 1 | 25 | 25 | 28 | 30 | 29 | 31 | 863 | 513729 |
| 9. | Palakkad | 1 | 1 | 25 | 25 | 27 | 28 | 28 | 29 | 237 | 337984 |
| 10. | Malappuram | 2 | 2 | 50 | 50 | 32 | 33 | 34 | 35 | 322 | 580237 |
| 11. | Kozhikode | 3 | 3 | 75 | 75 | 33 | 34 | 36 | 37 | 581 | 787941 |
| 12. | Wayanad | 1 | 1 | 25 | 25 | 13 | 14 | 14 | 15 | 131 | 179464 |
| 13. | Kannur | 1 | 1 | 25 | 25 | 26 | 27 | 27 | 28 | 627 | 430856 |
| 14. | Kasaragode | 3 | 3 | 75 | 75 | 17 | 17 | 20 | 20 | 138 | 308217 |
| | Total | 31 | 31 | 950 | 950 | 394 | 405 | 425 | 438 | 12597 | 10004533 |

Appendix - 9.63

Medical Practitioners (Numbers Cum)

| Sl.No. | System | Class of Registration | | | 1996 | 1997 |
|--------|-----------------|-----------------------|---------------------|---------------------|------|------|
| 1 | 2 | 3 | 4 | 5 | 6 | |
| 1. | Modern Medicine | A | 24044 | 25133 | | |
| | | B | 635 | 635 | | |
| | | Listed | 204 | 204 | | |
| | | Sub Total | <u>24883</u> | <u>25972</u> | | |
| 2. | Homoeopathy | A | 5488 | 5834 | | |
| | | B | 1486 | 1486 | | |
| | | Listed | 279 | 279 | | |
| | | Sub Total | <u>7253</u> | <u>7599</u> | | |
| 3. | Ayurveda | A | 6630 | 6731 | | |
| | | B | 6100 | 6100 | | |
| | | Listed | 599 | 599 | | |
| | | Sub Total | <u>13329</u> | <u>13430</u> | | |
| 4. | Sidha | A | 120 | 122 | | |
| | | B | 1218 | 1218 | | |
| | | Listed | 41 | 41 | | |
| | | Sub Total | <u>1379</u> | <u>1381</u> | | |
| 5. | Unani | A | 3 | 3 | | |
| | | B | 51 | 51 | | |
| | | Listed | 5 | 5 | | |
| | | Sub Total | <u>59</u> | <u>59</u> | | |
| | | Grand Total | <u>46903</u> | <u>48441</u> | | |

Appendix - 9.64

List of Registered Para-Medical Practitioners (Number Cum)

| Sl.No. | Category | 1998 | | | 1997 | | | Total |
|--------------------|----------------------------------------|------------|--------------|--------------|------------|--------------|--------------|-------|
| | | Male | Fesmale | Total | Mele | Female | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 1. | Nurse | 342 | 15624 | 15966 | 398 | 17011 | 17409 | |
| 2. | Midwife | 42 | 14329 | 14371 | 98 | 15650 | 15748 | |
| 3. | Nurses and Midwives (Integrated) | -- | 19392 | 19392 | -- | 21483 | 21483 | |
| 4. | Auxiliary Nurse Mid wife | -- | 13677 | 13677 | -- | 14602 | 14602 | |
| 5. | Health Visitors | -- | 318 | 318 | -- | 318 | 318 | |
| Grand Total | | 384 | 63340 | 63724 | 496 | 69064 | 69560 | |

Appendix - 9.65

District-wise Number of Family Welfare Centres - 1997

| Sl.No. | District | Rural | | | Total |
|--------------|--------------------|--------------|-------------|-------------|-------|
| | | Main Centres | Sub Centres | Total | |
| 1. | Thiruvananthapuram | 74 | 381 | 455 | |
| 2. | Kollam | 61 | 388 | 449 | |
| 3. | Alappuzha | 65 | 303 | 368 | |
| 4. | Pathanamthitta | 45 | 215 | 260 | |
| 5. | Kottayam | 51 | 308 | 359 | |
| 6. | Idukki | 51 | 180 | 231 | |
| 7. | Ernakulam | 73 | 278 | 351 | |
| 8. | Thrissur | 79 | 413 | 492 | |
| 9. | Palakkad | 79 | 392 | 471 | |
| 10. | Malappuram | 89 | 419 | 508 | |
| 11. | Kozhikode | 63 | 326 | 389 | |
| 12. | Wayanad | 27 | 177 | 204 | |
| 13. | Kannur | 70 | 282 | 352 | |
| 14. | Kasaragod | 44 | 161 | 205 | |
| Total | | 871 | 4223 | 5094 | |

Target and Achievement of Family Welfare Programme

| Sl. No. | Item | 1996 | | 1997 | |
|---------|-----------------------------------------------------------------------|--------|-------------|---------|-------------|
| | | Target | Achievement | Target | Achievement |
| I. | Family Welfare Programme | | | | |
| a) | Streilization (Vasectomy, Tubectomy) | - | 167094 | - | 166513 |
| b) | I.U.D.Insertion | - | 81613 | - | 75372 |
| c) | C.C.Users | - | 258728 | - | 223511 |
| d) | O.P.Users | - | 35806 | - | 34614 |
| II. | M.C.H.Programme | | | | |
| a) | Immunisation Programme | | | | |
| (i) | Polio | - | 553641 | 548300 | 584887 |
| (ii) | B.C.G. | - | 582429 | 548300 | 593855 |
| (iii) | Measles | - | 480535 | 548300 | 519183 |
| (iv) | T.T. for Pregnant women | - | 494561 | 582700 | 507257 |
| (v) | D.P.T. | - | 540119 | 548300 | 568270 |
| (vi) | D.T. for 5 years | - | 326661 | 589600 | 377029 |
| (vii) | T.T.for 10 years | - | 351055 | 611300 | 375403 |
| (viii) | T.T. for 16 years | - | 337777 | 595000 | 351567 |
| b) | Prophylaxiz against nutritional anaemia | | | | |
| (i) | Women | - | - | 582700 | 849936 |
| (ii) | Children | | | | |
| c) | Prophylaxis against Blindness due to vitamin A deficiency in children | - | 408776 | 1723500 | 1374671 |

Appendix - 9.67

Family Welfare Programmes in 1996-97 - District-wise

| District | Vasectomy | PPS | Minilap | Laposcopic | Total (3+4+5) | Nirodh Supplied | Oral pills Supplied |
|-----------------------|------------|--------------|--------------|--------------|------------------|--------------------|------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. Thiruvananthapuram | 14 | 12385 | 1936 | 2326 | 16647 | 2676725 | 43718 |
| 2. Kollam | 16 | 13965 | 1662 | 798 | 16425 | 1528851 | 49382 |
| 3. Alappuzha | 60 | 6398 | 1322 | 65 | 7785 | 891289 | 30944 |
| 4. Pathanamthitta | 2 | 3575 | 418 | 1423 | 5416 | 642663 | 16236 |
| 5. Kottayam | 13 | 3969 | 344 | 2248 | 6561 | 1015379 | 29843 |
| 6. Idukki | 9 | 2756 | 601 | 1026 | 4383 | 1011664 | 16945 |
| 7. Ernakulam | 75 | 8786 | 423 | 1813 | 11022 | 1660519 | 33087 |
| 8. Thrissur | 31 | 7176 | 788 | 1412 | 9376 | 1164738 | 41869 |
| 9. Palakkad | 4 | 6297 | 532 | 4091 | 10920 | 1000830 | 31697 |
| 10. Malappuram | 4 | 7497 | 730 | 248 | 8475 | 1044368 | 32234 |
| 11. Kozhikode | 50 | 11201 | 2665 | 113 | 13979 | 857481 | 34941 |
| 12. Wayanad | 21 | 4000 | 327 | - | 4327 | 678391 | 18109 |
| 13. Kannur | 20 | 5989 | 750 | 27 | 6766 | 1112504 | 46154 |
| 14. Kasaragode | 7 | 1966 | 330 | 422 | 2718 | 811321 | 24828 |
| Total | 326 | 95960 | 12828 | 16012 | 124800 | 16096723 | 449987 |

List of Institutions under DHS transferred to local bodies as on 31.3.1997

| No. of Institutions | Grama Panchayat Nos. | Block Panchayat Nos. | Corporation Nos. | Municipality Nos. | Total Nos. |
|-----------------------------|-------------------------|-------------------------|---------------------|----------------------|---------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. Dispensaries | 29 | - | 2 | 3 | 34 |
| 2. Primary Health Centres | 757 | 148 | 1 | 6 | 912 |
| 3. Community Health Centres | 2 | 54 | 1 | 6 | 63 |
| 4. Hospitals | 1 | 63 | 6 | 36 | 106 |
| 5. MCH Units | - | 4 | - | - | 4 |
| 6. MM Units | - | 2 | - | - | 2 |
| Total | 789 | 271 | 10 | 51 | 1121 |

List of Institutions transferred to Local Bodies - Ayurveda - as on 31.3.'97

| Sl.No. | Name of District | Grama Panchayat Dispensaries (Nos) | Hospitals (Nos) | Block Panchayat Dispensaries (Nos) | Hospitals (Nos) | Corporation Dispensaries (Nos) | Hospitals (Nos) | Municipality Dispensaries (Nos) | Hospitals (Nos) | Total Dispensaries (Nos) | Hospitals (Nos) |
|--------|--------------------|------------------------------------------|--------------------|------------------------------------------|--------------------|--------------------------------------|--------------------|---------------------------------------|--------------------|--------------------------------|--------------------|
| 1. | Thiruvananthapuram | 53 | 5 | - | - | 3 | - | 2 | 1 | 58 | 6 |
| 2. | Kollam | 39 | 7 | - | - | - | - | 1 | 1 | 40 | 8 |
| 3. | Pathanamthitta | 34 | 2 | - | - | - | - | 1 | 1 | 35 | 3 |
| 4. | Alappuzha | 42 | - | - | - | - | - | - | - | 42 | - |
| 5. | Kottayam | 35 | 4 | - | - | - | - | 1 | 3 | 36 | 7 |
| 6. | Idukki | 27 | 2 | - | - | - | - | 1 | - | 28 | 2 |
| 7. | Emakulam | 49 | 7 | - | - | 2 | 1 | - | 4 | 51 | 12 |
| 8. | Thrissur | 69 | 10 | - | - | - | - | 1 | 4 | 70 | 14 |
| 9. | Palakkad | 55 | 3 | - | - | - | - | 1 | 1 | 56 | 4 |
| 10. | Malappuram | 54 | 5 | - | - | - | - | 3 | 2 | 57 | 7 |
| 11. | Kozhikode | 42 | 4 | - | - | - | - | - | 1 | 42 | 5 |
| 12. | Wayanad | 20 | - | - | 1 | - | - | - | - | 20 | 1 |
| 13. | Kannur | 48 | 2 | - | - | - | - | - | 3 | 48 | 5 |
| 14. | Kasaragode | 30 | 2 | - | - | - | - | - | 1 | 30 | 3 |
| Total | | 597 | 53 | - | 1 | 5 | 1 | 11 | 22 | 813 | 77 |

Appendix - 9.70
List of Institutions transferred to Local Bodies as on 31.3.'97 - Homoeopathy

| Sl.No. | Name of District | Grama Panchayat | | Block Panchayat | | Corporation | | Municipality | | Total | |
|--------|--------------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|
| | | Dispensaries (Nos) | Hospitals (Nos) | Dispensaries (Nos) | Hospitals (Nos) | Dispensaries (Nos) | Hospitals (Nos) | Dispensaries (Nos) | Hospitals (Nos) | Dispensaries (Nos) | Hospitals (Nos) |
| 1. | Thiruvananthapuram | 33 | 1 | 4 | - | 3 | - | - | 2 | 40 | 3 |
| 2. | Kollam | 22 | 1 | 3 | - | - | - | 4 | 1 | 29 | 2 |
| 3. | Pathanamthitta | 19 | - | 1 | - | - | - | - | - | 20 | - |
| 4. | Alappuzha | 24 | - | 6 | - | - | - | 1 | 2 | 31 | 2 |
| 5. | Kottayam | 30 | - | 3 | - | - | - | 1 | 1 | 34 | 1 |
| 6. | Idukki | 22 | - | 4 | 1 | - | - | - | - | 26 | 1 |
| 7. | Ernakulam | 32 | - | 5 | - | 4 | - | 1 | 2 | 42 | 2 |
| 8. | Thrissur | 28 | - | 2 | - | - | - | - | - | 30 | - |
| 9. | Palakkad | 23 | - | 4 | - | - | - | 1 | - | 28 | - |
| 10. | Malappuram | 29 | - | 3 | - | - | - | 1 | 1 | 33 | 1 |
| 11. | Kozhikode | 28 | - | 5 | 1 | 1 | - | - | 1 | 34 | 2 |
| 12. | Wayanad | 14 | - | - | - | - | - | - | - | 14 | - |
| 13. | Kannur | 22 | - | 2 | - | - | - | 3 | - | 27 | - |
| 14. | Kasaragode | 16 | - | - | 2 | - | - | 1 | - | 17 | 2 |
| | Total | 342 | 2 | 42 | 4 | 8 | - | 13 | 10 | 405 | 16 |

Appendix : 9.71

Category-wise details of Scheme Commissioned

| Sl.No. | Category | 92-93 | 93-94 | 94-95 | 95-96 | 96-97 |
|--------|------------------|-------|-------|-------|-------|-------|
| 1 | ARP | 14 | 6 | 14 | 14 | 8 |
| 2 | SCP | 73 | 104 | 170 | 230 | 216 |
| 3 | TSP | 9 | 15 | 19 | 34 | 24 |
| 4 | Others | 80 | 34 | 32 | 121 | 111 |
| 5 | Urban WSS | 2 | - | 1 | 7 | 1 |
| 6 | Drainage Schemes | - | - | - | 1 | - |
| 7 | ARP/LIC | - | - | - | - | 3 |
| 8 | LIC | - | - | - | - | 5 |
| Total | | 178 | 159 | 236 | 407 | 368 |

Appendix: 9.72

District-wise details of Problem Villages covered and population benefited as on 30.11.1997

| Sl.No. | District | Partially covered | Population benefited |
|--------|--------------------|-------------------|----------------------|
| 1 | Thiruvananthapuram | 91 | 1212983 |
| 2 | Kollam | 91 | 844961 |
| 3 | Pathanamthitta | 62 | 517856 |
| 4 | Alappuzha | 71 | 735954 |
| 5 | Kottayam | 89 | 671404 |
| 6 | Idukki | 62 | 334987 |
| 7 | Ernakulam | 88 | 1065076 |
| 8 | Thrissur | 200 | 1199265 |
| 9 | Palakkad | 155 | 963080 |
| 10 | Malappuram | 121 | 1087050 |
| 11 | Kozhikkode | 87 | 377964 |
| 12 | Wayanad | 48 | 323256 |
| 13 | Kannur | 78 | 426535 |
| 14 | Kasaragode | 116 | 562267 |
| Total | | 1359 | 10322638 |

Appendix - 9.73

Status of Habitations as on 1/97

| No. | District | NN | NC | PCI | PC2-PC4 | FC | Total |
|---------|--------------------|-------------------------------------------------------|------|------|---------|------|-------|
| 1 | Kasaragode | - | 4 | 76 | 259 | 79 | 418 |
| 2 | Kannur | - | 4 | 145 | 283 | 67 | 499 |
| 3 | Wayanad | 1 | 6 | 41 | 188 | 54 | 290 |
| 4 | Kozhikkode | 1 | 34 | 92 | 533 | 40 | 700 |
| 5 | Malappuram | 1 | 115 | 299 | 487 | 134 | 1036 |
| 6 | Palakkad | - | 37 | 142 | 625 | 134 | 938 |
| 7 | Thrissur | 1 | 57 | 196 | 531 | 199 | 984 |
| 8 | Ernakulam | 4 | 65 | 100 | 463 | 103 | 735 |
| 9 | Idukki | - | 219 | 78 | 178 | 74 | 549 |
| 10 | Kottayam | 1 | 112 | 118 | 391 | 126 | 748 |
| 11 | Alappuzha | 3 | 160 | 61 | 327 | 117 | 668 |
| 12 | Pathanamthitta | 1 | 77 | 137 | 273 | 49 | 537 |
| 13 | Kollam | - | 133 | 91 | 488 | 121 | 833 |
| 14 | Thiruvananthapuram | - | 125 | 30 | 509 | 177 | 841 |
| Total | | 13 | 1148 | 1606 | 5535 | 1474 | 9776 |
| NN | - | Not Accessible Not Covered (Forest Area) | | | | | |
| NC | - | Not Covered | | | | | |
| PCI | - | Partially Covered with WS Level <= 10 Iped | | | | | |
| PC2-PC4 | - | Partially Covered with WS Level > 10 Iped & < 40 Iped | | | | | |
| FC | - | Fully Covered | | | | | |

Appendix - 9.74

District wise Population covered by Rural Water Supply Schemes

| Sl. No | District | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------|--------------------|---------|---------|---------|---------|----------|----------|
| 1 | Thiruvananthapuram | 879000 | 964000 | 988288 | 1165278 | 1222386 | 1225081 |
| 2 | Kollam | 807000 | 843000 | 849650 | 878900 | 1014518 | 1045668 |
| 3 | Pathanamthitta | 295000 | 325000 | 328500 | 418564 | 454839 | 466131 |
| 4 | Alappuzha | 803000 | 853000 | 881993 | 917105 | 945334 | 978998 |
| 5 | Kottayam | 674000 | 705000 | 709244 | 743999 | 790170 | 796419 |
| 6 | Idukki | 321000 | 331000 | 335700 | 379600 | 430673 | 461778 |
| 7 | Ernakulam | 717000 | 747000 | 933535 | 1036495 | 1090607 | 1145815 |
| 8 | Thrissur | 1109000 | 1147000 | 1163010 | 1171027 | 1317716 | 1377252 |
| 9 | Palakkad | 1098000 | 1151000 | 1163000 | 1204790 | 1218965 | 1238125 |
| 10 | Malappuram | 591000 | 627000 | 638645 | 646570 | 1067030 | 1096017 |
| 11 | Kozhicode | 379000 | 228000 | 254577 | 257287 | 332357 | 342432 |
| 12 | Wayanad | 162000 | 188000 | 200220 | 220730 | 253035 | 278177 |
| 13 | Kannur | 220000 | 236000 | 262491 | 315043 | 363897 | 366777 |
| 14 | Kasaragode | 281000 | 290000 | 304478 | 328458 | 367071 | 371396 |
| | Total | 8336000 | 8635000 | 9013331 | 9683846 | 10868598 | 11190066 |

Appendix - 9.75

District wise Population covered under Urban Water Supply Schemes

| Sl. No | District | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------|--------------------|---------|---------|---------|---------|---------|---------|
| 1 | Thiruvananthapuram | 721140 | 728200 | 728700 | 728700 | 733000 | 733000 |
| 2 | Kollam | 309000 | 312400 | 312850 | 333490 | 463490 | 463490 |
| 3 | Pathanamthitta | 84350 | 85200 | 85200 | 85200 | 85200 | 95700 |
| 4 | Alappuzha | 489000 | 494700 | 494700 | 494700 | 494700 | 494700 |
| 5 | Kottayam | 246000 | 248000 | 848250 | 363310 | 363310 | 363310 |
| 6 | Idukki | 10600 | 38900 | 38900 | 38900 | 38900 | 53900 |
| 7 | Ernakulam | 895600 | 904500 | 905100 | 905295 | 1060996 | 1071496 |
| 8 | Thrissur | 535400 | 540700 | 541300 | 542270 | 542270 | 542270 |
| 9 | Palakkad | 230600 | 232800 | 233100 | 233900 | 256750 | 256750 |
| 10 | Malappuram | 176000 | 177700 | 178050 | 187234 | 238334 | 256334 |
| 11 | Kozhicode | 554000 | 559400 | 559866 | 560116 | 596850 | 602850 |
| 12 | Wayanad | 11000 | 11500 | 11500 | 11500 | 11500 | 11500 |
| 13 | Kannur | 485100 | 489200 | 489550 | 504356 | 577503 | 577503 |
| 14 | Kasaragod | 223600 | 225800 | 225800 | 228850 | 228850 | 228850 |
| Total | | 4971390 | 5399100 | 5652866 | 5217821 | 5691653 | 5751653 |

Appendix - 9.76
Details of Water Supply and demand in Corporation/ Municipalities in Kerala

| Sl.No | Name of Corporation/ Municipality | Population 1991 census | Population 1997 projected | LPCD Supply 1997 | LPCD demand as per norms | Gap |
|-------|-----------------------------------|---------------------------|------------------------------|---------------------|-----------------------------|--------|
| 1. | Trivandrum Corporation | 524006 | 544006 | 140.00 | 200.00 | 60.00 |
| 2. | Neyyattinkara | 30419 | 32500 | 70.00 | 140.00 | 70.00 |
| 3. | Nedumangadu | 49875 | 54375 | 70.00 | 140.00 | 70.00 |
| 4. | Attingal | 32634 | 39134 | 70.00 | 150.00 | 80.00 |
| 5. | Varkala | 38987 | 44737 | 20.00 | 150.00 | 130.00 |
| 6. | Kollam | 139852 | 148942 | 135.00 | 150.00 | 15.00 |
| 7. | Pathanamthitta | 35882 | 41254 | 139.00 | 120.00 | - |
| 8. | Adoor | 26639 | 28770 | 96.00 | 140.00 | 44.00 |
| 9. | Paravoor | 37185 | 40159 | 20.00 | 105.00 | 85.00 |
| 10. | Punaloor | 46279 | 50166 | 100.00 | - | - |
| 11. | Thodupuzha | 40652 | 70000 | 70.00 | 120.00 | 50.00 |
| 12. | Moovattupuzha | 27595 | 30439 | 110.00 | 120.00 | 10.00 |
| 13. | Kothamangalam | 35535 | 39799 | 134.00 | 140.00 | 6.00 |
| 14. | Perumbavoor | 24667 | 27134 | 70.00 | 115.00 | 45.00 |
| 15. | Kochi Corporation | 564529 | 677434 | - | 200.00 | - |
| 16. | Thrippunithura | 51078 | 56500 | 50.00 | 140.00 | 90.00 |
| 17. | Kalamassery | 54000 | 60000 | 120.00 | 140.00 | 20.00 |
| 18. | Paravoor | 27904 | 29613 | 70.00 | 90.00 | - |
| 19. | Aluva | 24763 | 28237 | 200.00 | 150.00 | - |
| 20. | Angamaly | 34252 | 38431 | 125.00 | 125.00 | 60.00 |
| 21. | Kottayam | 64431 | 83760 | 120.00 | 180.00 | 105.00 |
| 22. | Vaikkom | 21788 | 24400 | 35.00 | 140.00 | 70.00 |
| 23. | Pala | 19263 | 21890 | 70.00 | 140.00 | 70.00 |
| 24. | Thiruvalla | 54780 | 60258 | 107.00 | 150.00 | 43.00 |
| 25. | Changanassery | 52445 | 57444 | 70.00 | 150.00 | 80.00 |
| 26. | Palakkad | 123289 | 135993 | 120.00 | 150.00 | 30.00 |
| 27. | Chittur | 32048 | 35298 | 140.00 | 140.00 | - |
| 28. | Thalassery | 103577 | 116627 | 70.00 | - | - |
| 29. | Kuthuparamba | 28908 | 32550 | 55.00 | - | - |
| 30. | Mattannur | 40450 | 45569 | 55.00 | 140.00 | 66.00 |
| 31. | Vadakara | 72434 | 81126 | 74.00 | 170.00 | 16.00 |
| 32. | Thrissur | 74604 | 84017 | 154.00 | 110.00 | 28.20 |
| 33. | Kunnamkulam | 19657 | 21996 | 81.80 | 110.00 | 43.70 |
| 34. | Guruvayoor | 20218 | 22622 | 88.30 | 110.00 | 43.70 |
| 35. | Chavakkad | 37789 | 42288 | 7.10 | 148.50 | 141.40 |
| 36. | Kannur | 85238 | 80000 | 30.00 | - | - |

Contd... Appendix - 9.77

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|--------------|---------------------------------------------------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 8. | Rental Housing Scheme | 4889 | -- | -- | 11 | 78 | 258 | 84 | -- | 16 | -- | -- | -- |
| 9. | Public Housing Scheme | 11645 | 613 | 544 | 488 | 278 | 276 | 878 | 822 | 188 | 2878 | 68 | 449 |
| 10. | Kudikidappukar Housing | 7094 | 212 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11. | Scheduled Caste/Scheduled Tribe Development Corporation | 24917 | 2215 | 1916 | 675 | 1283 | 1249 | 739 | 1060 | 1683 | 2805 | 2515 | 771 |
| 12. | Tribal Welfare Department | 4250 | 90 | 350 | 377 | 286 | 404 | 583 | 626 | 880 | 871 | 628 | 583 |
| 13. | Scheduled Case Development Department | 18389 | 159 | 1166 | 957 | 1131 | 818 | 985 | 1135 | 2030 | 1844 | 419 | 173 |
| 14. | Fishermen Housing | 33332 | 2290 | 3870 | 6143 | 869 | 2211 | 63 | 2423 | 1547 | 1023 | 2287 | 594 |
| 15. | Kerala State Co-operative Housing Federation | 25612 | 8387 | 8658 | 6716 | 3502 | 4577 | 5313 | 5563 | 8231 | 9386 | 2236 | 8360 |
| 16. | Rehabilitation Housing Scheme | -- | 86837 | 9840 | 22062 | 6497 | 29611 | 5239 | 5621 | 32 | -- | -- | -- |
| 17. | N.R.E.P | 3871 | 9544 | 7580 | 9451 | -- | -- | -- | -- | -- | -- | -- | -- |
| 18. | R.L.E.G.P | 6847 | 14388 | 11040 | 8554 | -- | -- | -- | -- | -- | -- | -- | -- |
| 19. | Jawahar Rozgar Yojana | -- | -- | -- | -- | 22932 | 14225 | 22182 | 16533 | 16999 | 16283 | 29368 | 29952 |
| 20. | Other Schemes Implemented by KSHB | -- | -- | -- | -- | -- | -- | 4755 | 6045 | 2256 | 11123 | 1967 | 5922 |
| 21. | Completed/Discontinued Schemes | 12308 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22. | ROMHS Housing Complex | -- | -- | -- | -- | -- | -- | -- | -- | 996 | 1486 | 903 | 205 |
| 23. | EWS (Maithri) Housing Scheme | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 27689 |
| Total | | 274622 | 138000 | 47201 | 59216 | 39450 | 56845 | 47172 | 43778 | 40648 | 56946 | 49915 | 78703 |

5263

@ Number of beneficiaries who received loan from Kerala State Housing Board for Constructing EWS houses

Appendix - 9.78

Houses Constructed in Kerala-District wise

| Sl.No | District | 1991-92 | 1992-93 | 1993-94 | 1994-95 | Total |
|-------|--------------------|---------|---------|---------|---------|--------|
| 1. | Thiruvananthapuram | 16105 | 14515 | 12383 | 13849 | 56852 |
| 2. | Kollam | 9055 | 9844 | 7776 | 7665 | 34340 |
| 3. | Pathanamthitta | 6262 | 4632 | 5715 | 4490 | 21099 |
| 4. | Alappuzha | 10469 | 12107 | 10557 | 8417 | 41550 |
| 5. | Kottayam | 9251 | 6585 | 9055 | 6312 | 31203 |
| 6. | Idukki | 3234 | 4381 | 3045 | 2748 | 13408 |
| 7. | Ernakulam | 17262 | 14884 | 17427 | 17071 | 66644 |
| 8. | Thrissur | 15028 | 10852 | 10552 | 13092 | 49524 |
| 9. | Palakkad | 8536 | 6374 | 6436 | 7524 | 28870 |
| 10. | Malappuram | 13967 | 10552 | 12994 | 12893 | 50406 |
| 11. | Kozhikode | 12390 | 10954 | 14002 | 14414 | 51760 |
| 12. | Wayanad | 3014 | 2473 | 2031 | 2484 | 10002 |
| 13. | Kannur | 8907 | 8942 | 8865 | 9771 | 36485 |
| 14. | Kasaragod | 6019 | 4439 | 5117 | 5323 | 20898 |
| | Total | 139499 | 121534 | 125955 | 126053 | 513041 |

Details on Housing Schemes Implemented by Kerala State Housing Board

| Sl.No. | Name of Scheme | No. of Houses Constructed | | |
|--------|-------------------------------------|---------------------------|----------------|---------------------------------------------------------------------------|
| | | Upto 31-3-1992 | During 1992-97 | During 1997-98 upto 30-11-97 |
| 1. | Public Housing Schemes | 6196 | 4405 | 133+ -(771 in progress) |
| 2. | Rental Housing Schemes | 1697 | 16 | 42+ (78 in progress) (54 unit in progress) |
| 3. | Working Journalists HS | 23 | Nil | 17 |
| 4. | Subsidy for House Construction | 55 | 253 | |
| 5. | NRI-Housing Scheme | 38 | 31 | |
| 6. | Housing complex(EWS) | Nil | 3590 | 44 (184 units in progress) (160 units in progress) 3 in progress |
| 7. | Office cum comm. Complex | 18 as on 3/97 | -- | -- |
| 8. | Revenue Towers | Nil | Nil | Nil |
| 9. | Slum Clearance Scheme | 528 | 88 | Nil |
| 10. | Kerala Village at Lathur | Nil | 168 | Nil |
| 11. | EWS/Maithri HS (Loan) | 1525 | 27689 | 18294 |
| 12. | LIG cash loan scheme | 5249 | 6402 | 984 |
| 13. | MIG cash loan scheme | 1619 | 4314 | 1249 |
| 14. | HIG cash loan scheme | 669 | 1295 | 417 |
| 15. | Repairs and Renewal | | | |
| 15. | -EWS | 1740 | 2 | -- |
| 16. | " LIG | 699 | 3 | 41 |
| 17. | " MIG | 453 | 6 | 42 |
| 18. | " HIG | Nil | 114 | 11 |
| 19. | Govt. employees & Teachers LS | | | |
| 19. | LIG | 676 | 5 | Nil |
| 20. | MIG | 335 | 1 | Nil |
| 21. | HIG | 88 | 1 | Nil |
| 22. | Housing Scheme for MLA/MPS | 48 | 29 | 5 |
| 23. | Housing Scheme for Flood Victims | Nil | 7127 | 2975 (as on 11/97) |
| 24. | HS for Central Govt. Employees | Nil | 6 | Nil |
| 25. | Housing Scheme for Beedi Workers | 349 | 85 | Nil |
| 28. | Kairali HS | 4126 | 17441 | Nil |
| 27. | Housing Scheme for Handloom Weavers | Nil | 68 | Nil |
| 28. | HS for Plantation Workers | Nil | 26 | Nil |
| 29. | Rehabilitation HS | 8156 | 164822 | Nil |
| 30. | Co-Operative HS | 55496 | -- | -- |
| 31. | SASH | 15375 | 2575 | Nil |
| | Total | 103138 | 240582 | 24254 |

Appendix - 9.80

Loan and Subsidy under major State supported Schemes

| Sl.No | Name of the Scheme | Unit Cost Rs. | Maximum amount admissible as Loan (Rs) | Interest rate % | Cash subsidy (Rs) | Interest Subsidy % |
|-------|-----------------------------------------------------------------------------|------------------|-------------------------------------------|--------------------|----------------------|-----------------------|
| 1. | EWS Maithri Housing Scheme | 30000 | 19000 | 13.5 | 9000 | 8.5 |
| 2. | EWS Cash Loan Scheme | 26400 | 17400 | 13.5 | 9000 | 8.5 |
| 3. | Fishermen housing | - | - | - | 35000 | - |
| 4. | Jawahar Rozgar Yojana | - | - | - | 35000 | - |
| 5. | Indira Awas Yojana | - | - | - | 35000 | - |
| 6. | Housing Schemes implemented by Scheduled Caste Development Department | - | - | - | 35000 | - |
| 7. | Housing Schemes implemented by Scheduled Tribe Development Department | - | - | - | 35000 | - |

Appendix 9.81
Growth of ITIs and ITCs in Kerala

| Year | No. of I.T.Is | Seat Strength | No. of I.T.Cs | Seat Strength |
|------|---------------|---------------|---------------|---------------|
| 1961 | 4 | NA | 4 | NA |
| 1966 | 9 | NA | 21 | -- |
| 1974 | 12 | NA | 41 | -- |
| 1980 | 15 | 8652 | 119 | -- |
| 1985 | 22 | 10132 | 198 | -- |
| 1990 | 28 | 10970 | 256 | -- |
| 1997 | 32 | 11946 | 354 | 42232 |

District wise No. of Industrial Training Institutions and seat strength in Kerala As on 31.12.1997

| Sl. | District | No. of Institution | | | | Seat Strength | | | | |
|-----|--------------------|--------------------|-----------------------------|---------------|-----------------------------|---------------|------------|---------------|-------|--|
| | | Govt I.T.I | | Private I.T.I | | Total | Govt I.T.I | Private I.T.I | Total | |
| | | Total | Of Which affiliated to NCVT | Total | Of Which affiliated to NCVT | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 1. | Thiruvananthapuram | 5 | 4 | 49 | 49 | 54 | 3040 | 3636 | 6676 | |
| 2. | Kollam | 3 | 2 | 41 | 41 | 44 | 1208 | 5272 | 6480 | |
| 3. | Pathanamthitta | 1 | 1 | 30 | 30 | 31 | 176 | 3206 | 3382 | |
| 4. | Alappuzha | 2 | 1 | 45 | 45 | 47 | 922 | 5446 | 6368 | |
| 5. | Idukki | 1 | | 7 | 7 | 8 | 224 | 756 | 980 | |
| 6. | Kottayam | 2 | 1 | 30 | 30 | 32 | 1092 | 4026 | 5118 | |
| 7. | Ernakulam | 2 | 1 | 52 | 52 | 54 | 880 | 10416 | 11296 | |
| 8. | Trichur | 3 | 2 | 28 | 28 | 31 | 1068 | 3260 | 4328 | |
| 9. | Malappuram | 2 | 1 | 11 | 11 | 13 | 316 | 996 | 1312 | |
| 10. | Palakkad | 3 | 1 | 13 | 13 | 16 | 832 | 986 | 1818 | |
| 11. | Kozhikkodu | 3 | 2 | 21 | 21 | 24 | 920 | 1880 | 2800 | |
| 12. | Wyanad | 1 | 1 | 4 | 4 | 5 | 144 | 324 | 468 | |
| 13. | Kannur | 2 | 1 | 19 | 19 | 21 | 944 | 1764 | 2708 | |
| 14. | Kasargod | 2 | 2 | 4 | 4 | 6 | 180 | 264 | 444 | |
| | Total | 32 | 20 | 354* | 354 | 386 | 11946 | 42232 | 54178 | |

S268

* The defunct ITCs in Private Sector, 41 ITCs under Scheduled caste Development Department and one ITC under S. T. Development department have been excluded as they are not affiliated to N.C.V.T

Trade wise seats strength in Government ITIs and Private ITCs as on 31-12-97

(One year Course)

| Sl. No. | Name of Trades | Industrial Training Institutes | | | | | | | | | | Industrial Training Centres | | | | | | | |
|---------|---------------------------------------|--------------------------------|----------------|-----------------|-----------------|---------------|----------------|-----------------|-----------------|-----|----|-----------------------------|---|---|---|---|---|---|----|
| | | Total Intake | of which Girls | Schedule Castes | Schedule Tribes | Total intakes | of which Girls | Schedule castes | Schedule Tribes | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Foreger & Heat Treater | 336 | -- | 34 | -- | 16 | -- | 16 | -- | 5 | 1 | | | | | | | | |
| 2. | Carpenter | 354 | -- | 40 | 1 | 752 | 1 | 752 | 56 | 56 | 10 | | | | | | | | |
| 3. | Mechanic Diesel | 160 | -- | 16 | 2 | -- | 2 | -- | -- | -- | -- | | | | | | | | |
| 4. | Moulder | 224 | -- | 23 | 2 | 32 | 2 | 32 | -- | -- | -- | | | | | | | | |
| 5. | Plumber | 368 | -- | 38 | 4 | 1552 | 4 | 1552 | 46 | 46 | 32 | | | | | | | | |
| 6. | Sheet Metal Works | 274 | 24 | 27 | 2 | 302 | 2 | 302 | 12 | 12 | -- | | | | | | | | |
| 7. | Welder | 696 | -- | 68 | 7 | 316 | 7 | 316 | 18 | 18 | 2 | | | | | | | | |
| 8. | Steno (Eng) | 432 | 312 | 45 | 5 | 1620 | 5 | 1620 | 81 | 81 | 7 | | | | | | | | |
| 9. | Data Preparation & Computer Software | 360 | 200 | 36 | 3 | 3420 | 3 | 3420 | 173 | 173 | 16 | | | | | | | | |
| 10. | Steno (Hindi) | 32 | 24 | 3 | -- | 32 | -- | 32 | 2 | 2 | -- | | | | | | | | |
| 11. | Secretarial Practice | 48 | 31 | 4 | -- | 240 | -- | 240 | 20 | 20 | 4 | | | | | | | | |
| 12. | Dress Making | 96 | 96 | 9 | -- | 48 | -- | 48 | 2 | 2 | 1 | | | | | | | | |
| 13. | D.T.P.O | 60 | 26 | 6 | -- | 32 | -- | 32 | 2 | 2 | 1 | | | | | | | | |
| 14. | Plastic Processing Operator Trade | 64 | -- | 5 | 1 | -- | 1 | -- | -- | -- | -- | | | | | | | | |
| 15. | Mechanic Tractor | 64 | -- | 5 | -- | -- | -- | -- | -- | -- | -- | | | | | | | | |
| 16. | Upholstry | 32 | -- | 4 | -- | 64 | -- | 64 | 4 | 4 | 2 | | | | | | | | |
| 17. | Photographer | - | -- | -- | -- | 16 | -- | 16 | 2 | 2 | -- | | | | | | | | |
| 18. | Hair & Skin Care | - | - | - | - | 48 | - | 48 | 4 | 4 | -- | | | | | | | | |
| 19. | Preservation of Fruits and Vegetables | - | - | - | - | 16 | - | 16 | 2 | 2 | -- | | | | | | | | |
| 20. | Hand Compositor | - | - | - | - | 32 | - | 32 | 2 | 2 | -- | | | | | | | | |
| 21. | Cutting and Tailoring | - | - | - | - | 208 | - | 208 | 12 | 12 | 6 | | | | | | | | |
| Total | | 3600 | 713 | 363 | 27 | 8746 | 27 | 8746 | 443 | 443 | 82 | | | | | | | | |

Trade wise seats strength in Government ITIs and Private ITCs as on 31-12-97

| Sl. No. | Name of Trades | Industrial Training Institutes | | | | | | | | | | Industrial Training Centres | | | |
|---------|---------------------------------------------|--------------------------------|----------------------|-----------------|-----------------|--------------|----------------------|-----------------|-----------------|--------------|----------------------|-----------------------------|-----------------|--|--|
| | | Total Intake | Total of which Girls | Schedule Castes | Schedule Tribes | Total intake | Total of which Girls | Schedule castes | Schedule Tribes | Total intake | Total of which Girls | Schedule castes | Schedule Tribes | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | |
| 1. | Draftsman Civil | 672 | 272 | 9 | 1 | 6010 | 2900 | 429 | 1 | | | | | | |
| 2. | D/Mechanic | 192 | 32 | 16 | 2 | 992 | 192 | 50 | 7 | | | | | | |
| 3. | Electrician | 854 | -- | 90 | 1 | 12662 | -- | 80 | 4 | | | | | | |
| 4. | Fitter | 1120 | -- | 114 | 2 | 4612 | -- | 812 | 2 | | | | | | |
| 5. | Mechanic (Motor Vehicle) | 832 | -- | 90 | 2 | 824 | -- | 191 | 1 | | | | | | |
| 6. | Machinist | 496 | -- | 50 | 4 | 244 | -- | 15 | 1 | | | | | | |
| 7. | Mechanic (Radio & TV) | 800 | 350 | 80 | 6 | 2536 | 336 | 90 | 6 | | | | | | |
| 8. | Wireman | 672 | -- | 70 | 2 | 712 | -- | 60 | -- | | | | | | |
| 9. | Turner | 548 | -- | 61 | 1 | 266 | -- | 12 | 2 | | | | | | |
| 10. | Electronics Mechanic | 992 | 380 | 90 | 3 | 3484 | 800 | 200 | 8 | | | | | | |
| 11. | Mechanic (Refrigeration & Air Conditioning) | 412 | -- | 51 | 2 | 952 | -- | 70 | 5 | | | | | | |
| 12. | Instrument/Mechanic | 202 | -- | 16 | 2 | -- | -- | -- | -- | | | | | | |
| 13. | Surveyor | 192 | 32 | 21 | 3 | 96 | 16 | 7 | 2 | | | | | | |
| 14. | Watch & Clock Mechanic | 96 | -- | 8 | 2 | 64 | 5 | 2 | -- | | | | | | |
| 15. | Painter General | 160 | -- | 16 | 1 | 32 | -- | 3 | 1 | | | | | | |
| 16. | Electro Plater | 32 | -- | 3 | -- | -- | -- | -- | -- | | | | | | |
| 17. | Mill wright Mechanic | 32 | -- | 2 | 1 | -- | -- | -- | -- | | | | | | |
| 18. | Mechanic in Agriculture Machinery | 32 | -- | 2 | 1 | -- | -- | -- | -- | | | | | | |
| Total | | 8336 | 1066 | 789 | 36 | 33486 | 4249 | 2021 | 40 | | | | | | |

Appendix 9.85

Number of Job Seekers in the Employment Exchanges in Various I.T.I. Trades as on 31-12-1995

| 1 Name of Trade | 2 No. of Applicants | | 3 Percentage |
|-----------------------|------------------------|------------|-----------------|
| | | | |
| Surveyor | 839 | 0.71 | |
| Draftsman Civil | 13435 | 11.31 | |
| D/Mechanic | 1141 | 0.96 | |
| Computer | 10951 | 9.22 | |
| Stenography | 10666 | 8.98 | |
| Moulding | 1277 | 1.07 | |
| Electroplating | 381 | 0.32 | |
| Carpenter | 2609 | 2.20 | |
| Blacksmith | 2009 | 1.69 | |
| Tool & Die Making | 67 | 0.06 | |
| Machinist | 1669 | 1.41 | |
| Turner | 3733 | 3.14 | |
| Instrument Mechanic | 461 | 0.39 | |
| Fitter | 13056 | 10.99 | |
| Motor Mechanic | 4166 | 3.51 | |
| Diesel Mechanic | 1311 | 1.10 | |
| Tractor Mechanic | 255 | 0.21 | |
| A.C. Mechanic | 3084 | 2.60 | |
| Electrician | 10912 | 9.19 | |
| Electronic Mechanic | 6409 | 5.40 | |
| Radio & T.V. Mechanic | 5440 | 4.59 | |
| Wireman | 4728 | 3.98 | |
| Plumber | 5038 | 4.24 | |
| Welder | 8993 | 5.89 | |
| Sheet Metal Worker | 2132 | 1.80 | |
| Book Binder | 1391 | 1.17 | |
| Painter | 384 | 0.32 | |
| Dress Making | 4217 | 3.55 | |
| Total | 118752 | 100 | |

Financial Achievement during 8th plan (1992-93 to 1996-97) including Central Share
(Rs. in lakhs)

| Sl.No. | Scheme/ Project | 1992-93 | | 1993-94 | | 1994-95 | | 1995-96 | | 1996-97 | |
|--------|-----------------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | Outlay | Expr. | Outlay | Expr. | Outlay | Expr. | Outlay | Expr. | Outlay | Expenditure |
| 1. | IRDP | 1660.00 | 1647.95 | 2056.00 | 1973.75 | 2036.00 | 2401.97 | 2036.14 | 2268.90 | 2036.14 | 2700.13 |
| 2. | TRYSEM | 100.00 | 222.85 | 209.24 | 247.29 | 167.28 | 281.32 | 207.48 | 237.66 | 130.33 | 158.65 |
| 3. | DWCRA | 39.52 | 41.10 | 112.96 | 77.92 | 130.70 | 105.78 | 191.80 | 147.95 | 303.64 | 202.07 |
| 4. | JRY | 6238.32 | 6843.94 | 7659.24 | 7788.38 | 6620.16 | 7234.60 | 7674.44 | 8888.24 | 8013.71 | 7271.28 |
| 5. | EAS | --- | --- | 725.00 | 171.20 | 2253.80 | 1901.38 | 2547.56 | 2249.90 | 3974.59 | 2063.44 |
| 6. | Community Development - SCP | 30.00 | 24.19 | 30.00 | 29.97 | 35.00 | 34.99 | 35.00 | 32.98 | 75.00 | 75.00 |
| 7. | Community Development - TSP | 5.00 | 4.94 | 5.00 | 4.98 | 5.00 | 5.00 | 5.00 | 4.92 | 5.00 | 5.00 |
| | Total | 8072.84 | 8784.97 | 10797.48 | 10293.49 | 11247.94 | 11965.04 | 12697.42 | 13830.55 | 14538.41 | 12475.57 |
| | Non Plan Schemes | 2063.41 | 1822.92 | 2129.47 | 2032.24 | 2236.17 | 2236.17 | 2696.49 | 2696.49 | 3317.27 | 3317.27 |

Appendix - 10.2

Physical Target and Achievement during 1992-93 to 1997-98

| Sl.No. | Name of scheme | 1992-93 | | 1993-94 | | 1994-95 | | 1995-96 | | 1996-97 | |
|--------|-----------------------------------|------------|--------|---------|--------|---------|--------|---------|--------|---------|------------|
| | | Target | Achmt. | Target | Achmt. | Target | Achmt. | Target | Achmt. | Target | Activities |
| I. | 1. IRDP - Total families assisted | Nos. 46950 | 50517 | 49838 | 536998 | 40767 | 46294 | 36704 | 43357 | 36704 | 48690 |
| | 2. SC/ST assisted | Nos. 23475 | 25663 | 24919 | 26908 | 20383 | 20936 | 18352 | 18706 | 18352 | 19293 |
| | 3. Women assisted | Nos. 18780 | 23770 | 19935 | 25579 | 16306 | 22518 | 14682 | 20114 | 14681 | 23501 |
| II. | TRYSEM | | | | | | | | | | |
| | 1. Youth Trained | Nos. 7570 | 7919 | 6682 | 5549 | 6080 | 5854 | 6080 | 4800 | 6080 | 5036 |
| III. | DWCRA | | | | | | | | | | |
| | 1. Groups Organised | Nos. 260 | 241 | 800 | 551 | 797 | 753 | 720 | 797 | 1080 | 962 |
| IV. | JRY | | | | | | | | | | |
| | 1. Employment Generated | LMD. 138 | 134 | 113 | 120 | 97 | 101 | 108 | 127 | 59 | 105 |
| V. | EAS - Employment Generated | LMD. 10 | 2 | 10 | 2 | 30 | 27 | 32 | 32 | 32 | 28 |
| VI. | CD - SCP | | | | | | | | | | |
| | 1. Furniture supplied | Nos. --- | --- | --- | 75 | --- | 190 | --- | 596 | --- | 878 |
| | 2. Latrine constructed | Nos. --- | --- | --- | 1601 | --- | 2079 | --- | 1333 | --- | 1760 |
| VII. | CD - TSP | | | | | | | | | | |
| | 1. Furniture supplied | Nos. --- | --- | --- | 40 | --- | 77 | --- | 44 | --- | 25 |
| | 2. Latrine constructed | Nos. --- | --- | --- | 183 | --- | 370 | --- | 287 | --- | 130 |

Appendix - 10.3
Physical and Financial Achievements Under IRDP Families Assisted and Subsidy Disbursed from 1990-91 to 1997-98

| Year | No. of families asistd | Bank Loan (Rs. in lakhs) | Amount of subsidy given (Rs. in lakhs) | | Total (Rs. in lakhs) |
|-----------------------|---------------------------|-----------------------------|-------------------------------------------|-----------------|-------------------------|
| | | | 3 | 4 | |
| 1 | 2 | 3 | 4 | 5 | 5 |
| 1990-91 | 60877 | 2560.06 | 1702.09 | 4262.15 | 4262.15 |
| 1991-92 | 57562 | 2470.04 | 1613.53 | 4083.57 | 4083.57 |
| 1992-93 | 50517 | 2250.78 | 1485.29 | 3736.07 | 3736.07 |
| 1993-94 | 53698 | 2645.93 | 1797.03 | 4442.96 | 4442.96 |
| 1994-95 | 46294 | 3987.02 | 2173.12 | 6160.14 | 6160.14 |
| 1995-96 | 43357 | 5239.08 | 2008.70 | 7247.78 | 7247.78 |
| 1996-97 | 48690 | 6530.87 | 2285.82 | 8816.69 | 8816.69 |
| 1997-98 (Oct. '97) | 19500 | 2823.11 | 911.85 | 3734.96 | 3734.96 |
| Total | 380495 | 28506.89 | 13977.43 | 42484.32 | 42484.32 |

Appendix - 10.4
Physical and Financial Achievements under Rural Development Programmes from 1992-93 to 1997-98

| Sl.No. | Programmes | Unit | Achievements | | | | | | 97-98 Ason 31-10 |
|--------|----------------------------------------------------------------|-----------|--------------|---------|---------|---------|---------|---------|---------------------|
| | | | 92-93 | 93-94 | 94-95 | 95-96 | 96-97 | 9 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| I. (a) | IRDP | | | | | | | | |
| 1. | Total Expenditure | Rs. lakhs | 1770.80 | 1973.75 | 2401.97 | 2268.90 | 2700.13 | 1079.00 | |
| 2. | Families assisted | Nos. | 50517 | 53698 | 46294 | 43357 | 48690 | 19500 | |
| 3. | S.C. families assisted | Nos. | 23810 | 24939 | 19443 | 17498 | 18068 | 6755 | |
| 4. | S.T. Families assisted | Nos. | 1853 | 1969 | 1493 | 1262 | 1225 | 437 | |
| 5. | Women assisted | Nos. | 23770 | 25579 | 22518 | 20114 | 23501 | 8696 | |
| 6. | Subsidy adjusted | Rs.lakhs | 1485.29 | 1797.03 | 2173.12 | 2008.70 | 2285.82 | 911.85 | |
| 7. | Per family investement | Nos. | 7395 | 8274 | 13307 | 16717 | 18108 | 19184 | |
| 8. | S.C. families | Nos. | 6643 | 7384 | 12361 | 15434 | 16658 | 18193 | |
| 9. | S.T.Families | Nos. | 6098 | 7047 | 11804 | 15796 | 17503 | 19945 | |
| | | | 716 | 6658 | 8247 | 6251 | 5288 | 664 | |
| (b) | SUPPLY OF TOOL KIT TO RURAL ARTISANS | | | | | | | | |
| (c) | TRYSEM | | | | | | | | |
| 1. | Total Youth trained | Nos. | 7919 | 5549 | 5854 | 4860 | 5036 | 1918 | |
| 2. | Of which No. of SCs. | Nos. | 2861 | 2239 | 2308 | 2064 | 2062 | 747 | |
| 3. | Of which No. of STs | Nos. | 182 | 145 | 168 | 153 | 205 | 86 | |
| 4. | Of which No. of Women | Nos. | 5382 | 3742 | 4070 | 3238 | 3399 | 1339 | |
| 5. | Trained persons who set up their self employment ventures | Nos | 1553 | 1212 | 1890 | 1437 | 1234 | 425 | |
| 6. | Of which No. of SCs | Nos. | 417 | 330 | 532 | 437 | 364 | 139 | |
| 7. | Of which No. of STs. | Nos. | 17 | 46 | 36 | 42 | 31 | 8 | |
| 8. | Of which No. of women | Nos. | 1094 | 943 | 1447 | 1091 | 1018 | 394 | |
| 9. | Trained persons who have taken up wage employment | Nos. | 3856 | 2891 | 3431 | 2828 | 3172 | 842 | |
| 10. | Of which No. of SCs | Nos. | 1487 | 1119 | 1492 | 1202 | 1307 | 337 | |
| 11. | Of which No. of STs | Nos. | 58 | 67 | 112 | 99 | 155 | 62 | |
| 12. | Of which No. of women | Nos. | 2283 | 1692 | 2205 | 1784 | 1950 | 548 | |
| 13. | Total No. of settled including self employed and wage employed | Nos. | 5409 | 4103 | 5321 | 4265 | 4406 | 1267 | |
| 14. | Out of number trained | Nos. | 68 | 74 | 91 | 88 | 87 | 66 | |

Contd... Appendix : 10.4

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------|------------------------------------------|-----------|---------|---------|---------|---------|---------|---------|
| | (d) DWCRA | | | | | | | |
| | 1. Women groups organised | Nos. | 319 | 551 | 753 | 797 | 962 | 911 |
| | 2. Women groups functioning | Nos. | 299 | 297 | 629 | 662 | 738 | 368 |
| II. | JRY | | | | | | | |
| | 1. Total expenditure | Rs. lakhs | 6843.94 | 7788.38 | 7234.60 | 8888.24 | 8351.28 | 1120.23 |
| | 2. Expenditure for SCs | Rs. lakhs | 2267.42 | 2841.59 | 3144.13 | 3979.57 | 3243.76 | 274.05 |
| | 3. Expenditure for STs | Rs. lakhs | 295.74 | 337.73 | 388.94 | 495.58 | 479.42 | 23.18 |
| | 4. Man days generated | L.M.D. | 134.57 | 120.43 | 101.01 | 127.75 | 105.87 | 12.38 |
| | 5. Man days generated for SCs | L.M.D. | 43.01 | 41.66 | 34.26 | 43.06 | 37.57 | 4.09 |
| | 6. Man days generated for STs | L.M.D. | 7.25 | 7.42 | 4.64 | 6.39 | 6.54 | 0.95 |
| | 7. Man days generated for women | L.M.D. | 40.10 | 32.25 | 28.03 | 78.30 | 37.02 | 4.45 |
| | 8. Food grains utilised | MT | 1220.16 | 354.17 | --- | --- | --- | --- |
| | 9. Houses completed | Nos. | 16533 | 16999 | 18549 | 29368 | 29952 | 2576 |
| | 10. New roads completed | K.M. | 1767.19 | 1587.14 | 989.47 | 848.23 | 802.34 | 212.91 |
| | 11. sanitary latrines completed | Nos. | 4516 | 4620 | 4313 | 4558 | 12453 | 3644 |
| | 12. Drinking water wells constructed | Nos. | 309 | 359 | 310 | 288 | 404 | 132 |
| | 13. Irrigation wells, tanks, canals | Nos. | 293 | 143 | 183 | 132 | 125 | 38 |
| | 14. Area planted under Social Forestry | Ha. | 31.78 | 257.61 | 10.40 | 252.47 | 21.10 | 1.12 |
| | 15. Seedlings distributed | In lakhs | 34.48 | 51.47 | 93.82 | 4.67 | 2.58 | 0.30 |
| | 16. Building constructed | Nos. | 2222 | 3059 | 1938 | 1734 | 3285 | 557 |
| III. | (School and other Buildings) KERAMS | | | | | | | |
| | 1. Volume of business handled | Rs. lakhs | 34.05 | 33.27 | 37.14 | 49.33 | 54.82 | 55.84 |

Appendix -10.5

Progress Under Tool kit Programme (1996-97)

| District | No. of Rural artisan | Physical Progress (No.) | | |
|--------------------|----------------------|-------------------------|--------------------------------|-------------------------|
| | | Target (92 Survey) | Artisans supplied with toolkit | Expenditure (Rs. lakhs) |
| 1 | 2 | 3 | 4 | 5 |
| Thiruvananthapuram | 17669 | 440 | 347 | 6.70 |
| Kollam | 9649 | 410 | 408 | 8.06 |
| Pathanamthitta | 3602 | 460 | 52 | 4.00 |
| Alappuzha | 5674 | 120 | 265 | 7.69 |
| Kottayam | 6195 | 210 | 152 | 3.11 |
| Idukki | 6159 | 370 | 573 | 17.95 |
| Ernakulam | 3626 | 1289 | 1951 | 21.97 |
| Thrissur | 13158 | 339 | 98 | 4.59 |
| Palakkad | 7412 | 179 | 231 | 5.52 |
| Malappuram | 7473 | 289 | 216 | 4.10 |
| Kozhikode | 5881 | 259 | 158 | 9.79 |
| Wayanad | 957 | 89 | 164 | 10.05 |
| Kannur | 3377 | 99 | 344 | 12.09 |
| Kasargod | 2901 | 178 | 329 | 13.85 |
| Total | 93733 | 4731 | 5288 | 127.47 |

Appendix - 10.6

Sale Value of IRDP Products through KERAMS

| Year | Sale Value (Rs. lakhs) |
|---------|------------------------|
| 1987-88 | 3.48 |
| 1988-89 | 6.55 |
| 1989-90 | 6.55 |
| 1990-91 | 9.48 |
| 1991-92 | 12.12 |
| 1992-93 | 34.05 |
| 1993-94 | 33.27 |
| 1994-95 | 37.14 |
| 1995-96 | 49.33 |
| 1996-97 | 54.82 |

Appendix - 10.7

District-wise Beneficiaries of Surplus land and extend of land distributed as on 30.11.97

| Sl. No. | District | Scheduled Castes | | Scheduled Tribes | | Others | | Total | |
|---------|--------------------|------------------|--------------|------------------|-------------|--------------|--------------|---------------|--------------|
| | | No. | Extent | No. | Extent | No. | Extent | No. | Extent |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Kasaragod | 4111 | 3276 | 798 | 671 | 7325 | 5841 | 12234 | 9788 |
| 2. | Kannur | 4265 | 2523 | 1896 | 1474 | 8606 | 5812 | 14787 | 9809 |
| 3. | Wayanad | 1358 | 481 | 2748 | 1538 | 2853 | 1325 | 6959 | 3344 |
| 4. | Kozhikode | 5023 | 1244 | 245 | 102 | 5991 | 1286 | 11259 | 2632 |
| 5. | Malappuram | 8496 | 3413 | 37 | 14 | 7910 | 4007 | 16443 | 7434 |
| 8. | Palakkad | 12730 | 5593 | 1224 | 949 | 13349 | 6287 | 27303 | 12829 |
| 7. | Thrissur | 7590 | 1411 | 67 | 50 | 12346 | 2223 | 20003 | 3684 |
| 8. | Ernakulam | 3912 | 737 | 40 | 5 | 2447 | 418 | 6399 | 1160 |
| 9. | Idukki | 2218 | 2042 | 360 | 315 | 2411 | 2138 | 4989 | 4495 |
| 10. | Kottayam | 2417 | 1246 | 76 | 60 | 2841 | 1232 | 5334 | 2537 |
| 11. | Alappuzha | 3968 | 2159 | 48 | 7 | 4322 | 2332 | 8338 | 4498 |
| 12. | Pathanamthitta | 330 | 86 | - | - | 394 | 68 | 724 | 154 |
| 13. | Kollam | 3434 | 777 | - | - | 3229 | 824 | 6663 | 1601 |
| 14. | Thiruvananthapuram | 3099 | 335 | - | - | 2390 | 275 | 5489 | 610 |
| | Total | 62951 | 25322 | 7539 | 5185 | 76414 | 34068 | 146904 | 64575 |

Financial Achievements under Western Ghats Development Programme during 1995-96, 1996-97 and 1997-98

| Sl.No. | Sector | 1995-96 | | 1996-97 | | 1997-98 | |
|--------|------------------------------------|---------------|---------------|---------------|----------------|---------------|---------------|
| | | Outlay | Expenditure | Out lay | Expenditure | Out lay | Expenditure |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 7 |
| I | Agriculture & Allied Activities | | | | | | |
| i) | Soil Conservation | 232.27 | 232.27 | 246.45 | 242.66 | 223.53 | 223.53 |
| ii) | Horticulture | 29.85 | 29.85 | 23.35 | 24.05 | 9.56 | 9.56 |
| iii) | Dairy Development | 68.97 | 68.97 | 57.96 | 58.11 | 62.74 | 62.74 |
| iv) | Forestry | 215.00 | 208.38 | 215.00 | 208.94 | 200.00 | 200.00 |
| v) | Afforestation | 9.87 | 9.87 | 9.82 | 5.94 | 2.82 | 2.82 |
| vi) | Animal Husbandry | 9.05 | 9.05 | 12.14 | 12.09 | 12.25 | 12.25 |
| vii) | Environment | 7.00 | 7.00 | 3.00 | 3.00 | 2.00 | 2.00 |
| Viii) | Agriculture Development | 62.70 | 62.70 | 62.12 | 62.82 | 64.25 | 64.25 |
| | Sub Total | 634.71 | 628.09 | 624.94 | 617.61 | 577.15 | 577.15 |
| II | Minor Irrigation | 183.24 | 183.24 | 221.97 | 218.50 | 250.79 | 250.79 |
| III | Village & Small Industries | 16.53 | 16.53 | 21.65 | 20.95 | 25.44 | 25.44 |
| IV | Infrastructure Development | | | | | | |
| i) | Foot Bridges | 57.52 | 53.20 | 52.70 | 55.50 | 52.00 | 52.00 |
| ii) | Water Supply | 40.38 | 40.38 | 10.50 | 12.50 | 12.00 | 12.00 |
| | SubTotal | 97.90 | 93.58 | 63.20 | 68.00 | 64.00 | 64.00 |
| V | Non Conventional sources of Energy | 6.81 | 6.81 | 2.24 | 2.24 | 6.62 | 6.62 |
| VI | Western Ghat Cell | | | | | | |
| i) | Staff & Establishment | 6.41 | 6.81 | 8.00 | 6.08 | 10.00 | 10.00 |
| ii) | Survey & Studies | 6.90 | 6.77 | 10.00 | 6.52 | 12.00 | 12.00 |
| | Sub Total | 13.31 | 13.58 | 18.00 | 12.60 | 22.00 | 22.00 |
| | Grand Total | 952.50 | 941.83 | 952.00 | 939.90* | 946.00 | 946.00 |

* Provisional

Physical Achievement under Western Ghats Development Programme during 1995-96, 1996-97 and 1997-98

| Sl. No. | Sector | Unit | Achievement | | | Target 1997-98 |
|---------|----------------------------------|------|-------------|---------|---------|----------------|
| | | | 1995-96 | 1996-97 | 1997-98 | |
| 1 | 2 | 3 | 4 | 5 | 6 | |
| I | Soil Conservation | Ha. | 1734 | 1945 | 2305 | |
| II | Dairy Development | Nos. | | | | |
| | i) Supply of Milch cows | Nos. | 684 | 731 | 822 | |
| | ii) Construction of Cattleheds | Nos. | 887 | 1059 | 705 | |
| | iii) Pasture/Fodder devt. | Ha. | 140 | 170 | 75 | |
| III | Poultry Development | | | | | |
| | i) Supply of Poultry units | Nos. | 3471 | 2017 | 3370 | |
| | ii) Supply of milch goats | Nos. | | 260 | 480 | |
| IV | Agriculture Development | Nos. | 27270 | | | |
| | (a) Seedlings | | | | | |
| | i) Coconut seedlings | Nos. | 27270 | 15900 | 35000 | |
| | ii) Arecanut Seedlings | Nos. | 55550 | 45600 | 44200 | |
| | iii) Banana suckers | Nos. | 39500 | 26485 | 15000 | |
| | iv) Pepper cuttings | Nos. | 35500 | 17170 | 39000 | |
| | v) Other seedlings | Nos. | 165000 | 164000 | 126000 | |
| | (b) Supply of sprayers | Nos. | 154 | 254 | 233 | |
| V | Minor Irrigation | | | | | |
| | i) Check dams/ Cross bars/ Weirs | Nos. | 120 | 133 | 36 | |
| | ii) Wells/ Ponds/ Tanks | Nos. | 256 | 470 | 277 | |
| | iii) Pumpsets | Nos. | 304 | 315 | 310 | |
| VI | Infrastructure development | | | | | |
| | i) Foot Bridges | Nos. | 48 | 76 | 52 | |

Appendix -10.10

Social Security and Welfare Schemes Implemented by the Social Welfare Department

| Sl. No. | Name of Scheme | Nature of Care | Year of Starting | No. of persons Served/benefitted |
|----------|-----------------------------------------------|------------------------------------------------------------------------------|------------------|----------------------------------|
| 1 | 2 | 3 | 4 | 5 |
| 1 | WELFARE INSTITUTIONS RUN BY GOVERNMENT | | | |
| a) | Mahila Mandir | Welfare of the Destitute Women or Girls | | |
| | 1 Thiruvananthapuram | | 1961 | |
| | 2 Kollam | | 1961 | |
| | 3 Kottayam | | 1961 | |
| | 4 Ernakulam | | 1961 | 25 beneficiaries in each home |
| | 5 Thrissur | | 1961 | |
| | 6 Alapuzha | | 1961 | |
| | 7 Palakkad | | 1961 | |
| | 8 Malappuram (Manjeri) | | 1975 | |
| | 9 Kozhikode | | 1975 | |
| | 10 Kannur (Thalasseri) | | 1975 | |
| b) | Government Balasadan | Welfare of Children, Orphans etc | | |
| | 1 Kozhikode | | 1960 | 100 beneficiaries in each home |
| | 2 Alappuzha | | 1966 | |
| c) | Rescue Homes | Detention of the Women/Girls under provision of ITP in women & Girls Act | | |
| | 1 Thavannur | | 1967 | 100 beneficiaries in each home |
| | 2 Alappuzha | | 1967 | |
| | 3 Ernakulam | | 1967 | |
| d) | After care Hostel (for Women) | Detention of the Women/Girls under the provision of ITP in Women & Girls Act | | 50 beneficiaries |
| | 1 Thiruvananthapuram | | 1961 | |
| e) | Care Home Thiruvananthapuram | Welfare & Rehabilitation of the old age and ex-convicts | 1957 | 100 beneficiaries |
| f) | Custodial Care Home Manjeri | Welfare & Protection of the Mentally retarded children | 1974 | 15 beneficiaries |
| g) | Home for Mentally Deficient children | Give care and special training to Mentally Deficient children | | |
| | 1 Thiruvananthapuram | | 1962 | 50 beneficiaries in each home |
| | 2 Kozhikode | | 1976 | |

| 1 | 2 | 3 | 4 | 5 |
|----------|--------------------------------------------------|-----------------------------------------------------------------------------|---------|--------------------------------|
| h) | Care Home for Disabled children | Giving protection to the disabled children up to the age of 16 | | |
| | 1 Kollam | | 1960 | 25 beneficiaries in each home |
| | 2 Alappuzha | | 1981 | |
| | 3 Thalasseri | | 1981 | |
| i) | Home for the physically Handicapped | For the welfare of the physically handicapped men, women, old and infirm | | |
| | 1 Thiruvananthapuram | | 1976 | |
| | 2 Alappuzha | | 1961 | |
| | 3 Ernakulam | | 1979 | |
| | 4 Palakkad | | 1961 | 25 beneficiaries in each home |
| | 5 Kozhikode | | 1979 | |
| | 6 Wayanad | | 1990-91 | |
| | 7 Idukki | | 1990-91 | |
| j) | Children's Home Noornadu | For the Welfare of the children who are sons & daughters of Leper patients | 1962 | 50 beneficiaries |
| k) | Home for the cured mental patients (Asha Bhavan) | for the accomodation of the cured mental patients | | |
| | 1 Thiruvananthapuram | | 1990-91 | 50 beneficiaries in each home |
| | 2 Thrissur | | 1990-91 | |
| | 3 Kozhikode | | 1990-91 | |
| l) | Rehabilitation Home for the Handicapped | -- | -- | |
| m) | Old Age Homes | For providing Physical, Social Psychological & economic support to the aged | | |
| | 1 Kollam | | | |
| | 2 Kottayam | | | |
| | 3 Kannur | | 1995-96 | 100 beneficiaries in each home |
| | 4 Kasargod | | | |
| | 5 pathanamthitta | | | |
| | 6 Ernakulam | | | |
| | 7 Thrissur | | | |
| | 8 Malappuram | | | |
| | 9 Kozhikode | | | |
| 2 | INSTITUTIONS RUN BY VOLUNTRY ORGANISATION | | | |
| a) | Orphanages (plan) | Welfare of orphan, aged infirm, begger etc | -- | 44728 |

Contd... Appendix -10.10

| | 3 | 4 | 5 |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------|--------------------------------|
| D) Fondling Home | | -- | 440 |
| c) Home for the Aged infirm | | -- | 4721 |
| d) Begger Homes | | -- | 365 |
| 3 OTHER SCHEMES NOT COVERED UNDER THE ABOVE CATEGORY | | | |
| a) After Care Home | For the reformation and rehabilitation of girls & boys | | |
| 1 Kozhikode | | 1961 | 100 beneficiaries in each home |
| 2 Thalasseri | | 1976 | |
| 3 Adolescent Girls. Kollam | | 1967 | |
| 4 Adolescent Boys. Kottayam | | 1967 | |
| 4 CORRECTIONAL INSTITUTIONS | | | |
| Observation Home | For providing care, protection of the under trial Juveniles | | |
| 1 Thalasseri | | 1987 | 25 beneficiaries |
| 2 Thiruvananthapuram | | | 50 beneficiaries |
| 3 Kollam | | | 25 beneficiaries |
| 4 Alappuzha | | | 25 beneficiaries |
| 5 Ernakulam | | | 25 beneficiaries |
| 6 Kottayam | | | 25 beneficiaries |
| 7 Thrissur | | | 50 beneficiaries |
| 8 Palakkad | | | 25 beneficiaries |
| 9 Kozhikode (2) (for Boys & Girls) | | | 50 beneficiaries |
| 10 Manjeri | | | 25 beneficiaries |
| Special Home for Boys Thiruvananthapuram | For their care, Protection, treatment, training, rehabilitation of the delinquent & neglected children | 1987 | 100 beneficiaries |
| Juvenile Home | For their care, Protection, treatment, training, rehabilitation of the delinquent & neglected children | 1987 | |
| 1 Kollam (for Boys) | | | 100 beneficiaries |
| 2 Kottayam (for Boys) | | | 150 beneficiaries |
| 3 Thrissur (for Boys) | | | 200 beneficiaries |
| 4 Kozhikode (for Boys) | | | 200 beneficiaries |
| 5 Kozhikode (for Girls) | | | 100 beneficiaries |
| (Juvenile Justice Institutions are transferred from Jail Department in the year 1987) | | | |

Appendix 10.11

Major Social Security and Pension Schemes in Kerala

| Sl. No. | Name of Scheme | Qualifying Conditions | Year of Starting | Present rate of Assistance | Amount Spent (Rs.Lakshs) 1996-97 | No. of persons |
|---------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------|----------------------------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Agricultural workers Pension Scheme | Eligible age is above 60 years. Annual family income should not exceed Rs. 15,000/- | 1.4.1980 | Rs.100/- p.m | 3457.28 | 312944 |
| 2 | Kerala Destitute Pension Scheme | Above 65 years age. For widowed destitute no age limit. Monthly income not to exceed Rs. 300/- | 1960 | Rs. 110/- p.m | 59.00 | 142500 |
| 3 | Special pension scheme for the physically handicapped, disabled and mentally retarded person | Disabled persons who have 40% disability Medical certificate necessary. Beneficiaries monthly income Rs.75 or family income not to exceed Rs.5000/annum | 1.4.1982 | Rs. 110/- p.m | 47.00 | 94800 |
| 4 | kerala Freedom fighters Pension Scheme | Any person who on account of participation in the National Movement | 1.4.1971 | Rs. 1500/- p.m | 1134.27 | 10650 |
| 5 | Pension to Sportsmen | The income limit for pension with effect from 31.4.1994 is Rs. 1100 per annum. Participation in sports at inter district/state level | 1978 | Below 60 Yrs. Rs.200/- p.m, 60 to 70 Yrs. Rs.300/- 70 Yrs and above Rs.400/ p.m | 7.47 | 174 |
| 6 | Financial assistance to Leprosy and Cancer patients | Leprosy and cancer patients are covered and certificate from hospitals are to be produced. Income of the patient should not exceed Rs. 200/- p.m | 11/76 | Rs. 200/- p.m | 58.37 | 4235 |
| 7 | Welfare fund for Journalists/dependents in distress | Living journalists who are unemployed due to ill health & overage | 1976 | Rs. 500/- p.m | 9.66 | 230 |
| 8 | Welfare fund for cine artists. | 1, Financial assistance is given to cine Artises in distres. The annual family income should not exceed Rs. 12,000 2. working journalists person scheme | 1981 1993 | Rs. 400/- p.m Rs. 1000/-p.m | 6.61 5.04 | 192 61 |
| 9 | Kerala Cashew workers Relief and welfare Schemes | cashew workers above the age of 60. super-X annuention at 58/60 yrs | 1989 | 125/- to workers 200/-to staff | 190.45 | 12332 |
| 10 | Kerale Coir workers welfare fund scheme | Coir workers ebove the age of 60 | 1989 | Rs. 100/- p.m | 342.01 | 28501 |
| 11 | Kerala Construction workers welfare scheme. | 1. Construction workers having one year service and attained 60 years of age 2. Invalid pension | 1990 1993 | Rs. 150/- p.m Rs. 150/- p.m | 144.75 0.64 | 8418 39 |

| | | | | | | |
|----|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|
| 12 | Kerale Khadi workers welfare scheme | Khedhi workers having ten yrs service and 60 yrs of age | 1990 | Rs. 180/- p.m | 0.64 | 50 |
| 13 | Kerala Handloom workers welfare scheme. | Handloom worker above the age of 60 with at least 3 years service | 1989 | Rs. 100/-p.m | 30.44 | 2975 |
| 14 | Kerale Abkari workers welfare fund scheme | A worker shall be entitled to become a member under the Scheme from the date on 1.1.90 on which he has completed 3 months continuous service. | 1.1.1990 | Rs. 200/- p.m Rs. 10,000 in the case of death of members Rs. 5000 for permanent disability incapable of continuing work | 2.58 | 120 |
| 15 | Kerala Toddy workers welfare scheme. | 1. workers who have not less than 10 yrs. members hips retired before/after the commencement of scheme/ super annuation Rs.10/-for each additional completed years of membership from the date of superannuation | 1997 | Rs. 100/- p.m | 533.00 | 44 417 |
| | | 2. Assistance to disabled workers | 1988 | Rs. 150 * | 5.06 | 293 |
| 16 | Kerala advocate Clerks Welfare Scheme | All Advocate clerks registered in the District court. | 1985 | After 5 years Rs. 1650/- and on completing 30 years Rs. 10,000/- | 0.61 | 2922 |
| 17 | Kerale Head Load workers welfare scheme | 1. All the workers in rolls of the committee are insured with LIC. under group Insurance Scheme | 1987 | Accident benefit Rs. 20,000.Rs. 10,000 for normal death and Rs. 2000 for accidental death. | 4.70 | 41 |
| | | 2. Invalid pension | 1990 | Rs. 150/-p.m | 0.08 | 5 |
| | | 3. Family welfare scheme | 1987 | Retirement benefit | 2.48 | 351 |
| | | 4. Terminal benefits | 1984 | upto Rs.7500/-and grant up to Rs. 10,000/- | 42.14 | 603 |
| 18 | Kerala Motor workers welfare fund | All members | 1986 | Retirement benifit PF etc. A member will get about Rs. 12000, per 5 yrs of contribution and Rs. 60,000 if continued as member for 15 yrs. | 1331.00 | 39758 |
| 19 | Kerale Fishermen's welfare scheme | Benefited fishermen who has completed 60 years of age | 1987 | Rs. 85/- p.m | 279.32 | 26967 |
| 20 | Financial assistance to widows for the marriage of their daughter. | Yeerty income of the family should not exceed Rs.10,000 end income of the individual is below Rs. 6000/- | 1978 | Rs. 2000/- | 153.95 | 8000 |

| | | | | | | |
|----|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| 21 | Tree climbers Welfare Scheme | financial assistance is given to workers in the event of total accidents and permanent total disability following the accidents. | 1980 | Re. 10,000 | 28.50 | 285 |
| 22 | Students Accident Insurance scheme. | All students | 1989 | Rs. 10,000 in the case of total accidents which cause total disability. In the case of minor injury assistance is subject to the maximum of Rs. 500 in a year . | 57.78 | 4629 |
| 23 | Unemployment assistance | Financial assistance is given to those who wait for employment in the live register of employment exchange for more than 3 years. | 1982 | Rs. 90/- p.m | 22.70 | 264382 |
| 24 | self employment scheme | Unemployed persons | 1982 | Rs. 600/- as seed money and Rs. 5000/- as bank loan | 806.00 | 134 343 |
| 25 | National old age pension scheme | Above 65 years of age with family income below Rs. 5000 in the case of rural areas and Rs. 5500 in case of urban areas. | 1995 | Rs. 110/- | 1969.59 | 608 90 |

Appendix - 10.12

I.C.D.S. Kerala

| Name of District | Year of Sanction | Name of Project | Sector | No. of Anganwady Sanctioned | Functioning |
|-----------------------|------------------|--------------------------|---------|--------------------------------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. Thiruvananthapuram | 77-78 | Thiruvananthapuram (U) | State | 101 | 101 |
| 2. " | 81-82 | Chirayinkeezhu | Central | 127 | 117 |
| 3. " | 82-83 | Thiruvananthapuram(R) | Central | 122 | 115 |
| 4. " | 82-83 | Perumkadavila | State | 122 | 122 |
| 5. " | 82-83 | Athiyannoor | State | 126 | 125 |
| 6. " | 82-83 | Nemon | State | 115 | 115 |
| 7. " | 86-87 | Vamanepuram | Central | 219 | 208 |
| 8. " | 93-94 | Kilimenoor | Central | 164 | 35 |
| 9. " | 93-94 | Varkala | Central | 130 | 22 |
| 10. " | 94-95 | Kazhakootam | Central | 230 | -- |
| 11. " | 96-97 | Thiruvananthapuram(slum) | Central | 410 | -- |
| 12. Kollam | 78-79 | Chavara | Central | 152 | 151 |
| 13. " | 80-81 | Oachira | State | 73 | 73 |
| 14. " | 82-83 | Vettikkavala | C | 179 | 176 |
| 15. " | 82-83 | Anchalummoodu | S | 114 | 114 |
| 16. " | 82-83 | Sasthamcotta | S | 87 | 87 |
| 17. " | 83-84 | Ithikkara | C | 138 | 138 |
| 18. " | 85-86 | Chittumala | C | 123 | 123 |
| 19. " | 88-89 | Pathenapuram | C | 186 | 155 |
| 20. " | 93-94 | Anchal | C | 190 | 21 |
| 21. " | 93-94 | Kottarakkara | C | 144 | 28 |
| 22. " | 94-95 | Chadayamangalam | C | 203 | -- |
| 23. Pathanamthitta | 82-83 | Parakode | S | 152 | 152 |
| 24. " | 85-86 | Pulikeezhu | C | 122 | 116 |
| 25. " | 88-89 | Konni | C | 178 | 178 |
| 26. " | 89-90 | Kulanada | C | 141 | 85 |
| 27. " | 93-94 | Pandalam | C | 232 | 12 |
| 28. " | 93-94 | Ranni | C | 208 | 16 |
| 29. " | 94-95 | Elanthur | C | 105 | -- |

| | | | | | | |
|-----|-----------|-------|----------------|---|-----|-----|
| 30. | Alappuzha | 79-80 | Thycattussery | C | 111 | 102 |
| 31. | " | 80-81 | Pattanakkad | C | 197 | 178 |
| 32. | " | 81-82 | Ambalapuzha | C | 117 | 106 |
| 33. | " | 82-83 | Alappuzha (U) | C | 186 | 147 |
| 34. | " | 82-83 | Kanjikuzhi | S | 114 | 114 |
| 35. | " | 82-83 | Harippad | S | 117 | 117 |
| 36. | " | 82-83 | Champakulam | S | 116 | 116 |
| 37. | " | 83-84 | Muthukulam | C | 156 | 144 |
| 38. | " | 93-94 | Mavelikkara | C | 117 | 24 |
| 39. | " | 93-94 | Bheranikkevu | C | 150 | 38 |
| 40. | " | 94-95 | Chengannur | C | 171 | - |
| 41. | Kottayam | 79-80 | Vaikom | S | 108 | 109 |
| 42. | " | 82-83 | Pampady | C | 122 | 122 |
| 43. | " | 82-83 | Lalam | S | 100 | 100 |
| 44. | " | 85-86 | Madappally | C | 189 | 185 |
| 45. | " | 89-90 | Kanjirappally | C | 226 | 207 |
| 46. | Idukki | 79-80 | Elamdesom | S | 110 | 110 |
| 47. | " | 82-83 | Idukki | C | 123 | 123 |
| 48. | " | 83-84 | Devikulam | C | 112 | 107 |
| 49. | " | 86-87 | Arudai | C | 195 | 148 |
| 50. | " | 88-89 | Kattappana | C | 202 | 174 |
| 51. | " | 90-91 | Adimali | C | 158 | 155 |
| 52. | " | 91-92 | Nedumkandam | C | 161 | 147 |
| 53. | " | 93-94 | Thodupuzha | C | 79 | 79 |
| 54. | Ernakulam | 79-80 | Mettancheri | C | 110 | 110 |
| 55. | " | 80-81 | N.Paravoor | S | 113 | 113 |
| 56. | " | 82-83 | Vadavacode | S | 126 | 126 |
| 57. | " | 83-84 | Vypin | C | 125 | 110 |
| 58. | " | 89-90 | Mulanthuruthy | C | 114 | 97 |
| 59. | " | 93-94 | Vythila | C | 50 | - |
| 60. | " | 94-95 | Kochi | C | 463 | - |
| 61. | Thrissur | 78-79 | Chavakkad | C | 199 | 196 |
| 62. | " | 80-81 | Anthikad | S | 101 | 101 |
| 63. | " | 82-83 | Mala | S | 118 | 118 |
| 64. | " | 83-84 | Chalakydy | C | 139 | 138 |
| 65. | " | 85-86 | Thaikulem | C | 121 | 109 |
| 66. | " | 86-87 | Pazheyannoor | C | 166 | 150 |
| 67. | " | 88-89 | Mullassery | C | 106 | 96 |
| 68. | " | 89-90 | Irinjalakuda | C | 135 | 131 |
| 69. | " | 93-94 | Vadakkancherry | C | 174 | - |
| 70. | " | 93-94 | Vellangalloor | C | 96 | 18 |
| 71. | " | 94-95 | Chowannoor | C | 159 | - |

| | | | | | | |
|------|-------------------|-------|------------------|---|-----|-----|
| 72. | Palakkad | 79-80 | Attappady(T) | C | 115 | 115 |
| 73. | " | 80-81 | Kuzhalmandam | S | 117 | 117 |
| 74. | " | 81-82 | Kollangode | C | 137 | 123 |
| 75. | " | 83-84 | Alathur | C | 138 | 128 |
| 76. | " | 83-84 | Sreekrishnepuram | C | 138 | 133 |
| 77. | " | 86-87 | Ottappalam | C | 174 | 166 |
| 78. | " | 86-87 | Chittur | C | 160 | 159 |
| 79. | " | 88-89 | Mannarghat | C | 259 | 259 |
| 80. | " | 89-90 | Thrithala | C | 189 | 186 |
| 81. | " | 90-91 | Palakkad | C | 303 | 294 |
| 82. | " | 91-92 | Pattambi | C | 226 | 226 |
| 83. | " | 93-94 | Nenmara | C | 71 | 70 |
| 84. | Malappuram | 75-76 | Vengare | C | 135 | 133 |
| 85. | " | 80-81 | Ponnani | S | 108 | 96 |
| 86. | " | 81-82 | Kondotty | C | 138 | 138 |
| 87. | " | 82-83 | Tirur | S | 140 | 134 |
| 88. | " | 83-84 | Manjeri | C | 127 | 124 |
| 89. | " | 83-84 | Perinthalmanna | C | 134 | 134 |
| 90. | " | 83-84 | Thanur | C | 124 | 117 |
| 91. | " | 85-86 | Thirurangedi | C | 192 | 173 |
| 92. | " | 90-91 | Vendoor | C | 253 | 250 |
| 93. | " | 91-92 | Kuttiapuram | C | 157 | 146 |
| 94. | " | 93-94 | Nilambur | C | 211 | 206 |
| 95. | " | 93-94 | Mankada | C | 228 | 200 |
| 96. | " | 93-94 | Malappuram | C | 174 | 154 |
| 97. | " | 93-94 | Andethodu | C | 133 | 133 |
| 98. | Kozhikode | 77-78 | Kozhikode(U.I) | S | 101 | 101 |
| 99. | " | 82-83 | Koduvally | C | 158 | 158 |
| 100. | " | 82-83 | Meledy | S | 122 | 122 |
| 101. | " | 83-84 | Perambra | C | 144 | 142 |
| 102. | " | 83-84 | Kozhikode (U.2) | C | 111 | 108 |
| 103. | " | 83-84 | Kunnamangalam | C | 133 | 133 |
| 104. | " | 89-90 | Belusseri | C | 244 | 219 |
| 105. | Wayanad | 78-79 | Mananthavady | C | 185 | 178 |
| 106. | " | 82-83 | Kalpatta | C | 162 | 152 |
| 107. | " | 82-83 | Sultan Battery | C | 170 | 167 |
| 108. | Kannur | 81-82 | Thaliperambu | C | 149 | 149 |
| 109. | " | 82-83 | Kannur(U) | C | 106 | 33 |
| 110. | " | 82-83 | Edakkad | S | 121 | 121 |
| 111. | " | 83-84 | Koothuparambu | C | 126 | 122 |
| 112. | " | 86-87 | Peravoor | C | 128 | 128 |
| 113. | " | 93-94 | Kannur | C | 156 | 118 |

Contd... Appendix -10.12

| | | | | | | |
|------|---|-------|------------|---|-----|-----|
| 114. | * | 93-94 | Payyannur | C | 341 | 283 |
| 115. | * | 93-94 | Irikkur | C | 214 | 214 |
| 16. | * | 93-94 | Iritty | C | 163 | - |
| 117. | * | 93-94 | Thalassery | C | 197 | - |
| 118. | | 80-81 | Kanhangad | C | 195 | 186 |
| 119. | * | 85-86 | Kasargode | C | 176 | 157 |
| 120. | * | 93-94 | Manjeswar | C | 211 | 23 |

Appendix - 10.13

Nutrition Programmes - Centre and Beneficiaries

| | Department Implementing the programme | Programme | No. of Centres | | No. of beneficiaries (Rs. Lakhs) | |
|----|---------------------------------------------|-----------------------------------------------------------|----------------|---------|-------------------------------------|---------|
| | | | 1995-96 | 1996-97 | 1995-96 | 1996-97 |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Social Welfare Department | Special nutrition Programme | 15154 | 15805 | 9.6 | 10.14 |
| 2. | Rural Development Department | Composite project for women and pre-school children | 842 | 889 | 1.23 | 0.70 |
| | | Non-ICDS Balawadies Feeding Centre | 934 | 913 | | 0.87 |
| 3. | Education Department | School meals Programme | 10586 | 11370 | 20.86 | 23.75 |

Appendix : 10.14

District - wise Details of Enrolment of Scheduled Caste / Sheduled Tribe Students at School Level as on 1.7.1997

| Sl.No | District | LPS | | | UPS | | | HS | | | Attached Section of T.T.I | | |
|--------------|--------------------|----------------|---------------|--------------|----------------|---------------|--------------|----------------|---------------|--------------|---------------------------|-------------|-----------|
| | | General | SC | ST | General | SC | ST | General | SC | ST | General | SC | ST |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1. | Thiruvananthapuram | 124255 | 18982 | 792 | 94424 | 15161 | 804 | 282184 | 39112 | 2350 | 4452 | 531 | 9 |
| 2. | Kollam | 105297 | 16822 | 451 | 84246 | 13866 | 327 | 217909 | 32175 | 572 | 853 | 224 | 2 |
| 3. | Pathanamthitta | 50872 | 8530 | 335 | 32088 | 5673 | 154 | 109265 | 18700 | 648 | 424 | 66 | - |
| 4. | Alappuzha | 78781 | 8547 | 147 | 54828 | 6722 | 136 | 184663 | 20566 | 335 | 3074 | 458 | 8 |
| 5. | Kottayam | 74130 | 6667 | 693 | 55729 | 5550 | 697 | 170636 | 16009 | 2202 | 994 | 60 | 1 |
| 6. | Idukki | 41231 | 8818 | 1652 | 38890 | 6245 | 2471 | 92269 | 13057 | 3466 | 65 | 3 | - |
| 7. | Ernakulam | 97885 | 10465 | 293 | 79322 | 9044 | 310 | 270937 | 26475 | 835 | 956 | 160 | 6 |
| 8. | Thrissur | 128485 | 17237 | 383 | 115409 | 15960 | 224 | 258078 | 33003 | 746 | 762 | 101 | 2 |
| 9. | Palaghat | 121199 | 21193 | 2435 | 162626 | 28472 | 1317 | 208396 | 30340 | 1526 | 1749 | 334 | - |
| 10. | Malappuram | 230237 | 17116 | 637 | 284742 | 23035 | 888 | 298779 | 23869 | 313 | 216 | 42 | - |
| 11. | Kozhikkode | 125763 | 7413 | 337 | 188872 | 14533 | 294 | 220804 | 15086 | 585 | 1145 | 83 | - |
| 12. | Wayanad | 26981 | 1510 | 6111 | 47278 | 2347 | 7726 | 62785 | 3764 | 8560 | 1297 | 65 | 50 |
| 13. | Kannur | 109798 | 4194 | 781 | 168007 | 7957 | 2070 | 183503 | 8320 | 1139 | 1180 | 51 | - |
| 14. | Kasaragod | 45862 | 4284 | 1059 | 72058 | 5661 | 1882 | 117034 | 7982 | 3151 | 528 | 33 | 4 |
| Total | | 1360776 | 151758 | 16106 | 1478511 | 160226 | 19300 | 2677242 | 288458 | 26428 | 17695 | 2211 | 82 |

Admission details of Scheduled Caste/Scheduled Tribe students in Medical/Para-Medical courses during 1992-93 to 1996-97

| Sl.No. | Course | 1992-93 | | | 1993-94 | | | 1994-95 | | | 1995-96 | | | 1996-97 | | |
|--------|-------------------------|---------|----|-------|---------|----|-------|---------|----|-------|---------|----|-------|---------|----|-------|
| | | SC | ST | Total | SC | ST | Total | SC | ST | Total | SC | ST | Total | SC | ST | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 1. | MBBS | 44 | 11 | 55 | 44 | 11 | 55 | 44 | 11 | 55 | 43 | 11 | 54 | 43 | 11 | 54 |
| 2. | BDS | 4 | 1 | 5 | 4 | 1 | 5 | 4 | 1 | 5 | 5 | 1 | 6 | 5 | 1 | 6 |
| 3. | B.Pharm | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 |
| 4. | B.Sc Nursing (Men) | 1 | - | 1 | 2 | - | 2 | 2 | - | 2 | 2 | - | 2 | 2 | - | 2 |
| 5. | B.Sc Nursing (Women) | 5 | 1 | 6 | 10 | 3 | 13 | 10 | 3 | 13 | 10 | 2 | 12 | 10 | 2 | 12 |
| 6. | B.Sc MLT | 2 | - | 2 | 2 | - | 2 | 2 | - | 2 | 2 | - | 2 | 2 | - | 2 |
| | Para Medical Course | | | | | | | | | | | | | | | |
| 7. | MCT | 20 | - | 20 | 20 | - | 20 | 20 | - | 20 | 20 | - | 20 | 19 | 1 | 20 |
| 8. | CRA | 30 | - | 30 | 30 | - | 30 | 30 | 2 | 32 | 30 | - | 30 | 28 | 2 | 30 |
| 9. | Ophthalmic Assistant | 20 | - | 20 | 20 | - | 20 | 20 | 1 | 21 | 20 | - | 20 | 20 | - | 20 |
| 10. | Dental Mechanic Course | 10 | - | 10 | 9 | 1 | 10 | 10 | - | 10 | 10 | - | 10 | 10 | - | 10 |
| 11. | Dental Hygienist Course | | | | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 |

Number of Houses Constructed by the ST Development Department

| Sl.No. | District | 1992-93 | | | 1993-94 | | | 1994-95 | | | 1995-96 | | | 1996-97 | | |
|--------|--------------------|---------|---|-----|---------|-----|-----|---------|-----|-----|---------|-----|-----|---------|-----|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| 1. | Thiruvananthapuram | | | 11 | 37 | 46 | 11 | 46 | 11 | 11 | 11 | 11 | 11 | 11 | 8 | |
| 2. | Kollam | | | 5 | 11 | 18 | 11 | 18 | 20 | 20 | 20 | 20 | 20 | 20 | 17 | |
| 3. | Pathanamthitta | | | 8 | 8 | 12 | 8 | 12 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | |
| 4. | Alappuzha | | | 14 | 1 | 26 | 1 | 26 | 15 | 15 | 15 | 15 | 15 | 15 | 13 | |
| 5. | Kottayam | | | 28 | 18 | 42 | 18 | 42 | 8 | 8 | 8 | 8 | 8 | 8 | 5 | |
| 6. | Idukki | | | 27 | 105 | 139 | 105 | 139 | 19 | 19 | 19 | 19 | 19 | 19 | 14 | |
| 7. | Ernakulam | | | 2 | 11 | 24 | 11 | 24 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | |
| 8. | Thrissur | | | 8 | 18 | 4 | 18 | 4 | - | - | - | - | - | - | 2 | |
| 9. | Palakkad | | | 41 | 130 | 28 | 130 | 28 | 17 | 17 | 17 | 17 | 17 | 17 | 13 | |
| 10. | Malappuram | | | - | 37 | 67 | 37 | 67 | - | - | - | - | - | - | 4 | |
| 11. | Kozhikode | | | 5 | 15 | 13 | 15 | 13 | - | - | - | - | - | - | 2 | |
| 12. | Wayanad | | | 346 | 390 | 349 | 390 | 349 | 270 | 270 | 270 | 270 | 270 | 270 | 201 | |
| 13. | Kannur | | | 38 | 82 | 5 | 82 | 5 | 28 | 28 | 28 | 28 | 28 | 28 | 21 | |
| 14. | Kasaragod | | | 95 | 19 | 73 | 19 | 73 | 49 | 49 | 49 | 49 | 49 | 49 | 34 | |
| | Total | | | 828 | 880 | 846 | 880 | 846 | 443 | 443 | 443 | 443 | 443 | 443 | 340 | |

* The Figures in the sixth column is provisional

Appendix : 10.17
wise details of Institutions under SC Development Department as on 31.12.1997

| Sl. No. | District | Nursery schools | Boys hostels | Girls hostels | ITC | Other Institutions | | | Civil Services Coaching |
|---------|--------------------|-----------------|--------------|---------------|-----|--------------------|------|------|-------------------------|
| | | | | | | PCTC | PETC | PETC | |
| 1. | Thiruvahenthapuram | 16 | 7 | 7 | 9 | - | 1 | 1 | 1 |
| 2. | Kollam | 7 | 7 | 5 | 3 | - | - | - | - |
| 3. | Pathanamthitta | 7 | 2 | 4 | 2 | - | - | - | - |
| 4. | Alappuzha | 2 | - | 4 | 2 | 2 | - | - | - |
| 5. | Kottayam | 5 | 2 | 4 | 4 | - | - | - | - |
| 6. | Idukki | 5 | 2 | 3 | - | - | - | - | - |
| 7. | Ernakulam | 22 | 3 | 4 | 1 | - | 1 | - | - |
| 8. | Thrissur | 10 | 4 | 3 | 8 | - | - | - | - |
| 9. | Palaghat | 8 | 12 | 7 | 3 | - | - | - | - |
| 10. | Malapuram | 7 | 6 | 5 | 4 | - | - | - | - |
| 11. | Kozhikode | 4 | 6 | 4 | 2 | - | - | 1 | - |
| 12. | Wayanad | - | 1 | - | - | - | - | - | - |
| 13. | Kannur | 3 | 6 | 3 | 1 | 1 | - | - | - |
| 14. | Kasaragod | 6 | 6 | 2 | 2 | - | - | - | - |
| Total | | 102 | 64 | 55 | 41 | 3 | 3 | 3 | 1 |

Appendix -10.18

District wise details of Institutions under the ST Development Department during 1996-97

| Sl.No. | District | Balawadies/ Feeding Centre Kinter Garten | Boys' Hostel | Girls' Hostel | School | Other Institutions |
|--------|--------------------|------------------------------------------|--------------|---------------|--------|--------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Thiruvananthapuram | 7 | 2 | 1 | 1 | 9 |
| 2. | Kollam | 2 | 2 | 2 | - | 4 |
| 3. | Pathanamthitta | -1 | 2 | 1 | - | 4 |
| 4. | Alappuzha | - | - | 1 | - | - |
| 5. | Kottayam | 4 | 1 | 2 | - | 4 |
| 6. | Idukki | 8 | 13 | 7 | - | 9 |
| 7. | Ernakulam | - | - | - | - | - |
| 8. | Thrissur | 2 | 2 | 1 | - | - |
| 9. | Palakkad | 8 | 14 | 3 | - | 6 |
| 10. | Malappuram | 3 | 8 | 3 | 1 | 3 |
| 11. | Kozhikode | 2 | 3 | 1 | - | - |
| 12. | Wayanad | 17 | 25 | 8 | 2 | 13 |
| 13. | Kannur | 2 | 9 | 2 | - | 4 |
| 14. | Kasaragod | 4 | 2 | - | - | 1 |
| Total | | 58 | 83 | 32 | 4 | 57 * |

* 27 training centre, 20 Dispensaries, 1 Hospital, 5 Midwifery centre, 2 Mobile Medical Unit and 2 Mobile Employment Exchange.

**Statement showing the Physical Achievements of Major Schemes implemented for Scheduled Castes
(From 1991-92 onwards)**

| Scheme | Unit | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | Total (Col.4 to 8) |
|---------------------------------------------------------------------|----------|---------|---------|---------|---------|---------|---------|-----------------------|
| | | 3 | 4 | 5 | 6 | 7 | 8 | |
| 1 | 2 | | | | | | 9 | |
| 1. Praramiculation Studies | Students | 633125 | 658366 | 620391 | 575392 | 579987 | 572700 | 3006836 |
| 2. Balawadies | Children | 2147 | 2238 | 1948 | 1541 | 1114 | 690 | 7531 |
| 3. Nuseriy Schools | Children | 1306 | 1393 | 1595 | 1265 | 1319 | 2275 | 7847 |
| 4. Prematric Hostels | Students | 2820 | 2952 | 2977 | 2837 | 2716 | 2570 | 14052 |
| 5. Boarding Grant | Students | 721 | 578 | 676 | 581 | 539 | 544 | 2918 |
| 6. Postmatric Hostels | Students | 888 | 945 | 944 | 907 | 804 | 961 | 4561 |
| 7. Upgradation of performance in Sports and Games | Students | 70 | 70 | 60 | 70 | 70 | 64 | 334 |
| 8. Cloth Supply | Students | 3602 | 3665 | 3635 | 3417 | 3215 | 3077 | 17009 |
| 9. Special Incentive to Talented Students | Students | 395 | 244 | 222 | 517 | 539 | 1120 | 2642 |
| 10. Tutorial System | Students | 1342 | 1084 | 1291 | 1732 | 1716 | 1533 | 7356 |
| 11. Dormitorias | Students | 385 | 377 | 144 | 211 | 62 | -- | 794 |
| 12. Bharat Darshan | Students | 46 | 41 | 44 | 42 | 45 | 42 | 214 |
| 13. House Construction Rehabilitation | Families | 1204 | 819 | 1088 | 1173 | 1172 | 263 | 4515 |
| 14. Housing Programme | Families | 760 | 1459 | 738 | 684 | 647 | 56 | 3584 |
| 15. Improvement of Housing Facilities | Families | 2548 | -- | 114 | 662 | 153 | 222 | 1151 |
| 16. Thatching Grant | Families | 5314 | 5340 | 1610 | 1600 | 1600 | 1807 | 11957 |
| 17. Tiling Grant | Families | 174 | 117 | 105 | 105 | 95 | 82 | 504 |
| 18. Industrial Training Centres | Students | 480 | 946 | 1075 | 1304 | 1215 | 1304 | 5844 |
| 19. Production-cum-Training Centres | Students | 456 | 22 | 24 | 36 | 25 | 36 | 143 |
| 20. Inter-caste Marriage Grant | Couples | 943 | 592 | 594 | 572 | 519 | 622 | 2899 |
| 21. Temple Entry Proclamation Fund | Students | 84 | 88 | 93 | 106 | 77 | 106 | 470 |
| 22. Assistance for Marriage and Assistance for Major Treatment | Persons | 1994 | 974 | 1174 | 3222 | 1196 | 2679 | 9245 |
| 23. Better Education | Students | 80 | 141 | 182 | 194 | 215 | 237 | 969 |
| 24. Dependants of persons engaged in Unclean Occupation in the Past | Students | -- | 998 | 1084 | 838 | 1189 | 1266 | 5375 |
| 25. Intensive Habitat Development programme | Habitats | 180 | 324 | 324 | 193 | 292 | 336 | 1469 |
| 26. Prevention of Atrocities Act | Persons | -- | -- | -- | 152 | 158 | 120 | 430 |
| 27. Pra-Examination Coaching Centre | Students | 27 | 22 | 25 | 30 | 22 | 29 | 128 |

Major Physical Achievements under Special Component Plan and Tribal Sub Plan (1996-97)

| Items | Achievements during 1996-97 | | | |
|---------------------------------------------------------|-----------------------------|-------|-------|-------|
| | Units | SCP | TSP | TSP |
| 1 | 2 | 3 | 4 | 4 |
| 1. Agro-Service Centres | No | 5 | 1 | 1 |
| 2. Bio-gass Plants | No | 155 | -- | -- |
| 3. Vegetable Cultivation | Units | 6190 | -- | -- |
| 4. Agriculture Development Schemes | Families | 68016 | -- | -- |
| 5. Soil Conservation | Ha. | 439 | 73.47 | 73.47 |
| 6. Goat Units | No | 2506 | 526 | 526 |
| 7. Dairy Units | No | 995 | 204 | 204 |
| 8. Poultry Units | No | 986 | -- | -- |
| 9. Fisheries | No. of families | 1250 | 500 | 500 |
| 10. Co-operative Societies | No | 285 | 80 | 80 |
| 11. IRDP (including TRYSEM) | No. of families | 20130 | 1430 | 1430 |
| 12. JRY | LMD | 37.57 | 6.54 | 6.54 |
| 13. EAS | LMD | 8.12 | 5.38 | 5.38 |
| 14. Rural Sanitation Programme (families benefited) | No | 2504 | 687 | 687 |
| 15. Community Development Programme | Beneficiaries | 2638 | 155 | 155 |
| 18. Assignees of Surplus Land | No of beneficiaries | 328 | -- | -- |
| 17. Colonies Electrified | No | 451 | 84 | 84 |
| 18. IREP (Families benefited) | No | 44320 | 950 | 950 |
| 19. Families Assisted under Small Scale Industries | No | 2609 | 575 | 575 |
| 20. Families Assisted under handlooms | No | 2174 | 692 | 692 |
| 21. Families benefited under Khadi & Village Industries | No | 426 | 680 | 680 |
| 22. Families Assisted under Coir Industries | No | 1096 | -- | -- |
| 23. Road Works | No | 129 | 53 | 53 |
| 24. Water supply Schemes | No | 332 | 34 | 34 |
| 25. Housing | No | 4481 | 1129 | 1129 |

Number of SC/ST Families Assisted under Various Programmes

| Sector | Families Assisted | | |
|-------------------------------|-------------------|----|-------|
| | SC | ST | ST |
| 1 | 2 | 3 | 3 |
| 1. Agriculture | 68016 | | 5894 |
| 2. Land Boerd | 470 | | 90 |
| 3. Animal Husbandry | 3125 | | 550 |
| 4. Deiry Development | 1054 | | 204 |
| 5. Fishenes | 1280 | | 500 |
| 6. KSDC for SC/ST | 2858 | | 262 |
| 7. Industries | 2809 | | 575 |
| 8. Khadi & Villege Industries | 245 | | 861 |
| 9. IRDP | 16618 | | 1135 |
| Total | 96545 | | 10054 |

Appendix -10.22

KSDC for SC/ST Ltd. Implementation of Development Schemes upto 31-3-1997

| Sl. No. | Schemes | Achievement | |
|---------|----------------------------------------------------------------|--------------------------|--------------------------|
| | | Financial (Rs. in lakhs) | Physical (Beneficiaries) |
| 1 | 2 | 3 | 4 |
| 1. | Small Business Trade & Industry Scheme | 160.96 | 4028 |
| 2. | Margin Money for Starting Industries in Mini Industrial Estate | 2.53 | 20 |
| 3. | Loan for Purchase of Machinery | 0.42 | 5 |
| 4. | Sewing Machine Scheme | 73.51 | 4098 |
| 5. | Agricultural Land Purchase Scheme | 970.38 | 9649 |
| 6. | Foreign Employment Scheme | 270.06 | 3025 |
| 7. | Housing Scheme No. I | NA | NA |
| 8. | Housing Scheme No. II | 294.88 | 9577 |
| 9. | Housing Scheme No. III | 1.54 | 40 |
| 10. | Housing Scheme No. IV | 388.20 | 9206 |

Contd... Appendix -10.22

| 1 | 2 | 3 | 4 |
|-----|-----------------------------------------------------------------------------|----------------|---------------|
| 11. | Housing Scheme No. V | 464.389 | 8639 |
| 12. | Housing Scheme No. VI | 256.38 | 3260 |
| 13. | Ambedkar Rural Housing Scheme | 422.45 | 3221 |
| 14. | New Ambedkar Rural Housing Scheme | 382.63 | 1406 |
| 15. | Margin Money Deposit Scheme | 2122.70 | 47655 |
| 16. | Margin Money Loan Scheme | 210.04 | 133 |
| 17. | Training Programme & Others | 27.09 | 3521 |
| 18. | Traditional Occupation | 56.19 | 774 |
| 19. | Vegetable Stall Scheme | 12.40 | 126 |
| 20. | Scavenger Rehabilitation Scheme | 27.88 | 374 |
| 21. | Professional Service Scheme | 49.78 | 1063 |
| 22. | Commercial Centra Scheme | 124.85 | 260 |
| 23. | Hollow Bricks | 6.12 | 6 |
| 24. | Poultry Farm | 5.11 | 10 |
| 25. | Individual Scheme | 6.84 | 2 |
| 26. | Typwriting Intsitutas | 0.16 | 1 |
| 27. | Transport Scheme No. III | 163.40 | 537 |
| 28. | Photocopiar/STD Booth/Typewriter/DTP/Lamination | 84.78 | 143 |
| 29. | Video Camera Scheme | 32.20 | 59 |
| 30. | Milch Animal Schama | 74.97 | 446 |
| 31. | TV/VCR Repairing & Service Centra | 5.20 | 9 |
| 32. | Two/Three whaelar Workshop | 1.00 | 2 |
| 33. | Transport Schama No.VII (Auto Pickup Van) | 28.12 | 51 |
| 34. | Medical Stores | 8.00 | 6 |
| 35. | Transport Scheme No.V {Jeep/Taxi} | 244.03 | 92 |
| 38. | Transport Schama No. TSI, TSIV, TSVI, TSIX and Hire purchasa of Autorikshaw | 577.76 | 1458 |
| 37. | Transport Schame No.II (Autorickshaw, Jeep, Taxi & Tempo) | 179.90 | 234 |
| 38. | Transport Schama No.X (Load Carrier Scheme) | 4.41 | 9 |
| 39. | Transport Scheme No.XII (Jeep/Car) | 3.22 | 4 |
| 40. | Autorishaw Load Carrier (Transport Scheme No.IC) | 50.01 | 110 |
| 41. | Water Scootar Schama | 2.14 | 6 |
| 42. | Cabla TV | 21.39 | 30 |
| 43. | Loan to co-operative Societies | 84.79 | 138 |
| | Total | 7900.80 | 113431 |

Appendix -10.23

**Financial and Physical (No. of Beneficiaries) Achievements of Kerala State Development Corporation
for Christian Converts as on 31-3-97**

| Sl.No. | Name of Scheme | 1982-83 | | 1993-94 | | 1994-95 | | 1995-96 | | 1996-97 | |
|--------|----------------------------|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|
| | | F | P | F | P | F | P | F | P | F | P |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1. | Foreign Employment Scheme | 1.60 | 16 | 0.90 | 9 | 0.90 | 9 | 1.00 | 10 | 0.10 | 1 |
| 2. | Agri. Lend Purchase Scheme | 4.50 | 35 | 20.44 | 118 | 29.32 | 172 | 8.44 | 43 | 8.09 | 43 |
| 3. | Self Employment Scheme | 0.81 | 16 | 5.51 | 83 | 1.66 | 31 | 1.26 | 23 | 0.06 | 1 |
| 4. | Sewing Machine | -- | -- | 0.71 | 39 | -- | -- | -- | -- | -- | -- |
| 5. | Incentive grant | 0.99 | 302 | 0.90 | 269 | 0.76 | 240 | 0.42 | 133 | 0.22 | 71 |
| 6. | House Construction | -- | -- | -- | -- | 0.45 | 5 | 26.3 | 209 | 0.47 | 3 |
| 7. | House Prevamping | -- | -- | -- | -- | -- | -- | 0.16 | 27 | -- | -- |
| | | 7.90 | 368 | 28.46 | 578 | 33.09 | 457 | 37.58 | 445 | 8.94 | 119 |

F - Financial

P - Physical (No. of Beneficiaries)

Appendix -10.24

Achievement of Kerala State Backward Classes Development Corporation

| Sl.No. | Name of Scheme | Financial (Rs. lakhs) | | | | | | Physical | |
|--------|--------------------------------|-----------------------|---------|---------|---------|---------|---------|----------|---------|
| | | 1994-95 | 1995-96 | 1996-97 | 1994-95 | 1995-96 | 1996-97 | 1995-96 | 1996-97 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| | NBCFDC assisted Schemes | | | | | | | | |
| 1. | Clinical Laboratory | 7.0 | -- | -- | 10 | -- | -- | -- | -- |
| 2. | Allpathy/Ayurvedic Clinics | 5.20 | -- | -- | 17 | -- | -- | -- | -- |
| 3. | Photo/Video Recording Studio | 76.08 | -- | -- | 74 | -- | -- | -- | -- |
| 4. | Upholstery Unit | 0.74 | -- | -- | 4 | -- | -- | -- | -- |
| 5. | Electrical goods servicing | 13.97 | -- | -- | 43 | -- | -- | -- | -- |
| 6. | Spray Painting Unit | 0.62 | -- | -- | 4 | -- | -- | -- | -- |
| 7. | Dairy Unit | 23.96 | -- | 65.05 | 141 | -- | -- | -- | 262 |
| 8. | Legal Consultancy | 19.47 | -- | -- | 41 | -- | -- | -- | -- |

Contd... Appendix -10.24

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------------------|---|---|---------------|---------------|---------------|-------------|------------|-------------|
| 9. Readymade Garments | | | 73.95 | -- | -- | 194 | -- | -- |
| 10. Provision Store | | | 157.17 | -- | -- | 334 | -- | -- |
| 11. Vegetable Shop | | | 17.22 | 36.04 | -- | 76 | 162 | -- |
| 12. Engineering Consultancy | | | 2.77 | -- | -- | 11 | -- | -- |
| 13. Beauty Parlour | | | 2.40 | -- | -- | 7 | -- | -- |
| 14. Automobile Workshop | | | 4.20 | -- | -- | 12 | -- | -- |
| 15. Bricks Manufacturing | | | 10.55 | -- | -- | 32 | -- | -- |
| 16. Hair Dressing Centre | | | 11.71 | 5.53 | -- | 33 | 25 | -- |
| 17. Tourist Taxi Car | | | 135.11 | -- | 51.27 | 50 | -- | 15 |
| 18. Autorickshaw | | | 45.76 | 64.05 | -- | 100 | 145 | -- |
| 19. Ladies Store | | | 18.24 | -- | -- | 64 | -- | -- |
| 20. Two/Three Wheeler Workshop | | | 1.61 | 2.36 | -- | 10 | 17 | -- |
| 21. Stationery shop | | | -- | 131.27 | 39.74 | -- | 406 | 143 |
| 22. Pick-up Autorickshaw | | | -- | 30.26 | -- | -- | 65 | -- |
| 23. Copra Production Unit | | | -- | -- | 204.06 | -- | -- | 299 |
| 24. Furniture Mart. | | | -- | -- | 240.39 | -- | -- | 213 |
| 25. Tourist Taxi Jeep | | | -- | -- | 29.02 | -- | -- | 9 |
| 26. Textile Unit | | | -- | -- | 57.78 | -- | -- | 137 |
| 27. Tourist Trakker | | | -- | -- | 3.44 | -- | -- | 1 |
| 28. Poultry Unit | | | -- | -- | 23.65 | -- | -- | 36 |
| 29. Tailoring shop | | | -- | -- | 31.33 | -- | -- | 107 |
| 30. Pottery Unit | | | -- | -- | 1.57 | -- | -- | 4 |
| Sub Total | | | 627.74 | 269.52 | 748.32 | 1257 | 820 | 1226 |
| NMDFC assisted Schemes-II | | | | | | | | |
| 1. Vegetable shop | | | -- | -- | 29.02 | -- | -- | 130 |
| 2. Welding Workshop | | | -- | -- | 10.49 | -- | -- | 31 |
| 3. Stationery Shop | | | -- | -- | 91.93 | -- | -- | 298 |
| 4. Pick-up Autorickshaw | | | -- | -- | 17.15 | -- | -- | 37 |
| 5. Photocopier Unit | | | -- | -- | 7.62 | -- | -- | 7 |
| Sub Total | | | -- | -- | 156.21 | -- | -- | 503 |
| Grand Total | | | 627.74 | 269.52 | 904.53 | 1257 | 820 | 1729 |

State - wise Financial Assistance Disbursed by All India Financial Institutions During 1995-96

(Rs. in Crores)

| Sl. No. | STATES | IDBI | | % to IFCI | | % to ICICI | | % to UTI | | % to GIC | | % to LIC | | % to NABARD | | % to NCDC | | % to Grand Total | |
|-------------------|----------------|---------|------------|-----------|------------|------------|------------|----------|------------|----------|------------|----------|------------|-------------|------------|-----------|------------|------------------|------------|
| | | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total |
| 1. | Andhra Pradesh | 875.0 | 8.30 | 293.1 | 6.42 | 529.5 | 7.44 | 0.5 | 0.02 | 6.7 | 1.46 | 12 | 0.55 | 337.7 | 11.02 | 24.9 | 7.85 | 2079.4 | 6.74 |
| 2. | Assam | 43.8 | 0.42 | 15.2 | 0.33 | 29.3 | 0.41 | - | - | 0.1 | 0.02 | 1 | 0.05 | 44.5 | 1.45 | 3.5 | 1.10 | 137.4 | 0.45 |
| 3. | Bihar | 79.5 | 0.75 | 31.8 | 0.70 | 32.9 | 0.46 | - | - | - | - | 25 | 1.16 | 82.8 | 2.70 | 8.1 | 2.56 | 260.1 | 0.84 |
| 4. | Gujarat | 1716.3 | 16.29 | 631.3 | 13.83 | 1299.4 | 18.25 | 59.4 | 2.24 | 30.0 | 6.54 | 87 | 4.02 | 186.0 | 6.07 | 12.0 | 3.78 | 4021.4 | 13.03 |
| 5. | Haryana | 245.6 | 2.33 | 143.7 | 3.15 | 130.4 | 1.83 | - | - | 15.5 | 3.38 | - | - | 171.4 | 5.59 | 6.4 | 2.02 | 713.0 | 2.31 |
| 6. | Karnataka | 733.5 | 6.96 | 293.3 | 6.43 | 569.9 | 8.00 | 90.6 | 3.42 | 7.5 | 1.64 | 145 | 6.71 | 242.9 | 7.93 | 21.3 | 6.72 | 2104.0 | 6.82 |
| 7. | Kerala | 115.6 | 1.10 | 4.0 | 0.09 | 38.1 | 0.54 | - | - | 0.1 | 0.02 | 5 | 0.23 | 127.0 | 4.14 | 24.3 | 7.66 | 314.1 | 1.02 |
| 8. | Madhya Pradesh | 606.1 | 5.75 | 507.0 | 11.11 | 287.3 | 4.03 | 1.0 | 0.04 | 14.6 | 3.18 | 28 | 1.29 | 157.2 | 5.13 | 22.4 | 7.06 | 1623.6 | 5.26 |
| 9. | Maharashtra | 1993.9 | 18.92 | 562.1 | 12.32 | 2048.5 | 28.77 | 32.8 | 1.24 | 219.8 | 47.94 | 630 | 29.15 | 345.0 | 11.26 | 90.5 | 28.64 | 5922.9 | 19.19 |
| 10. | Orissa | 105.5 | 1.00 | 47.3 | 1.04 | 15.0 | 0.21 | 0.2 | 0.01 | 2.9 | 0.63 | 9 | 0.42 | 85.1 | 2.78 | 9.1 | 2.87 | 274.1 | 0.89 |
| 11. | Punjab | 222.5 | 2.11 | 188.6 | 4.13 | 92.0 | 1.29 | - | - | 8.8 | 1.92 | 1 | 0.05 | 189.0 | 6.17 | 9.9 | 3.12 | 711.8 | 2.30 |
| 12. | Rajasthan | 475.4 | 4.51 | 211.3 | 4.63 | 540.3 | 7.59 | - | - | 15.3 | 3.34 | 36 | 1.67 | 167.8 | 5.48 | 6.4 | 2.02 | 1452.5 | 4.70 |
| 13. | Tamil Nadu | 1281.0 | 12.16 | 421.9 | 9.25 | 667.3 | 9.37 | - | - | 15.0 | 3.27 | 19 | 0.88 | 266.1 | 8.68 | 39.2 | 12.36 | 2709.5 | 8.97 |
| 14. | Uttar Pradesh | 858.8 | 8.15 | 743.9 | 16.30 | 439.5 | 6.17 | 98.4 | 3.72 | 45.7 | 9.97 | 96 | 4.44 | 475.0 | 15.50 | 11.6 | 3.66 | 2768.9 | 8.97 |
| 15. | West Bengal | 308.4 | 2.93 | 163.5 | 3.58 | 262.0 | 3.68 | 5.0 | 0.19 | 38.6 | 8.42 | 41 | 1.90 | 116.0 | 3.79 | 10.5 | 3.31 | 945 | 3.06 |
| Total | | 9660.9 | 91.68 | 4258 | 93.31 | 6981.4 | 98.04 | 287.9 | 10.88 | 420.6 | 91.73 | 1135 | 52.52 | 2993.5 | 97.69 | 300.4 | 94.73 | 26037.7 | 84.36 |
| Total - All India | | 10536.7 | 100.0 | 4563.3 | 100.00 | 7120.4 | 100.00 | 2645.0 | 100.00 | 458.5 | 100.00 | 2161 | 100.00 | 3064.2 | 100.00 | 317.1 | 100.00 | 30866.2 | 100.00 |

Sources : 1. IDBI - Report on Development Banking in India (1995-96)

2. NCDC - National Cooperative Development Corporation

3. NABARD - National Bank for Agriculture and Rural Development - (Annual Report 1995-96)

State - wise Financial Assistance Disbursed by All India Financial Institutions As at the end March 1996

(Rs. in Crores)

| Sl. No. | STATES | IDBI | | % to IFCI | | % to ICICI | | % to UTI | | LIC | | % to NABARD | | NCDC | | Grand Total | |
|-------------------|----------------|---------|------------|-----------|------------|------------|------------|----------|------------|-------|------------|-------------|------------|--------|------------|-------------|--------|
| | | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | | |
| 1. | Andhra Pradesh | 6351.2 | 8.76 | 1618.4 | 8.11 | 2199.3 | 6.01 | 403.0 | 1.63 | 533 | 5.95 | 3045.6 | 11.06 | 219.0 | 6.19 | 14369.5 | 7.14 |
| 2. | Assam | 486.1 | 0.67 | 130.6 | 0.65 | 151.0 | 0.41 | 35.2 | 0.14 | 29 | 0.32 | 345.3 | 1.25 | 76.3 | 2.16 | 1253.5 | 0.65 |
| 3. | Bihar | 1205.9 | 1.66 | 209.9 | 1.05 | 688.7 | 1.88 | 164.5 | 0.67 | 350 | 3.91 | 1250.6 | 4.54 | 92.4 | 2.61 | 3962 | 2.04 |
| 4. | Gujarat | 9959.1 | 13.73 | 2619.7 | 13.13 | 6038.8 | 16.50 | 1544.7 | 6.25 | 1163 | 12.99 | 1468.1 | 5.33 | 93.0 | 2.63 | 22886.4 | 11.81 |
| 5. | Haryana | 1918.3 | 2.64 | 655.3 | 3.28 | 810.2 | 2.21 | 76.8 | 0.31 | 32 | 0.36 | 1481.2 | 5.38 | 69.7 | 1.97 | 5043.5 | 2.60 |
| 6. | Karnataka | 4612.8 | 6.36 | 1040.7 | 5.22 | 2358.2 | 6.45 | 471.0 | 1.90 | 427 | 4.77 | 2162.4 | 7.85 | 236.9 | 6.69 | 11309 | 5.83 |
| 7. | Kerala | 1555.3 | 2.14 | 194.7 | 0.98 | 300.7 | 0.82 | 26.3 | 0.11 | 50 | 0.56 | 1108.1 | 4.02 | 207.7 | 5.87 | 3442.8 | 1.78 |
| 8. | Madhya Pradesh | 4360.9 | 6.01 | 1574.3 | 7.89 | 1737.2 | 4.75 | 346.3 | 1.40 | 241 | 2.69 | 1792.9 | 6.51 | 339.2 | 9.59 | 10391.8 | 5.36 |
| 9. | Maharashtra | 13178.4 | 18.17 | 3164.0 | 15.86 | 10493.8 | 28.68 | 5869.2 | 32.73 | 2341 | 26.14 | 2982.1 | 10.83 | 717.3 | 20.29 | 38745.8 | 19.99 |
| 10. | Orissa | 1873.4 | 2.58 | 410.1 | 2.06 | 475.6 | 1.30 | 86.7 | 0.35 | 133 | 1.49 | 791.7 | 2.87 | 107.68 | 3.05 | 3878.1 | 2.00 |
| 11. | Punjab | 1907.2 | 2.63 | 1107.6 | 5.55 | 726.5 | 1.99 | 107.4 | 0.43 | 89 | 0.99 | 1949.1 | 7.08 | 187.1 | 5.29 | 6073.9 | 3.13 |
| 12. | Rajasthan | 3575.6 | 4.93 | 1118.8 | 5.61 | 2007.0 | 5.49 | 163.6 | 0.66 | 198 | 2.21 | 1386.6 | 5.03 | 248.9 | 7.04 | 86.98.5 | 4.49 |
| 13. | Tamil Nadu | 7310.3 | 10.08 | 1604.2 | 8.04 | 3615.5 | 9.88 | 523.8 | 2.12 | 508 | 5.67 | 1938.1 | 7.04 | 303.0 | 8.57 | 15802.9 | 8.15 |
| 14. | Uttar Pradesh | 6288.1 | 8.67 | 2634.6 | 13.21 | 2296.7 | 6.28 | 842.4 | 3.41 | 404 | 4.51 | 4352.6 | 15.80 | 392.0 | 11.09 | 17210.4 | 8.88 |
| 15. | West Bengal | 3152.5 | 4.35 | 764.3 | 3.83 | 1382.2 | 3.78 | 411.6 | 1.66 | 473 | 5.28 | 1007.7 | 3.66 | 121.5 | 3.44 | 7312.8 | 3.77 |
| Total | | 67735.1 | 93.38 | 18847.2 | 94.47 | 35281.4 | 96.43 | 11072.5 | 44.77 | 6971 | 77.84 | 27062.1 | 98.25 | 3411.6 | 96.48 | 170380.9 | 87.89 |
| Total - All India | | 72538.8 | 100.0 | 19949.5 | 100.00 | 36589.3 | 100.00 | 24730.9 | 100.00 | 8956 | 100.00 | 27543 | 100.00 | 3535.9 | 100.00 | 193843.2 | 100.00 |

Sources : 1. IDBI - Report on Development Banking in India (1995-96)
2. NABARD (Annual Report 1995-96)

State - wise Per Capita Assistance Disbursed by All India Financial Institutions During 1993-94 to 1995-96

(Rupees)

| Sl. No. | STATES | IDBI | | IFCI | | ICICI | | LIC | | UTI | | GIC | | Total | | | | | | | | |
|---------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|---------|---------|---------|------|------|-------|-------|-------|
| | | 1993-94 | 1994-95 | 1995-96 | 1993-94 | 1994-95 | 1995-96 | 1993-94 | 1994-95 | 1995-96 | 1993-94 | 1994-95 | 1995-96 | | 1993-94 | 1994-95 | 1995-96 | | | | | |
| 1. | Andhra Pradesh | 74.1 | 135.0 | 122.1 | 13.8 | 39.1 | 40.9 | 38.8 | 41.8 | 73.9 | 1.3 | 1.8 | 1.7 | 59 | 0.5 | 0.1 | 6.7 | 0.4 | 0.9 | 140.6 | 218.6 | 239.6 |
| 2. | Assam | 6.7 | 10.9 | 17.5 | 7.6 | 3.5 | 6.1 | 12.9 | 7.3 | 11.7 | 1.7 | 1.2 | 0.4 | 2.7 | 5.4 | - | 0.6 | 0.6 | - | 32.2 | 31.7 | 35.7 |
| 3. | Bihar | 7.1 | 8.1 | 8.3 | 1.9 | 2.3 | 3.3 | 12.1 | 9.2 | 3.4 | 0.8 | 1.6 | 2.6 | - | 2.1 | - | - | - | - | 21.9 | 25.3 | 17.6 |
| 4. | Gujarat | 201.5 | 375.8 | 388.6 | 81.7 | 100.9 | 142.9 | 168.3 | 267.9 | 294.2 | 16.5 | 51.6 | 19.7 | 54.8 | 30.7 | 13.4 | 6.5 | 2.6 | 6.8 | 529.3 | 829.5 | 865.6 |
| 5. | Haryana | 99.2 | 120.8 | 137.7 | 34.4 | 34.8 | 80.6 | 56.8 | 85.1 | 73.1 | 1.7 | - | - | 3.1 | - | - | 3.6 | 0.3 | 8.7 | 198.8 | 241.0 | 300.1 |
| 6. | Karnataka | 102.5 | 120.5 | 151.1 | 29.8 | 19.2 | 60.4 | 48.4 | 104.0 | 117.4 | 8.5 | 5.6 | 29.9 | 1.4 | 6.1 | 18.7 | 5.3 | 0.9 | 1.5 | 195.9 | 256.3 | 379.0 |
| 7. | Kerala | 50.1 | 28.7 | 37.2 | 11.4 | 4.2 | 1.3 | 12.2 | 10.5 | 12.2 | - | 1.3 | 1.6 | - | 0.5 | - | - | 1.3 | - | 73.7 | 46.5 | 52.3 |
| 8. | Madhya Pradesh | 88.6 | 89.7 | 83.8 | 31.1 | 23.3 | 70.1 | 36.8 | 48.8 | 39.7 | 3.0 | 4.2 | 3.9 | 1.4 | 1.4 | 0.1 | 0.8 | 2.1 | 2.0 | 161.7 | 169.5 | 199.6 |
| 9. | Maharashtra | 235.2 | 293.0 | 235.0 | 44.7 | 69.1 | 66.3 | 142.2 | 217.4 | 241.5 | 23.1 | 27.9 | 74.3 | 129.7 | 110.7 | 3.9 | 26.3 | 14.0 | 25.9 | 601.2 | 732.1 | 646.9 |
| 10. | Orissa | 105.1 | 42.4 | 30.8 | 5.2 | 15.2 | 13.8 | 20.2 | 15.1 | 4.4 | 4.5 | 5.6 | 2.6 | 2.4 | 4.2 | 0.1 | 0.4 | 0.4 | 0.8 | 137.8 | 82.9 | 52.5 |
| 11. | Punjab | 76.1 | 93.3 | 103.9 | 59.2 | 63.3 | 88.1 | 41.5 | 96.0 | 43.0 | 2.9 | 6.6 | 0.5 | 1.6 | 2.5 | - | 1.0 | 1.4 | 4.1 | 182.3 | 263.1 | 239.8 |
| 12. | Rajasthan | 96.5 | 110.7 | 95.7 | 33.1 | 25.4 | 42.5 | 48.9 | 104.3 | 108.7 | 4.0 | 2.7 | 7.2 | 1.5 | - | - | 0.3 | 2.6 | 3.1 | 184.3 | 245.7 | 257.2 |
| 13. | Tamil Nadu | 127.1 | 158.2 | 216.2 | 17.4 | 47.4 | 71.2 | 78.4 | 115.4 | 112.6 | 3.3 | 4.1 | 3.2 | 5.1 | 4.7 | - | 2.2 | 1.5 | 2.5 | 233.5 | 331.3 | 405.7 |
| 14. | Uttar Pradesh | 34.5 | 50.6 | 55.8 | 9.0 | 25.4 | 48.4 | 19.5 | 28.4 | 28.6 | 1.6 | 5.0 | 6.2 | 1.1 | 7.4 | 6.4 | 0.3 | 1.0 | 3.0 | 66.0 | 117.8 | 14.84 |
| 15. | West Bengal | 40.6 | 57.8 | 42.0 | 29.9 | 6.9 | 22.3 | 31.0 | 22.6 | 35.7 | 6.9 | 2.5 | 5.6 | 1.2 | 1.0 | 0.7 | 3.0 | 0.8 | 5.3 | 112.6 | 91.6 | 111.6 |
| | All India | 87.1 | 115.9 | 114.1 | 24.2 | 31.3 | 49.4 | 49.4 | 75.8 | 77.1 | 6.2 | 11.4 | 23.4 | 61.4 | 47.4 | 28.7 | 4.3 | 3.0 | 5.0 | 232.6 | 284.8 | 297.7 |

Sources : IDBI - Report on Development Banking in India 1994-95 & 1995-96

State-wise Distribution of Commercial Bank Branches And Population Per Bank Office

| Sl.No. | States | No. of Banks as at the end of | | | | | | % to population number of offices | | | | | | Average population per bank branch (in thousand) at the end of | | | |
|--------|-------------------|-------------------------------|------------|------------|------------|-----------|------------|-----------------------------------|------------|-----------|------------|------------|------------|----------------------------------------------------------------|------------|------------|------------|
| | | June 1969 | March 1994 | March 1995 | March 1996 | June 1969 | March 1994 | March 1995 | March 1996 | June 1969 | March 1994 | March 1995 | March 1996 | June 1969 | March 1994 | March 1995 | March 1996 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | | | | |
| 1. | Andhra Pradesh | 567 | 4749 | 4784 | 4851 | 6.9 | 7.7 | 7.7 | 7.7 | 7.5 | 11 | 14 | 13 | | | | |
| 2. | Assam | 74 | 1226 | 1225 | 1232 | 0.9 | 2.0 | 2.0 | 2.0 | 198 | 16 | 18 | 20 | | | | |
| 3. | Bihar | 273 | 4910 | 4911 | 4934 | 3.3 | 7.9 | 7.9 | 7.9 | 207 | 14 | 18 | 20 | | | | |
| 4. | Gujarat | 852 | 3460 | 3470 | 3512 | 9.1 | 5.6 | 5.6 | 5.6 | 34 | 10 | 12 | 13 | | | | |
| 5. | Haryana | 172 | 1312 | 1335 | 1361 | 2.1 | 2.1 | 2.2 | 2.2 | 97 | 10 | 12 | 14 | | | | |
| 6. | Karnataka | 756 | 4364 | 4381 | 4445 | 9.2 | 7.1 | 7.1 | 7.1 | 38 | 9 | 10 | 11 | | | | |
| 7. | Kerala | 601 | 2948 | 3009 | 3073 | 7.3 | 4.8 | 4.9 | 4.9 | 35 | 9 | 10 | 10 | | | | |
| 8. | Madhya Pradesh | 343 | 4439 | 423 | 4421 | 4.2 | 7.1 | 7.1 | 7.0 | 116 | 12 | 15 | 17 | | | | |
| 9. | Maharashtra | 1118 | 5724 | 5745 | 5854 | 13.5 | 9.3 | 9.3 | 9.3 | 44 | 11 | 14 | 15 | | | | |
| 10. | Orissa | 100 | 2144 | 2142 | 2154 | 1.2 | 3.5 | 3.5 | 3.4 | 212 | 12 | 15 | 16 | | | | |
| 11. | Punjab | 346 | 2206 | 2236 | 2275 | 4.2 | 3.6 | 3.8 | 3.6 | 42 | 8 | 9 | 10 | | | | |
| 12. | Rajasthan | 364 | 3138 | 3156 | 3191 | 4.4 | 5.1 | 5.1 | 5.1 | 70 | 11 | 14 | 15 | | | | |
| 13. | Tamil Nadu | 1060 | 4438 | 4465 | 4567 | 12.8 | 7.2 | 7.2 | 7.3 | 37 | 11 | 13 | 13 | | | | |
| 14. | Uttar Pradesh | 747 | 8608 | 8620 | 8670 | 9.0 | 13.9 | 13.9 | 13.8 | 119 | 13 | 16 | 18 | | | | |
| 15. | West Bengal | 504 | 4265 | 4262 | 4291 | 6.1 | 6.9 | 6.9 | 6.8 | 87 | 13 | 16 | 17 | | | | |
| | Total | 7777 | 57931 | 58164 | 58831 | 94.1 | 93.7 | 93.7 | 93.6 | -- | -- | -- | -- | | | | |
| | Total - All India | 8262 | 61852 | 62100 | 62849 | 100.00 | 100.00 | 100.00 | 100.00 | 65 | 11 | 14 | 15 | | | | |

Source : Report on Currency and Finance

Appendix - 12.5
Banking Statistics of Kerala (1988-97)

| Ending March | State Bank Group | | | | | | | | | | Other Nationalised Banks | | | | | | | | | | Gramin Banks | | | | | | | | | |
|--------------------|------------------|---------|----------------------|-------|---------------|----------|---------------|----------------------|----------|---------------|--------------------------|---------------|----------------------|------|---------------|----------|---------------|----------------------|------|---------------|--------------|------|------|--|--|--|--|--|--|--|
| | Total Deposit | | Of which NRE Deposit | | Total Advance | CD Ratio | Total Deposit | Of which NRE Deposit | | Total Advance | CD Ratio | Total Deposit | Of which NRE Deposit | | Total Advance | CD Ratio | Total Deposit | Of which NRE Deposit | | Total Advance | CD Ratio | | | | | | | | | |
| | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) | | | | | | | | |
| 1988 | 1737.73 | 572.72 | 1141.47 | 65.69 | 1956.24 | 585.76 | 1170.69 | 59.84 | 57.38 | Nil | 124.57 | 217.10 | | | | | | | | | | | | | | | | | | |
| 1989 | 2032.18 | 668.94 | 1346.26 | 66.25 | 2315.32 | 670.49 | 1482.66 | 64.04 | 71.20 | Nil | 148.67 | 208.80 | | | | | | | | | | | | | | | | | | |
| 1990 | 2406.71 | 800.30 | 1551.12 | 64.44 | 2718.06 | 832.34 | 1595.29 | 58.69 | 87.74 | Nil | 179.83 | 204.95 | | | | | | | | | | | | | | | | | | |
| 1991 | 2854.66 | 949.58 | 1797.91 | 63.00 | 3205.41 | 997.48 | 1749.20 | 54.57 | 109.78 | Nil | 195.81 | 178.37 | | | | | | | | | | | | | | | | | | |
| 1992 | 3410.27 | 1196.69 | 1850.95 | 54.28 | 3865.81 | 1262.86 | 1830.93 | 47.36 | 142.30 | Nil | 213.37 | 149.94 | | | | | | | | | | | | | | | | | | |
| 1993 | 4285.29 | 1779.54 | 2146.10 | 50.08 | 4743.08 | 1815.06 | 2064.89 | 43.53 | 171.56 | Nil | 232.16 | 135.32 | | | | | | | | | | | | | | | | | | |
| 1994 | 5312.22 | 2369.60 | 2404.91 | 45.27 | 5753.17 | 2418.40 | 2126.10 | 36.96 | 211.59 | Nil | 262.75 | 124.17 | | | | | | | | | | | | | | | | | | |
| 1995 | 6154.52 | 2696.96 | 2934.99 | 47.69 | 6516.30 | 2806.37 | 2387.69 | 36.64 | 260.70 | Nil | 313.90 | 120.41 | | | | | | | | | | | | | | | | | | |
| 1996 | 8935.66 | 3059.13 | 3135.42 | 45.21 | 7261.92 | 3140.39 | 2890.17 | 39.80 | 263.39 | Nil | 351.71 | 133.53 | | | | | | | | | | | | | | | | | | |
| 1997 | 7736.39 | 3648.94 | 3604.73 | 46.59 | 8380.93 | 3872.82 | 3262.32 | 38.93 | 334.85 | Nil | 439.27 | 131.18 | | | | | | | | | | | | | | | | | | |
| Sept. | 8095.70 | 3781.75 | 3687.41 | 45.55 | 8696.06 | 4233.33 | 3449.40 | 39.67 | 348.64 | Nil | 481.92 | 138.23 | | | | | | | | | | | | | | | | | | |
| Grand Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ending March | State Bank Group | | | | | | | | | | Other Private Banks | | | | | | | | | | Grand Total | | | | | | | | | |
| | Total Deposit | | Of which NRE Deposit | | Total Advance | CD Ratio | Total Deposit | Of which NRE Deposit | | Total Advance | CD Ratio | Total Deposit | Of which NRE Deposit | | Total Advance | CD Ratio | Total Deposit | Of which NRE Deposit | | Total Advance | CD Ratio | | | | | | | | | |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) | | | | | | | |
| 1988 | 375.5 | 1158.48 | 2436.73 | 64.96 | 1059.96 | 210.76 | 679.32 | 64.09 | 4811.32 | 1369.24 | 3116.05 | 64.77 | | | | | | | | | | | | | | | | | | |
| 1989 | 4421.5 | 1337.43 | 2977.59 | 67.34 | 1245.05 | 246.32 | 723.56 | 58.11 | 5666.75 | 1583.75 | 3701.15 | 65.31 | | | | | | | | | | | | | | | | | | |
| 1990 | 5212.50 | 1632.64 | 3326.24 | 63.81 | 1407.58 | 286.09 | 791.92 | 56.26 | 6620.08 | 2012.21 | 4118.16 | 62.20 | | | | | | | | | | | | | | | | | | |
| 1991 | 6169.85 | 1947.06 | 3742.92 | 60.66 | 1687.81 | 357.29 | 895.27 | 53.04 | 7857.67 | 2304.35 | 4638.19 | 59.00 | | | | | | | | | | | | | | | | | | |
| 1992 | 7418.38 | 159.55 | 3895.25 | 52.51 | 2252.55 | 579.33 | 1107.71 | 49.18 | 9670.93 | 3038.88 | 5002.96 | 51.73 | | | | | | | | | | | | | | | | | | |
| 1993 | 9199.93 | 34.60 | 4443.15 | 48.30 | 2912.31 | 904.31 | 1374.84 | 47.21 | 12112.24 | 4498.91 | 5817.99 | 48.03 | | | | | | | | | | | | | | | | | | |
| 1994 | 11276.90 | 478.70 | 4793.76 | 43.59 | 3664.17 | 1226.63 | 1647.79 | 44.97 | 14941.06 | 6014.63 | 6441.54 | 43.11 | | | | | | | | | | | | | | | | | | |
| 1995 | 12931.52 | 5503.33 | 5636.58 | 42.51 | 4526.39 | 1382.71 | 2159.94 | 47.72 | 17457.91 | 6886.05 | 7796.62 | 44.66 | | | | | | | | | | | | | | | | | | |
| 1996 | 14410.49 | 6190.32 | 7307.3 | 44.25 | 5710.33 | 1903.88 | 2583.61 | 44.24 | 20171.30 | 8103.40 | 8950.91 | 44.42 | | | | | | | | | | | | | | | | | | |
| 1997 | 16452.17 | 7321.78 | 7811.9 | 44.41 | 8576.92 | 2434.92 | 5175.5 | 46.28 | 23029.09 | 9956.68 | 10481.83 | 45.52 | | | | | | | | | | | | | | | | | | |
| Sept. | 20278.16 | 8015.08 | 7618.7 | 37.57 | 7009.77 | 2707.82 | 5448.09 | 44.91 | 24150.17 | 10722.9 | 10766.82 | 44.58 | | | | | | | | | | | | | | | | | | |

Source : SLBC, Banking Statistics of Kerala.

Appendix - 2.1
SECTORAL DISTRIBUTION OF NET DOMESTIC PRODUCT AT
FACTOR COST - INDIA

(Rs. in Crores)

| Industry of Origine | At current prices | | | At 1980-81 prices | |
|-------------------------------------------------------------|-------------------|----------|----------|-------------------|----------|
| | 1980-81 | 1994-95@ | 1995-98* | 1994-95@ | 1995-98* |
| 1. Agriculture, forestry & fishing | 44091 | 243086 | 257524 | 69480 | 89150 |
| 1.1 Agriculture | 40056 | 223954 | 237047 | 64876 | 64483 |
| 1.2 Forestry & logging | 3229 | 9937 | 10327 | 2786 | 2768 |
| 1.3 Fishing | 806 | 9197 | 10150 | 1818 | 1899 |
| 2. Mining & Quarrying | 1474 | 11870 | 12383 | 2871 | 3078 |
| 3. Manufacturing | 18698 | 132791 | 166507 | 46300 | 52969 |
| 3.1 Registered | 10050 | 81203 | 100961 | 28486 | 32499 |
| 3.2 Unregistered | 8648 | 51588 | 65546 | 17814 | 20470 |
| 4. Electricity, gas & water supply | 912 | 11123 | 12353 | 3094 | 3455 |
| 5. Construction | 5771 | 46282 | 54091 | 10494 | 11032 |
| 6. Trade, hotels & restaurants | 14322 | 113481 | 136854 | 33351 | 38311 |
| 6.1 Trade | 13555 | 107316 | 129068 | 31426 | 35978 |
| 6.2 Hotels & restaurants | 767 | 6165 | 7786 | 1925 | 2333 |
| 7. Transport, storage & communication | 3724 | 50500 | 58365 | 9197 | 10225 |
| 7.1 Railways | 559 | 8072 | 8859 | 943 | 1060 |
| 7.2 Transport by other means | 2438 | 33100 | 38747 | 6587 | 7205 |
| 7.3 Storage | 114 | 612 | 703 | 175 | 177 |
| 7.4 Communication | 613 | 8716 | 10056 | 1492 | 1783 |
| 8. Financing, insurance, real estate & business services | 9264 | 65216 | 72945 | 26875 | 27820 |
| 8.1 Banking & insurance | 3344 | 47951 | 54687 | 16935 | 17477 |
| 8.2 Real estate, ownership of dwellings & business services | 5920 | 17285 | 18258 | 9937 | 10343 |
| 9. Community, social & personal services | 12064 | 89347 | 104572 | 25639 | 27579 |
| 9.1 Public administration & defence | 5307 | 40290 | 47293 | 11539 | 12289 |
| 9.2 Other services | 6777 | 49067 | 57279 | 14400 | 15290 |
| 10. Total net domestic product at factor cost | 110340 | 763698 | 875594 | 227598 | 243617 |

Source: Central Statistical Organisation.

@ Provisional estimate

* quick estimate

Appendix - 2.2
Net State Domestic Product at Factor Cost by Industry of Origine
(At constant Prices) 1980-81 to 1995-96

(Rs. in Lakhs)

| Sl.No. | Industry of Origine | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95* | 1995-96** |
|--------|----------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Agriculture | 129384 | 176135 | 181816 | 182606 | 190354 | 194808 | 201217 |
| 2. | Forestry and Logging | 12382 | 2561 | 3474 | 3375 | 3953 | 4235 | 4749 |
| 3. | Fishing | 7743 | 9380 | 8847 | 9138 | 9222 | 9307 | 9448 |
| 4. | Mining and Quarring | 461 | 1310 | 1290 | 1431 | 1201 | 1315 | 1440 |
| | Sub Total : Primary | 149970 | 189388 | 195427 | 196550 | 204730 | 209665 | 216854 |
| 5. | Manufacturing | 53152 | 79871 | 82442 | 89379 | 92615 | 100451 | 106659 |
| 5.1 | Registered | 29030 | 40710 | 44341 | 46459 | 48920 | 53059 | 56338 |
| 5.2 | Unregistered | 24122 | 39161 | 38101 | 42920 | 43695 | 47392 | 50321 |
| 6. | Electricity, gas and water supply | 5509 | 5736 | 4599 | 8136 | 7648 | 8572 | 9612 |
| 6.1 | Electricity | 5077 | 4261 | 3267 | 6827 | 6111 | 6918 | 7832 |
| 6.2 | Gas | 85 | 934 | 944 | 948 | 701 | 753 | 809 |
| 8.3 | Water supply | 347 | 541 | 388 | 361 | 838 | 901 | 971 |
| 7. | Construction | 34496 | 40270 | 40811 | 43931 | 63314 | 66752 | 70377 |
| | Sub Total : Secondary | 93157 | 125877 | 127852 | 141446 | 163577 | 175775 | 186648 |
| 8. | Transport, Storage and Communication | 13625 | 29491 | 24579 | 43354 | 55215 | 63324 | 72640 |
| 8.1 | Railways | 419 | 873 | 1442 | 1199 | 1139 | 1345 | 1500 |
| 8.2 | Transport by other means & storage | 10770 | 24165 | 28667 | 35833 | 17273 | 53886 | 61424 |
| 8.3 | Communication | 2436 | 4453 | 4470 | 6222 | 6803 | 8093 | 9628 |
| 9. | Trade, Hotel and Restaurants | 57577 | 72386 | 77043 | 79577 | 84281 | 88663 | 93273 |
| 10. | Banking and Insurance | 11428 | 38505 | 36083 | 40324 | 45628 | 58860 | 62697 |
| 11. | Real Estate and Ownership of Dwellings | 12198 | 2813 | 365 | 404 | 439 | 477 | 518 |
| 12. | Public Administration | 15133 | 32501 | 28846 | 32599 | 36836 | 41624 | 47035 |
| 13. | Other Services | 29185 | 35275 | 36271 | 41007 | 47345 | 48494 | 49822 |
| | Sub Total : Tertiary | 139146 | 210971 | 213187 | 237165 | 269744 | 301442 | 325985 |
| | Net State Domestic Product: | 382273 | 526234 | 536466 | 575161 | 638051 | 686882 | 729487 |
| | Population ('000) | 25357 | 28987 | 29378 | 29775 | 30177 | 30584 | 30997 |
| | Per Capita Income (Rs.) | 1508 | 1815 | 1826 | 1932 | 2114 | 2246 | 2353 |

Source: Directorate of Economics & Statistics

* Provisional

** Quick Estimate

Appendix - 2.3

**Net State Domestic Product at Factor Cost by Industry of Origine
(At current Prices) 1980-81 to 1995-96**

(Base year : 1980-81)

(Rs. in Lakhs)

| Sl.No. | Industry of Origine | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-96* | 1995-96** |
|-----------------------------|----------------------------------------|---------|---------|---------|---------|---------|----------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Agriculture | 129384 | 351843 | 527417 | 544163 | 604125 | 647018 | 705638 |
| 2. | Forestry and Logging | 12382 | 8378 | 12446 | 14477 | 23118 | 31905 | 47491 |
| 3. | Fishing | 7743 | 37193 | 50685 | 56049 | 58494 | 62864 | 66586 |
| 4. | Mining and Quarring | 461 | 3189 | 3528 | 4106 | 4712 | 5368 | 8174 |
| Sub Total : Primary | | 149970 | 400601 | 594076 | 618795 | 690449 | 747155 | 825889 |
| 5. | Manufacturing | 53142 | 191390 | 232742 | 266457 | 287878 | 325392 | 364050 |
| 5.1 | Registered | 29030 | 100146 | 124154 | 137984 | 150675 | 168048 | 183205 |
| 5.2 | Unregistered | 24122 | 91244 | 108588 | 127473 | 137203 | 157344 | 178161 |
| 6. | Electricity, gas and water supply | 5509 | 11632 | 12016 | 23424 | 23556 | 24283 | 25148 |
| 6.1 | Electricity | 5077 | 8709 | 9147 | 20275 | 18823 | 18855 | 18887 |
| 6.2 | Gas | 85 | 1383 | 1586 | 1862 | 2158 | 2471 | 2865 |
| 6.3 | Water supply | 347 | 1540 | 1282 | 1287 | 2575 | 2957 | 3398 |
| 7. | Construction | 34496 | 117771 | 12913 | 159965 | 195008 | 224357 | 259469 |
| Sub Total : Secondary | | 93157 | 320793 | 373970 | 448846 | 506442 | 574032 | 648873 |
| 8. | Transport, Storage and Communication | 13165 | 80428 | 87275 | 112323 | 167502 | 195202 | 227979 |
| 8.1 | Railways | 419 | 3310 | 3769 | 5013 | 5161 | 5942 | 6841 |
| 8.2 | Transport by other means & storage | 10770 | 62853 | 67368 | 84210 | 133294 | 151955 | 173229 |
| 8.3 | Communication | 2436 | 14265 | 16138 | 23100 | 29047 | 37305 | 47908 |
| 9. | Trade, Hotel and Restaurants | 57577 | 164734 | 180437 | 230543 | 236068 | 263180 | 293383 |
| 10. | Banking and Insurance | 11428 | 71661 | 76413 | 88841 | 110703 | 131725 | 156739 |
| 11. | Real Estate and Ownership of Dwellings | 12198 | 4353 | 586 | 649 | 824 | 979 | 1163 |
| 12. | Public Administration | 15133 | 89447 | 77716 | 87077 | 106247 | 122513 | 141269 |
| 13. | Other Services | 29185 | 105332 | 119622 | 130446 | 150591 | 167647 | 186854 |
| Sub Total : Tertiary | | 139146 | 495955 | 542119 | 649879 | 771935 | 881246 | 1007387 |
| Net State Domestic Product: | | 382273 | 1217349 | 1510165 | 1717520 | 1968826 | 2202433 | 2481949 |
| Population ('000) | | 25357 | 28987 | 29378 | 29775 | 30177 | 30584 | 30997 |
| Per Capita Income (Rs.) | | 1508 | 4200 | 5140 | 5768 | 6524 | 7201 | 8007 |

Source: Directorate of Economics & Statistics

* Provisional

** Quick Estimate

Appendix - 2.4

Sectoral Distribution of Net Domestic Product of Districts at Factor Cost

(Rs. in Lakhs)

| Districts (1) | Year (2) | At current prices | | | | At constant prices | | | | Total (10) |
|--------------------|------------------|-------------------|------------------|-------------------|------------------|--------------------|------------------|------------------|----------------|---------------|
| | | Primary (3) | Secondary (4) | Tertiary (5) | Total (6) | Primary (7) | Secondary (8) | Tertiary (9) | Total (10) | |
| Thiruvananthapuram | 1980-81 | 12166 (31.79) | 9742 (25.46) | 16360 (42.75) | 38268 (100) | 12168 (31.79) | 9742 (25.46) | 16360 (42.75) | 38288 (100) | |
| | 1990-91 | 31102 (25.10) | 31598 (25.50) | 61190 (49.39) | 123890 (100) | 15166 (28.04) | 12416 (28.96) | 26488 (49.06) | 54070 (100) | |
| | 1991-92 | 43244 (29.51) | 36285 (24.78) | 67029 (45.74) | 146558 (100) | 14839 (28.15) | 12309 (22.67) | 25994 (49.18) | 53142 (100) | |
| | 1992-93 | 46176 (26.83) | 44501 (25.83) | 81465 (47.32) | 172142 (100) | 14494 (25.43) | 13922 (23.61) | 30050 (50.96) | 58988 (100) | |
| | 1993-94 | 50991 (25.44) | 50438 (25.17) | 98980 (49.39) | 200409 (100) | 15408 (23.19) | 16286 (24.48) | 34781 (52.33) | 88435 (100) | |
| | 1994-95 | 54954 (24.33) | 57259 (25.36) | 113611 (50.31) | 225824 (100) | 15773 (21.84) | 17479 (24.21) | 38957 (53.95) | 72209 (100) | |
| | 1995-96 | 60403 (23.61) | 64838 (25.34) | 130589 (51.05) | 25830 (100) | 16303 (21.06) | 18588 (24.02) | 42511 (54.92) | 77400 (100) | |
| | 1980-81 | 19708 (45.57) | 10068 (23.28) | 13471 (31.15) | 43427 (100) | 17880 (39.93) | 10253 (22.92) | 16617 (37.15) | 44730 (100) | |
| | 1990-91 | 39457 (37.84) | 25794 (24.74) | 39030 (37.42) | 104281 (100) | 17880 (39.93) | 10253 (22.92) | 16617 (37.15) | 44730 (100) | |
| | 1991-92 | 45818 (38.61) | 30315 (25.52) | 42619 (35.87) | 118812 (100) | 14962 (35.51) | 10451 (24.81) | 16714 (39.68) | 42127 (100) | |
| 1992-93 | 56219 (39.78) | 36316 (25.70) | 48774 (34.52) | 141309 (100) | 16672 (36.14) | 11600 (25.14) | 17868 (38.72) | 46140 (100) | | |
| 1993-94 | 62273 (38.82) | 40556 (25.28) | 57596 (35.90) | 160425 (100) | 17116 (33.96) | 13099 (26.00) | 20185 (40.04) | 50400 (100) | | |
| Kollam | | | | | | | | | | |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|----------------|---------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|----------------|
| | 1994-95 | 67218 (37.57) | 45825 (25.61) | 65887 (36.82) | 178930 (100) | 17502 (32.85) | 14110 (26.00) | 22665 (41.75) | 54277 (100) |
| | 1995-96 | 73642 (36.69) | 51579 (25.70) | 75477 (37.61) | 200698 (100) | 18066 (31.39) | 14999 (26.06) | 24484 (42.55) | 27549 (100) |
| Pathanamthitta | 1980-81 | 20500 (36.72) | 13157 (23.56) | 22180 (39.72) | 55837 (100) | 10040 (42.83) | 3747 (15.98) | 9654 (41.19) | 23441 (100) |
| | 1990-91 | 20500 (39.31) | 9472 (18.16) | 22180 (42.53) | 52152 (100) | 8581 (39.00) | 3681 (16.76) | 9704 (44.18) | 21966 (100) |
| | 1991-92 | 25695 (42.38) | 10889 (17.91) | 24069 (39.70) | 60623 (100) | 9166 (39.33) | 3925 (16.84) | 10217 (43.83) | 23308 (100) |
| | 1992-93 | 27029 (39.80) | 13449 (19.80) | 27438 (40.40) | 67916 (100) | 8853 (37.97) | 4208 (18.05) | 10256 (43.38) | 23317 (100) |
| | 1993-94 | 30607 (38.59) | 15139 (19.09) | 33575 (42.32) | 79321 (100) | 9115 (35.31) | 4875 (18.89) | 11821 (45.80) | 25811 (100) |
| | 1994-95 | 33884 (37.86) | 17218 (19.24) | 38392 (42.90) | 89494 (100) | 9359 (33.37) | 5237 (18.67) | 13450 (47.96) | 28046 (100) |
| | 1995-96 | 38905 (38.00) | 19531 (19.07) | 43957 (42.93) | 102393 (100) | 9725 (32.56) | 5569 (18.64) | 14575 (48.80) | 29869 (100) |
| Alappuzha | 1980-81 | 10149 (32.94) | 7675 (24.91) | 12985 (42.15) | 30809 (100) | 13310 (36.77) | 8182 (22.60) | 14706 (40.63) | 36198 (100) |
| | 1990-91 | 29963 (35.20) | 20477 (24.08) | 34672 (40.74) | 85112 (100) | 13310 (36.77) | 9543 (22.80) | 14706 (40.63) | 37469 (100) |
| | 1991-92 | 36558 (37.18) | 23816 (24.22) | 37952 (38.60) | 98326 (100) | 10984 (32.77) | 8164 (24.00) | 14881 (43.73) | 34029 (100) |
| | 1992-93 | 32456 (30.15) | 28896 (28.85) | 46276 (43.00) | 107828 (100) | 10017 (27.82) | 9193 (25.53) | 16800 (46.65) | 36010 (100) |
| | 1993-94 | 33047 (27.75) | 32307 (27.13) | 53731 (45.12) | 119085 (100) | 9438 (24.36) | 10405 (26.86) | 18893 (48.78) | 38736 (100) |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|-----|---------|------------------|-------------------|-------------------|-----------------|------------------|------------------|------------------|----------------|
| | 1994-95 | 35429 (26.57) | 36664 (27.50) | 61247 (45.93) | 133340 (100) | 9648 (23.07) | 11204 (26.79) | 20977 (50.14) | 41829 (100) |
| | 1995-96 | 38445 (25.67) | 41437 (27.66) | 69905 (46.67) | 149787 (100) | 9952 (22.37) | 11911 (26.77) | 22624 (50.86) | 44487 (100) |
| | 1980-81 | 10777 (43.75) | 3616 (14.68) | 10240 (41.57) | 24633 (100) | 10777 (43.75) | 3616 (14.88) | 10240 (41.57) | 24633 (100) |
| | 1990-91 | 29147 (39.66) | 8093 (11.01) | 36253 (49.33) | 79493 (100) | 14511 (43.71) | 3321 (10.00) | 15370 (46.29) | 33202 (100) |
| | 1991-92 | 42300 (46.37) | 9255 (10.17) | 39657 (43.47) | 91232 (100) | 42300 (46.37) | 9255 (10.17) | 39657 (43.47) | 91232 (100) |
| | 1992-93 | 42254 (41.29) | 11884 (11.61) | 48214 (47.10) | 102352 (100) | 14096 (39.74) | 3817 (10.76) | 17558 (49.50) | 35471 (100) |
| | 1993-94 | 46732 (40.07) | 13080 (11.21) | 56822 (48.72) | 116634 (100) | 14620 (37.81) | 4206 (10.88) | 19837 (51.31) | 38663 (100) |
| | 1994-95 | 50128 (38.63) | 14746 (11.36) | 64907 (50.01) | 129781 (100) | 14965 (35.88) | 4548 (10.90) | 22201 (53.22) | 41714 (100) |
| | 1995-96 | 54784 (37.62) | 16570 (11.38) | 74254 (51.00) | 145608 (100) | 15464 (34.89) | 4865 (10.98) | 23996 (54.13) | 44325 (100) |
| | 1980-81 | 10506 (54.52) | 5469 (28.38) | 3295 (17.10) | 19270 (100) | 10506 (54.52) | 5469 (28.38) | 3295 (17.10) | 19270 (100) |
| | 1990-91 | 27618 (54.99) | 10848 (21.60) | 117858 (23.41) | 50224 (100) | 13588 (60.34) | 4022 (17.86) | 4907 (21.79) | 22517 (100) |
| | 1991-92 | 41142 (62.15) | 12182 (18.40) | 12876 (19.45) | 66200 (100) | 14031 (60.82) | 4019 (17.42) | 5619 (21.76) | 23069 (100) |
| | 1992-93 | 40587 (57.09) | 15538 (21.86) | 14964 (21.05) | 71089 (100) | 13221 (56.94) | 4612 (19.86) | 5385 (23.20) | 23218 (100) |
| | 1993-94 | 54792 (60.78) | 17960 (919.92) | 17398 (19.30) | 90150 (100) | 17164 (59.16) | 5823 (20.07) | 6025 (20.77) | 29012 (100) |

Kottayam

Idukki

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|-----------|---------|------------------|-------------------|-------------------|-----------------|------------------|------------------|------------------|-----------------|
| | 1994-95 | 58882 (59.47) | 20325 (20.53) | 19810 (20.00) | 99017 (100) | 17573 (57.65) | 6219 (20.40) | 6689 (21.95) | 30481 (100) |
| | 1995-96 | 64570 (58.57) | 23077 (20.93) | 22590 (20.50) | 110237 (100) | 18162 (56.79) | 6614 (20.68) | 7203 (22.53) | 31979 (100) |
| Ernakulam | 1980-81 | 12830 (25.16) | 18385 (36.05) | 19782 (38.79) | 50997 (100) | 12830 (25.16) | 18385 (36.05) | 19782 (38.79) | 50997 (100) |
| | 1990-91 | 40591 (22.25) | 78446 (43.00) | 63412 (34.76) | 182449 (100) | 18704 (24.26) | 30767 (39.90) | 27641 (35.85) | 77112 (100) |
| | 1991-92 | 65934 (28.94) | 93107 (40.87) | 68761 (30.18) | 227802 (100) | 18915 (24.03) | 32152 (40.85) | 27650 (35.13) | 78717 (100) |
| | 1992-93 | 59255 (23.21) | 108695 (42.58) | 87320 (34.21) | 255270 (100) | 17955 (21.00) | 34676 (40.55) | 32885 (38.45) | 85516 (100) |
| | 1993-94 | 67808 (22.85) | 122214 (41.19) | 106710 (35.96) | 298732 (100) | 18458 (19.21) | 39574 (41.19) | 38047 (39.80) | 96079 (100) |
| | 1994-95 | 74603 (22.28) | 137954 (41.19) | 122355 (36.53) | 334912 (100) | 16920 (18.08) | 42579 (40.68) | 43160 (41.24) | 104859 (100) |
| | 1995-96 | 84346 (22.20) | 155127 (40.83) | 140474 (36.97) | 379947 (100) | 19615 (17.57) | 45174 (40.46) | 46874 (41.97) | 111663 (100) |
| Thrissur | 1980-81 | 12263 (34.50) | 9083 (25.55) | 14196 (39.95) | 35544 (100) | 12263 (34.50) | 9083 (25.55) | 14196 (39.95) | 35544 (100) |
| | 1990-91 | 32950 (27.31) | 36312 (30.10) | 51370 (42.58) | 120832 (100) | 15818 (30.59) | 14193 (27.45) | 21692 (41.96) | 51703 (100) |
| | 1991-92 | 47199 (32.36) | 42564 (29.18) | 56080 (38.45) | 145843 (100) | 15505 (29.70) | 14584 (27.94) | 22115 (42.96) | 52204 (100) |
| | 1992-93 | 48915 (29.48) | 50633 (30.52) | 66365 (40.00) | 185913 (100) | 15676 (28.03) | 15974 (28.57) | 24264 (43.40) | 55914 (100) |
| | 1993-94 | 51012 (27.32) | 57153 (30.60) | 78585 (42.08) | 186750 (100) | 15176 (24.85) | 18484 (30.27) | 27411 (44.88) | 61071 (100) |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|-------------------|---------|------------------|------------------|-------------------|-----------------|------------------|------------------|------------------|----------------|
| | 1994-95 | 55320 (26.37) | 64686 (30.84) | 89749 (42.79) | 209765 (100) | 15548 (23.52) | 19860 (30.04) | 30702 (46.44) | 68110 (100) |
| | 1995-96 | 61362 (25.90) | 72995 (30.60) | 102646 (43.30) | 237025 (100) | 18091 (22.87) | 21078 (29.96) | 33175 (47.17) | 70344 (100) |
| Palakkad | 1980-81 | 10758 (40.47) | 6179 (23.25) | 9644 (36.28) | 28561 (100) | 10756 (40.47) | 6179 (23.25) | 9644 (38.28) | 26581 (100) |
| | 1990-91 | 29200 (33.41) | 23572 (28.97) | 34627 (39.62) | 87399 (100) | 14496 (37.81) | 9371 (34.32) | 14672 (38.07) | 38539 (100) |
| | 1991-92 | 53943 (44.71) | 27542 (28.25) | 37940 (32.04) | 116425 (100) | 17925 (42.41) | 9451 (22.36) | 14889 (35.23) | 42285 (100) |
| | 1992-93 | 53046 (40.45) | 33036 (25.20) | 45032 (34.35) | 131114 (100) | 17558 (39.70) | 10500 (23.75) | 16185 (36.55) | 44221 (100) |
| | 1993-94 | 47571 (34.36) | 37010 (26.73) | 53864 (38.91) | 138445 (100) | 14455 (32.10) | 11930 (28.50) | 18644 (41.40) | 45029 (100) |
| | 1994-95 | 52002 (33.45) | 42022 (27.03) | 61456 (39.52) | 155480 (100) | 14825 (30.63) | 12833 (28.51) | 20743 (42.86) | 48401 (100) |
| | 1995-96 | 56548 (33.22) | 47514 (26.95) | 70211 (39.63) | 176273 (100) | 15372 (29.92) | 13629 (26.53) | 22380 (43.55) | 51381 (100) |
| Malappuram | 1960-61 | 11986 (46.16) | 3300 (13.27) | 9590 (36.55) | 24876 (100) | 11986 (48.16) | 3300 (13.27) | 9590 (38.55) | 24676 (100) |
| | 1990-91 | 33699 (42.15) | 11631 (14.55) | 34613 (43.29) | 79943 (100) | 14989 (44.36) | 4373 (12.96) | 14404 (42.68) | 33746 (100) |
| | 1991-92 | 51219 (50.03) | 13167 (12.66) | 37966 (37.11) | 102372 (100) | 17284 (47.36) | 4369 (12.03) | 14821 (40.61) | 36494 (100) |
| | 1992-93 | 53053 (46.27) | 16169 (14.10) | 45434 (39.63) | 114656 (100) | 16619 (44.35) | 4862 (12.82) | 18246 (42.83) | 37927 (100) |
| | 1993-94 | 57973 (44.51) | 16604 (14.44) | 53459 (41.05) | 130236 (100) | 17436 (41.54) | 6062 (14.49) | 18458 (43.97) | 41976 (100) |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|-----------|---------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|----------------|
| | 1994-95 | 62622 (43.24) | 21453 (14.81) | 60757 (41.95) | 144832 (100) | 17860 (39.91) | 6486 (14.49) | 20402 (45.60) | 44748 (100) |
| | 1995-96 | 69069 (42.46) | 24489 (15.05) | 69128 (42.49) | 162686 (100) | 18473 (39.02) | 6874 (14.52) | 21995 (46.46) | 47342 (100) |
| Kozhikode | 1980-81 | 16048 (38.68) | 10915 (26.30) | 14543 (35.04) | 41506 (100) | 16048 (38.66) | 10915 (26.30) | 14543 (35.04) | 41508 (100) |
| | 1990-91 | 27384 (28.58) | 30067 (29.18) | 45573 (44.24) | 103024 (100) | 12695 (28.84) | 11758 (26.81) | 19179 (43.74) | 43852 (100) |
| | 1991-92 | 43043 (33.85) | 34886 (27.26) | 49989 (39.09) | 127898 (100) | 14584 (31.87) | 11857 (25.74) | 19619 (42.59) | 46056 (100) |
| | 1992-93 | 56880 (35.75) | 41894 (26.33) | 60324 (37.92) | 159098 (100) | 17127 (33.00) | 13116 (25.28) | 21853 (41.72) | 51896 (100) |
| | 1993-94 | 55260 (31.98) | 47475 (27.45) | 70187 (40.59) | 172922 (100) | 15753 (28.46) | 15317 (27.67) | 24276 (43.87) | 55346 (100) |
| | 1994-95 | 58456 (80.78) | 53898 (27.98) | 79697 (41.28) | 193151 (100) | 18119 (27.13) | 16437 (27.87) | 28851 (45.20) | 59407 (100) |
| | 1995-96 | 64896 (29.94) | 81233 (28.25) | 90608 (41.81) | 216737 (100) | 16644 (28.42) | 17437 (27.88) | 28910 (45.90) | 62991 (100) |
| Wayanad | 1980-81 | - | - | - | - | - | - | - | - |
| | 1990-91 | 17587 (61.03) | 4182 (14.51) | 7047 (24.56) | 28816 (100) | 8685 (64.86) | 1711 (12.77) | 2995 (22.37) | 13391 (100) |
| | 1991-92 | 21122 (62.62) | 4902 (14.58) | 7705 (22.84) | 33729 (100) | 7223 (60.38) | 1695 (14.17) | 3044 (25.45) | 11962 (100) |
| | 1992-93 | 24047 (61.24) | 5849 (14.90) | 9388 (23.86) | 39264 (100) | 7953 (59.96) | 1896 (14.30) | 3413 (25.74) | 13282 (100) |
| | 1993-94 | 39882 (69.60) | 6475 (11.30) | 10947 (19.10) | 57304 (100) | 12300 (87.50) | 2078 (11.40) | 3845 (21.10) | 18223 (100) |
| | 1994-95 | 43279 (68.54) | 7392 (11.71) | 12471 (19.75) | 63142 (100) | 12604 (65.97) | 2241 (11.73) | 4262 (22.30) | 19107 (100) |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|--------|---------|-------------------|-------------------|--------------------|------------------|-------------------|-------------------|-------------------|-----------------|
| | 1995-96 | 38443 (46.02) | 17540 (21.00) | 27546 (32.98) | 83529 (100) | 10613 (43.88) | 4938 (20.42) | 8634 (35.70) | 24185 (100) |
| Kerala | 1980-81 | 149970 (39.23) | 93157 (24.37) | 139146 (36.40) | 382273 (100) | 149970 (39.23) | 93157 (24.37) | 139146 (36.40) | 382273 (100) |
| | 1990-91 | 400601 (32.91) | 320793 (26.35) | 495955 (40.74) | 1217349 (100) | 189386 (35.99) | 125877 (23.92) | 210971 (40.09) | 526234 (100) |
| | 1991-92 | 594076 (39.34) | 373970 (24.76) | 542119 (35.90) | 1510165 (100) | 195427 (36.43) | 127852 (23.83) | 213187 (39.74) | 536466 (100) |
| | 1992-93 | 618795 (36.03) | 448846 (26.13) | 649879 (37.84) | 1717520 (100) | 196550 (34.17) | 141446 (24.59) | 237165 (41.24) | 575161 (100) |
| | 1993-94 | 690449 (35.07) | 506442 (25.72) | 771915 (39.21) | 1968826 (100) | 204730 (32.08) | 163577 (25.84) | 269744 (42.28) | 638051 (100) |
| | 1994-95 | 747155 (33.93) | 574032 (26.06) | 881246 (40.01) | 2202433 (100) | 209665 (30.52) | 175775 (25.59) | 301442 (43.89) | 686882 (100) |
| | 1995-96 | 825889 (33.28) | 648673 (28.14) | 1007387 (40.58) | 2481949 (100) | 216854 (29.72) | 186648 (25.59) | 325985 (44.69) | 729487 (100) |

Source - Directorate of Economics and Statistics

Appendix - 2.5

District wise Distribution of State Income at Constant (1980-81) and 1955-96 Prices

| (1) | 1980-81 | | | | 1955-96 | | | | Population ('000s) | |
|--------------------|------------------|------------------|------------------|------------------|-----------------|------------------|------------------|-------------------|--------------------|-----------------|
| | Primary | Secondary | Tertiary | Total | Primary | Secondary | Tertiary | Total | 1980-81 | 1955-96 |
| | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Thiruvananthapuram | 12166 (8.11) | 9742 (10.46) | 16360 (11.76) | 38268 (10.01) | 16303 (7.52) | 18586 (9.96) | 42511 (13.04) | 77400 (10.61) | 2579 (10.17) | 3140 (10.13) |
| Kollam | 19708 (13.14) | 10068 (10.81) | 13471 (9.68) | 43247 (11.31) | 18066 (8.33) | 14999 (8.04) | 24484 (7.50) | 57549 (7.89) | 2875 (11.34) | 2563 (8.27) |
| Pathanamthitta | - | - | - | - | 9725 (4.48) | 5569 (2.98) | 14575 (4.47) | 29869 (4.09) | - | 1265 (4.08) |
| Alappuzha | 10149 (6.77) | 7675 (8.24) | 12985 (9.33) | 30909 (8.06) | 9952 (4.59) | 11911 (6.38) | 22624 (6.94) | 44487 (6.10) | 2350 (9.28) | 2132 (6.88) |
| Kottayam | 10777 (7.19) | 3616 (3.88) | 10240 (7.36) | 24663 (6.44) | 15464 (7.13) | 4865 (2.61) | 23996 (7.36) | 44325 (6.08) | 1696 (6.69) | 1947 (6.28) |
| Idukki | 10506 (7.00) | 5469 (5.87) | 3295 (2.37) | 19270 (5.04) | 18162 (8.38) | 6614 (3.54) | 7203 (2.20) | 31975 (4.38) | 966 (3.81) | 1150 (3.71) |
| Ernakulam | 12830 (8.56) | 18385 (19.74) | 19782 (14.22) | 50997 (13.34) | 19615 (9.05) | 45174 (24.20) | 46874 (14.38) | 111663 (15.32) | 2528 (9.97) | 3000 (9.68) |
| Thrussur | 12263 (8.18) | 9083 (9.75) | 14198 (10.20) | 35544 (9.30) | 16091 (7.42) | 21078 (11.29) | 33175 (10.18) | 70344 (9.64) | 2432 (9.59) | 2917 (9.41) |
| Palakkad | 10758 (7.17) | 6179 (6.63) | 9644 (6.93) | 26581 (6.95) | 15372 (7.09) | 13629 (7.30) | 22380 (6.87) | 51381 (7.04) | 2034 (8.02) | 2539 (8.19) |
| Malappuram | 11986 (7.99) | 3300 (3.54) | 9590 (6.89) | 24876 (6.51) | 18473 (8.52) | 6874 (3.68) | 21995 (6.75) | 47342 (6.49) | 2381 (9.39) | 3298 (10.64) |
| Kozhikode | 16048 (10.70) | 10915 (11.72) | 14543 (10.45) | 41506 (10.86) | 16644 (7.68) | 17437 (9.34) | 28910 (8.88) | 62991 (8.63) | 2614 (10.31) | 2790 (9.00) |
| Wayanad | - | - | - | - | 13049 (6.02) | 2377 (1.27) | 4597 (1.41) | 20023 (2.74) | - | 717 (2.31) |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
|------------------------|---------|--------|---------|---------|--------|--------|--------|--------|---------|--------|
| Kannur | 22779 | 8725 | 15038 | 46542 | 19325 | 12597 | 24027 | 55949 | 2932 | 2398 |
| | (15.19) | (9.37) | (10.81) | (12.18) | (8.91) | (6.75) | (7.37) | (7.67) | (11.68) | (7.74) |
| Kasaragode | - | - | - | - | 10613 | 4938 | 8634 | 24185 | - | 1141 |
| | | | | | (4.89) | (2.65) | (2.65) | (3.32) | - | (3.68) |
| State Domestic Product | 149970 | 93157 | 139146 | 382273 | 216814 | 186648 | 325985 | 729487 | 25357 | 30997 |
| | (100) | (100) | (100) | (100) | (100) | (100) | (100) | (100) | (100) | (100) |

Figures in bracket show percentage to State total

Appendix - 2.6

Distribution of Work Seekers in Kerala by Educational Level

| Year at the end of December | Total work Seekers | Below S.S.L.C. | S.S.L.C. | Pre-Degree | Graduates | Post Graduates | S.S.L.C. and above No. | Percent |
|-----------------------------|--------------------|----------------|-----------|------------|-----------|----------------|------------------------|---------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1985 | 25,74,074 | 12,08,724 | 11,16,495 | 1,48,464 | 90,329 | 10,062 | 13,65,330 | 53.05 |
| 1986 | 27,04,874 | 12,09,462 | 12,51,793 | 1,36,193 | 97,217 | 10,209 | 14,95,412 | 55.30 |
| 1987 | 29,91,002 | 12,70,764 | 14,34,413 | 1,61,155 | 1,11,008 | 13,682 | 17,20,258 | 57.50 |
| 1988 | 29,01,051 | 11,85,145 | 14,38,051 | 1,60,233 | 1,00,330 | 17,292 | 17,15,906 | 59.10 |
| 1989 | 30,92,031 | 12,04,737 | 15,65,709 | 1,88,978 | 1,11,372 | 21,235 | 18,87,294 | 61.04 |
| 1990 | 33,20,35 | 12,27,319 | 16,55,465 | 2,73,725 | 1,35,213 | 28,313 | 20,92,716 | 63.03 |
| 1991 | 36,38,804 | 13,18,514 | 18,85,304 | 2,57,173 | 1,50,014 | 27,799 | 23,20,290 | 83.76 |
| 1992 | 38,47,063 | 13,45,260 | 20,27,657 | 2,83,556 | 1,61,571 | 29,109 | 25,01,803 | 65.00 |
| 1993 | 41,56,892 | 14,12,925 | 22,10,314 | 3,17,719 | 1,81,605 | 34,329 | 27,43,967 | 66.00 |
| 1994 | 41,68,669 | 13,77,759 | 22,38,232 | 3,25,760 | 1,90,261 | 36,675 | 27,90,910 | 67.00 |
| 1995 | 32,26,305 | 9,28,954 | 18,57,110 | 2,60,505 | 1,54,207 | 25,529 | 22,97,351 | 71.00 |
| 1996 | 72,98,581 | 8,26,145 | 19,98,906 | 2,85,353 | 1,57,133 | 31,044 | 24,72,436 | 75.00 |

(as on 31-8-1996)

Source : Directorate of Employment and Training

Appendix - 2.7

Number of Professional and Technical Work Seekers

| Year | Medical Graduates | Engineering Graduates | Diploma Holders in Engineering and Technical | I.T.I. Certificate Holders | Agricultural Graduates | Veterinary Graduates | Total |
|---------------------------|-------------------|-----------------------|----------------------------------------------|----------------------------|------------------------|----------------------|----------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1985 | 1143 | 2917 | 11,257 | 53,237 | 149 | 25 | 68,728 |
| 1986 | 1270 | 3805 | 14,812 | 59,225 | 209 | 14 | 79,335 |
| 1987 | 1728 | 4916 | 17,062 | 63,056 | 177 | 72 | 87,011 |
| 1988 | 1334 | 4380 | 16,776 | 64,629 | 324 | 49 | 87,482 |
| 1989 | 1481 | 5649 | 19,273 | 70,971 | 446 | 26 | 97,846 |
| 1990 | 1806 | 8507 | 20,154 | 87,069 | 368 | 128 | 1,16,032 |
| 1991 | 2588 | 7762 | 22,339 | 75,898 | 363 | 13 | 1,09,023 |
| 1992 | 3123 | 9286 | 25,810 | 89,616 | 219 | 83 | 1,28,137 |
| 1993 | 3318 | 9549 | 34,880 | 87,962 | 451 | 110 | 1,36,070 |
| 1994 | 3494 | 10420 | 30,720 | 80,757 | 4001 | 214 | 1,29,606 |
| 1995 | 1974 | 7553 | 26,403 | 82,030 | 1305 | 148 | 1,19,413 |
| 1996 (as on 31-8-1996) | 1992 | 7184 | 27,683 | 92,015 | 1273 | 91 | 1,30,238 |

Source: Directorate of Employment and Training

Appendix 2.8
Employment in the Public and Private Sector in Kerala

| Year at the end of December | Public Sector | Index | Private Sector | Index | Total | Index |
|-----------------------------|---------------|-------|----------------|-------|-----------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1985 | 5,68,713 | 101 | 5,07,375 | 99 | 10,76,008 | 100 |
| 1986 | 5,76,784 | 102 | 5,19,115 | 102 | 10,95,899 | 102 |
| 1987 | 5,85,391 | 104 | 5,08,917 | 100 | 10,94,308 | 102 |
| 1988 | 6,02,696 | 107 | 5,01,653 | 98 | 11,04,349 | 103 |
| 1989 | 6,20,254 | 110 | 4,86,354 | 95 | 11,06,608 | 103 |
| 1990 | 6,34,379 | 113 | 5,12,034 | 100 | 11,46,413 | 107 |
| 1991 | 6,45,856 | 115 | 5,25,882 | 103 | 11,71,738 | 109 |
| 1992 | 6,47,853 | 103 | 5,32,837 | 101 | 11,80,690 | 100 |
| 1993 | 6,49,199 | 100 | 5,36,480 | 102 | 11,85,679 | 101 |
| 1994 | 6,43,615 | 99 | 5,40,472 | 102 | 11,84,087 | 100 |
| 1995 | 6,20,422 | 95 | 5,33,986 | 105 | 11,74,408 | 100 |
| 1996 | 6,20,068 | 95 | 5,52,474 | 105 | 11,72,542 | 99 |

Source: Directorate of Employment and Training

Appendix 2.9
Country-wise Deployment of personnel by ODEPC

| Country | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--------------|------|------|------|------|------|------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Kuwait | 7 | 3 | - | - | - | - |
| Muscot | 1 | - | - | - | - | - |
| Malayasia | 1 | - | - | - | - | - |
| Qatar | - | 1 | 2 | 3 | - | - |
| Singapore | 36 | - | - | - | - | - |
| Saudi Arabia | 291 | 106 | 76 | 69 | 98 | 129 |
| U.E.A. | - | 1 | 12 | 7 | 13 | 52 |
| Bahrain | - | 2 | - | 7 | - | - |
| Cyprus | .. | 1 | .. | .. | .. | .. |
| Yemen | .. | .. | 1 | .. | 1 | .. |
| Total : | 336 | 114 | 91 | 86 | 112 | 181 |

Source : ODEPC

Appendix 2.10
Unemployment Assistance Scheme

| Year | Applications Received | No. of Beneficiaries | Amount Disbursed (Rs. in lakhs) |
|---------|-----------------------|----------------------|---------------------------------|
| 1 | 2 | 3 | 4 |
| 1985-86 | 48,715 | 1,79,146 | 1012.08 |
| 1986-87 | 1,13,809 | 2,18,446 | 835.00 |
| 1987-88 | 92,555 | 2,05,556 | 1095.65 |
| 1988-89 | 64,887 | 2,15,456 | 2353.77 |
| 1989-90 | 81,159 | 2,46,040 | 1996.37 |
| 1990-91 | 1,18,279 | 2,64,314 | 1934.88 |
| 1991-92 | 99,814 | 2,60,196 | 1919.64 |
| 1992-93 | .. | 2,29,143 | 625.67 |
| 1993-94 | 1,21,376 | 2,73,512 | 1748.65 |
| 1994-95 | 67,602 | 2,81,424 | 2137.00 |
| 1995-96 | .. | 2,72,371 | 2649.00 |
| 1996-97 | .. | 2,50,524 | 519.00 |

(as on 30-11-1996)

Source : Directorate of Employment and Training.

Appendix 2.11
Area and Density of Population - 1991 (Area Sq. Kms; Density-No. of persons/ Sq.Km.)

| District | Total | Area Rural | Urban | Total | Density Rural | Urban |
|------------------|-------|------------|---------|-------|---------------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Kasargod | 1992 | 1887.22 | 104.78 | 538 | 474 | 1682 |
| Kannur | 2966 | 2318.86 | 647.14 | 759 | 477 | 1770 |
| Wayanad | 2131 | 2096.86 | 34.14 | 315 | 310 | 672 |
| Kozhikode | 2344 | 2004.33 | 339.67 | 1118 | 806 | 2957 |
| Malappuram | 3550 | 3378.48 | 170.52 | 872 | 833 | 1656 |
| Palakkad | 4480 | 4258.15 | 221.85 | 532 | 471 | 1688 |
| Trissur | 3032 | 2730.80 | 301.20 | 903 | 739 | 2391 |
| Ernakulam | 2407 | 1865.38 | 541.62 | 1170 | 774 | 2535 |
| Idukki | 5019 | 4951.57 | 67.43 | 215 | 207 | 755 |
| Kottayam | 2203 | 2034.43 | 168.57 | 830 | 741 | 1904 |
| Alappuzha | 1414 | 1125.92 | 288.08 | 1415 | 1236 | 2116 |
| Pathanamthitta | 2642 | 2541.72 | 100.28 | 450 | 407 | 1546 |
| Kollam | 2491 | 2372.56 | 118.44 | 967 | 827 | 3766 |
| Thiruvanthapuram | 2192 | 1934.51 | 257.49 | 1344 | 1007 | 3877 |
| Kerala | 38863 | 35500.79 | 3362.21 | 749 | 603 | 2284 |

Appendix 2.12
Rural - Urban Distribution of Population

| District | (in lakhs) | | | | | | | | | | | | | | | |
|--------------------|------------|---|--------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|
| | Persons | | | | | Male | | | | | Female | | | | | |
| | Total | 2 | 3 | 4 | 5 | Total | Rural | Urban | 6 | 7 | 8 | Total | Rural | Urban | 9 | 10 |
| 1 | | | | | | | | | | | | | | | | |
| Kasargod | 10.72 | | 8.95 | 1.76 | 5.29 | 4.43 | 0.86 | 5.43 | 4.43 | 0.86 | 5.43 | 4.43 | 0.86 | 5.43 | 4.43 | 0.90 |
| Kannur | 22.52 | | 11.06 | 11.45 | 10.99 | 5.46 | 5.53 | 11.53 | 5.46 | 5.53 | 11.53 | 5.46 | 5.53 | 11.53 | 5.46 | 5.92 |
| Wayanad | 6.72 | | 6.49 | 0.23 | 3.42 | 3.30 | 0.12 | 3.30 | 3.30 | 0.12 | 3.30 | 3.30 | 0.12 | 3.30 | 3.19 | 0.11 |
| Kozhikode | 26.20 | | 16.15 | 10.04 | 12.93 | 7.96 | 4.96 | 13.27 | 7.96 | 4.96 | 13.27 | 7.96 | 4.96 | 13.27 | 8.19 | 5.08 |
| Malappuram | 30.96 | | 28.14 | 2.82 | 15.08 | 13.69 | 1.39 | 15.88 | 13.69 | 1.39 | 15.88 | 13.69 | 1.39 | 15.88 | 14.44 | 1.44 |
| Palakkad | 23.82 | | 20.08 | 3.75 | 11.56 | 9.73 | 1.83 | 12.26 | 9.73 | 1.83 | 12.26 | 9.73 | 1.83 | 12.26 | 10.35 | 1.92 |
| Trissur | 27.37 | | 20.17 | 7.20 | 13.13 | 9.65 | 3.48 | 14.25 | 9.65 | 3.48 | 14.25 | 9.65 | 3.48 | 14.25 | 10.53 | 3.72 |
| Ernakulam | 28.17 | | 14.44 | 13.73 | 14.09 | 7.23 | 6.86 | 14.09 | 7.23 | 6.86 | 14.09 | 7.23 | 6.86 | 14.09 | 7.21 | 6.87 |
| Idukki | 10.78 | | 10.27 | 0.51 | 5.46 | 5.20 | 0.26 | 5.32 | 5.20 | 0.26 | 5.32 | 5.07 | 0.25 | 5.07 | 5.07 | 0.25 |
| Kottayam | 18.28 | | 15.07 | 3.21 | 9.13 | 7.52 | 1.61 | 9.15 | 7.52 | 1.61 | 9.15 | 7.55 | 1.60 | 7.55 | 7.55 | 1.60 |
| Alappuzha | 20.01 | | 13.92 | 6.10 | 9.76 | 6.77 | 2.99 | 10.25 | 6.77 | 2.99 | 10.25 | 7.14 | 3.11 | 7.14 | 3.11 | 3.11 |
| Pathanamthitta | 11.88 | | 10.33 | 1.55 | 5.76 | 5.01 | 0.75 | 6.12 | 5.01 | 0.75 | 6.12 | 5.32 | 0.80 | 5.32 | 5.32 | 0.80 |
| Kollam | 24.08 | | 19.62 | 4.46 | 11.83 | 9.62 | 2.21 | 12.25 | 9.62 | 2.21 | 12.25 | 9.99 | 2.25 | 9.99 | 9.99 | 2.25 |
| Thiruvananthapuram | 29.47 | | 19.48 | 9.98 | 14.48 | 9.55 | 4.92 | 14.99 | 9.55 | 4.92 | 14.99 | 9.93 | 5.06 | 9.93 | 9.93 | 5.06 |
| Kerala | 290.99 | | 214.18 | 76.80 | 142.89 | 105.13 | 37.76 | 148.10 | 105.13 | 37.76 | 148.10 | 109.05 | 39.04 | 109.05 | 109.05 | 39.04 |

Appendix - 2.13
 Three Year Moving Average of Birth and Death rates
 Kerala and India 1981-1993

| Period | Kerala | | | | | | | | | | | | India | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--------|-----|-----|-------|-----|-----|-------|-----|-----|-------|------|------|-------|------|-------|------|-----|-----|------|-----|-----|------|-----|-----|------|------|------|------|------|------|------|-----|-----|------|-----|-----|------|-----|-----|------|------|------|------|------|------|------|-----|-----|
| | Total | | | Rural | | | Urban | | | Total | | | Rural | | Urban | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BR | DR | 3 | BR | DR | 4 | BR | DR | 5 | BR | DR | 6 | BR | DR | 7 | BR | DR | 8 | BR | DR | 9 | BR | DR | 10 | BR | DR | 11 | BR | DR | 12 | BR | DR | 13 | | | | | | | | | | | | | | | |
| 1981-83 | 25.6 | 6.6 | 6.6 | 25.8 | 6.7 | 6.7 | 24.5 | 6.4 | 6.4 | 33.8 | 12.1 | 12.1 | 35.4 | 13.6 | 13.6 | 27.8 | 7.7 | 7.7 | 25.6 | 6.6 | 6.6 | 24.5 | 6.4 | 6.4 | 33.8 | 12.1 | 12.1 | 35.4 | 13.6 | 13.6 | 27.8 | 7.7 | 7.7 | 25.6 | 6.6 | 6.6 | 24.5 | 6.4 | 6.4 | 33.8 | 12.1 | 12.1 | 35.4 | 13.6 | 13.6 | 27.8 | 7.7 | 7.7 |
| 1982-84 | 24.7 | 6.8 | 6.8 | 24.7 | 6.5 | 6.5 | 24.7 | 6.9 | 6.9 | 33.8 | 12.1 | 12.1 | 35.3 | 13.3 | 13.3 | 28.6 | 8.0 | 8.0 | 24.7 | 6.5 | 6.5 | 24.4 | 6.9 | 6.9 | 33.6 | 12.1 | 12.1 | 35.0 | 13.3 | 13.3 | 28.6 | 8.1 | 8.1 | 24.7 | 6.5 | 6.5 | 24.4 | 6.9 | 6.9 | 33.6 | 12.1 | 12.1 | 35.0 | 13.3 | 13.3 | 28.6 | 8.1 | 8.1 |
| 1983-85 | 23.7 | 6.5 | 6.5 | 23.6 | 6.5 | 6.5 | 24.4 | 6.9 | 6.9 | 33.6 | 12.1 | 12.1 | 35.0 | 13.3 | 13.3 | 28.6 | 8.1 | 8.1 | 23.7 | 6.2 | 6.2 | 23.7 | 6.9 | 6.9 | 32.2 | 11.8 | 11.8 | 34.6 | 13.0 | 13.0 | 28.2 | 8.0 | 8.0 | 23.7 | 6.2 | 6.2 | 23.7 | 6.9 | 6.9 | 32.2 | 11.8 | 11.8 | 34.6 | 13.0 | 13.0 | 28.2 | 8.0 | 8.0 |
| 1984-86 | 22.9 | 6.3 | 6.3 | 22.7 | 6.2 | 6.2 | 23.7 | 6.9 | 6.9 | 32.2 | 11.8 | 11.8 | 34.6 | 13.0 | 13.0 | 28.2 | 8.0 | 8.0 | 22.9 | 6.3 | 6.3 | 23.7 | 6.9 | 6.9 | 32.2 | 11.8 | 11.8 | 34.6 | 13.0 | 13.0 | 28.2 | 8.0 | 8.0 | 22.9 | 6.3 | 6.3 | 23.7 | 6.9 | 6.9 | 32.2 | 11.8 | 11.8 | 34.6 | 13.0 | 13.0 | 28.2 | 8.0 | 8.0 |
| 1985-87 | 21.5 | 8.2 | 8.2 | 22.3 | 8.2 | 8.2 | 23.1 | 6.6 | 6.6 | 32.6 | 11.3 | 11.3 | 34.1 | 12.4 | 12.4 | 27.5 | 7.6 | 7.6 | 21.5 | 8.2 | 8.2 | 23.1 | 6.6 | 6.6 | 32.6 | 11.3 | 11.3 | 34.1 | 12.4 | 12.4 | 27.5 | 7.6 | 7.6 | 21.5 | 8.2 | 8.2 | 23.1 | 6.6 | 6.6 | 32.6 | 11.3 | 11.3 | 34.1 | 12.4 | 12.4 | 27.5 | 7.6 | 7.6 |
| 1986-88 | 22.5 | 8.2 | 8.2 | 21.3 | 6.1 | 6.1 | 22.3 | 6.6 | 6.6 | 32.1 | 11.0 | 11.0 | 33.6 | 12.0 | 12.0 | 26.9 | 7.6 | 7.6 | 22.5 | 8.2 | 8.2 | 22.3 | 6.6 | 6.6 | 32.1 | 11.0 | 11.0 | 33.6 | 12.0 | 12.0 | 26.9 | 7.6 | 7.6 | 22.5 | 8.2 | 8.2 | 22.3 | 6.6 | 6.6 | 32.1 | 11.0 | 11.0 | 33.6 | 12.0 | 12.0 | 26.9 | 7.6 | 7.6 |
| 1987-89 | 20.7 | 6.2 | 6.2 | 20.6 | 6.1 | 6.1 | 21.4 | 8.4 | 8.4 | 31.5 | 10.7 | 10.7 | 33.0 | 11.7 | 11.7 | 28.3 | 7.4 | 7.4 | 20.7 | 6.2 | 6.2 | 21.4 | 8.4 | 8.4 | 31.5 | 10.7 | 10.7 | 33.0 | 11.7 | 11.7 | 28.3 | 7.4 | 7.4 | 20.7 | 6.2 | 6.2 | 21.4 | 8.4 | 8.4 | 31.5 | 10.7 | 10.7 | 33.0 | 11.7 | 11.7 | 28.3 | 7.4 | 7.4 |
| 1988-90 | 20.0 | 8.1 | 8.1 | 19.9 | 6.1 | 6.1 | 20.6 | 6.3 | 6.3 | 30.8 | 10.3 | 10.3 | 32.3 | 11.2 | 11.2 | 25.4 | 7.2 | 7.2 | 20.0 | 8.1 | 8.1 | 20.6 | 6.3 | 6.3 | 30.8 | 10.3 | 10.3 | 32.3 | 11.2 | 11.2 | 25.4 | 7.2 | 7.2 | 20.0 | 8.1 | 8.1 | 20.6 | 6.3 | 6.3 | 30.8 | 10.3 | 10.3 | 32.3 | 11.2 | 11.2 | 25.4 | 7.2 | 7.2 |
| 1989-91 | 19.4 | 8.0 | 8.0 | 19.4 | 6.1 | 6.1 | 19.5 | 5.8 | 5.8 | 30.1 | 9.9 | 9.9 | 31.6 | 10.7 | 10.7 | 24.7 | 7.1 | 7.1 | 19.4 | 8.0 | 8.0 | 19.5 | 5.8 | 5.8 | 30.1 | 9.9 | 9.9 | 31.6 | 10.7 | 10.7 | 24.7 | 7.1 | 7.1 | 19.4 | 8.0 | 8.0 | 19.5 | 5.8 | 5.8 | 30.1 | 9.9 | 9.9 | 31.6 | 10.7 | 10.7 | 24.7 | 7.1 | 7.1 |
| 1990-92 | 18.8 | 8.1 | 8.1 | 18.5 | 6.1 | 6.1 | 18.7 | 5.9 | 5.9 | 29.6 | 9.9 | 9.9 | 31.1 | 10.7 | 10.7 | 24.0 | 7.0 | 7.0 | 18.8 | 8.1 | 8.1 | 18.7 | 5.9 | 5.9 | 29.6 | 9.9 | 9.9 | 31.1 | 10.7 | 10.7 | 24.0 | 7.0 | 7.0 | 18.8 | 8.1 | 8.1 | 18.7 | 5.9 | 5.9 | 29.6 | 9.9 | 9.9 | 31.1 | 10.7 | 10.7 | 24.0 | 7.0 | 7.0 |
| 1991-93 | 17.8 | 8.1 | 8.1 | 1.8 | 6.2 | 6.2 | 17.8 | 5.9 | 5.9 | 29.1 | 9.7 | 9.7 | 30.7 | 10.7 | 10.7 | 23.7 | 6.6 | 6.6 | 17.8 | 8.1 | 8.1 | 17.8 | 5.9 | 5.9 | 29.1 | 9.7 | 9.7 | 30.7 | 10.7 | 10.7 | 23.7 | 6.6 | 6.6 | 17.8 | 8.1 | 8.1 | 17.8 | 5.9 | 5.9 | 29.1 | 9.7 | 9.7 | 30.7 | 10.7 | 10.7 | 23.7 | 6.6 | 6.6 |

Source :- Sample Registration Bulletin

Appendix -2.14
 Three year moving average of Infant Mortality Rates Kerala and India
 1981-1993

| Period | (per Mille) | | | | | | |
|---------|-------------|-------|-------|-------|-------|-------|--|
| | Kerala | | | | India | | |
| | Total | Rural | Urban | Total | Rural | Urban | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 1981-83 | 34 | 35 | 25 | 107 | 116 | 65 | |
| 1982-84 | 31 | 32 | 28 | 105 | 114 | 66 | |
| 1983-85 | 31 | 32 | 28 | 102 | 111 | 64 | |
| 1984-86 | 29 | 30 | 26 | 99 | 108 | 62 | |
| 1985-87 | 29 | 30 | 25 | 96 | 105 | 80 | |
| 1986-88 | 28 | 29 | 22 | 94 | 104 | 81 | |
| 1987-89 | 26 | 27 | 21 | 93 | 102 | 60 | |
| 1988-90 | 22 | 23 | 17 | 88 | 90 | 57 | |
| 1989-91 | 18 | 19 | 15 | 84 | 90 | 54 | |
| 1990-92 | 17 | 17 | 15 | 60 | 66 | 52 | |
| 1991-93 | 15 | 16 | 12 | 78 | 85 | 50 | |

Source - Sample Registration Bulletin -1994

Appendix -2.15
**Estimated Annual Live Birth Rates, Death Rates and Infant Mortality Rate
for Major States-1993.**

| States | Birth Rate | | | | | | Death Rate | | | Infant Mortality Rate (per Provisionel) | | | |
|------------------|------------|------|-------|-------|----------|-------|------------|----------|-------|--------------------------------------------|----------|-------|-------|
| | Combined | | Rural | Urban | Combined | Rural | Urban | Combined | Rural | Urban | Combined | Rural | Urban |
| | | | | | | | | | | | | | |
| India | 28.7 | 30.4 | 23.7 | 9.3 | 10.8 | 5.8 | 74 | 82 | 45 | | | | |
| Andhrapradesh | 24.3 | 24.6 | 23.5 | 8.6 | 9.7 | 5.6 | 64 | 70 | 46 | | | | |
| Assam | 29.5 | 30.4 | 23.8 | 10.2 | 10.7 | 6.7 | 81 | 84 | 60 | | | | |
| Bihar | 32.0 | 30.0 | 25.4 | 10.6 | 11.4 | 5.0 | 70 | 73 | 41 | | | | |
| Gujarath | 26.0 | 29.1 | 25.8 | 8.2 | 8.9 | 6.8 | 58 | 65 | 42 | | | | |
| Haryana | 30.9 | 32.4 | 28.5 | 7.9 | 8.8 | 5.6 | 66 | 70 | 53 | | | | |
| Himachal Pradesh | .. | .. | .. | .. | .. | .. | .. | .. | .. | | | | |
| Karnataka | 25.5 | 26.7 | 23.1 | 8.0 | 9.5 | 5.2 | 87 | 79 | 42 | | | | |
| Kerala | 17.4 | 17.5 | 17.3 | 6.0 | 6.0 | 5.6 | 13 | 15 | 8 | | | | |
| Madhya Pradesh | 34.9 | 35.9 | 24.6 | 12.8 | 13.9 | 7.6 | 106 | 113 | 67 | | | | |
| Maharashtra | 25.2 | 24.1 | 22.8 | 7.3 | 9.3 | 4.8 | 50 | 63 | 32 | | | | |
| Orissa | 27.2 | 27.6 | 23.2 | 12.2 | 13.1 | 5.8 | 110 | 115 | 69 | | | | |
| Punjab | 28.3 | 27.7 | 22.6 | 7.9 | 8.8 | 5.5 | 55 | 60 | 39 | | | | |
| Rajasthan | 34.0 | 35.5 | 28.0 | 9.1 | 10.1 | 5.2 | 82 | 88 | 54 | | | | |
| Tamil Nadu | 19.5 | 19.7 | 19.1 | 8.2 | 9.4 | 5.8 | 56 | 66 | 36 | | | | |
| Uttarpradesh | 36.2 | 37.2 | 31.1 | 11.6 | 12.3 | 8.0 | 94 | 98 | 67 | | | | |
| West Bengal | 25.7 | 28.6 | 16.2 | 7.4 | 6.5 | 4.4 | 58 | 64 | 33 | | | | |

Source :- Sample registration Bullfin - 1994

Appendix - 3.1

Wholesale Price Index Of Agricultural Commodities - Kerala 1996

(Base:1952-53=100)

| Sl.No. | Crops | January | February | March | April | May | June | July | August | September | October | November | December | Average* |
|--------|-----------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|----------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
| 1. | Rice | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | 1161.9 | NA | 1161.9 |
| 2. | Molasses | 1491.5 | 1469.8 | 1423.3 | 1517.7 | 1808.2 | 2054.4 | 1955.8 | 2107.5 | 2171.0 | 2268.4 | 2337.8 | " | 1873.2 |
| 3. | Condiments and spices | 1684.0 | 1845.1 | 2047.4 | 2248.5 | 2846.4 | 3220.3 | 3038.4 | 2369.3 | 2110.5 | 2053.0 | 2093.2 | " | 2323.3 |
| 4. | Fruits and Vegetables | 3424.6 | 3445.9 | 3268.6 | 2736.1 | 3157.0 | 3380.0 | 3319.0 | 3369.8 | 3346.9 | 3311.7 | 3340.9 | " | 3281.9 |
| 5. | Food Crops | 1639.9 | 1669.1 | 1670.6 | 1616.4 | 1794.3 | 1900.0 | 1857.7 | 1762.1 | 1718.0 | 1705.9 | 1719.6 | " | 1732.2 |
| 6. | Oil Seeds | 2380.1 | 2493.7 | 2483.4 | 2375.7 | 2331.7 | 2308.6 | 2252.0 | 2344.2 | 2508.0 | 2788.8 | 3012.6 | " | 2479.9 |
| 7. | Plantation crops | 1630.7 | 1643.7 | 1614.6 | 1589.0 | 1561.0 | 1554.3 | 1545.5 | 1548.9 | 1559.5 | 1548.2 | 1515.1 | " | 1573.7 |
| 8. | Non-food crops | 2153.8 | 2237.0 | 2221.0 | 2138.1 | 2099.0 | 2080.8 | 2038.6 | 2104.0 | 2221.6 | 2414.1 | 2560.4 | " | 2206.2 |
| 9. | All crops | 1827.5 | 1876.4 | 1871.5 | 1806.8 | 1905.5 | 1966.5 | 1923.7 | 1886.9 | 1901.8 | 1964.4 | 2026.5 | " | 1905.2 |

Source: Department of Economics and Statistics, Govt. of Kerala

* Average from January to November (11 months) only

Appendix - 3.2

Month-end Average Retail Prices Of Essential Commodities 1996

(Rupees)

| Sl.No | Name of Commodity | Unit | January | February | March | April | May | June | July | August | September | October | November | December |
|-------------------------|-------------------------------------------|-------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
| Cereals | | | | | | | | | | | | | | |
| 1. | Rice Matta (OM) | Kg. | 10.09 | 10.65 | 10.45 | 10.52 | 10.74 | 10.90 | 11.41 | 11.48 | 11.39 | 11.25 | 11.54 | 11.72 |
| 2. | Rice Chamba (OM) | " | 10.16 | 10.59 | 10.40 | 10.74 | 10.59 | 10.62 | 11.05 | 11.10 | 11.11 | 11.02 | 11.13 | 11.22 |
| 3. | Rice White | " | 9.49 | 9.79 | 9.80 | 9.81 | 9.84 | 9.87 | 10.08 | 10.10 | 10.28 | 10.08 | 10.26 | 10.62 |
| Pulses | | | | | | | | | | | | | | |
| 1. | Greengram | " | 22.16 | 22.27 | 24.68 | 26.36 | 27.34 | 27.93 | 27.63 | 24.61 | 22.44 | 22.89 | 22.75 | 22.96 |
| 2. | Blackgram (without husk) | " | 27.07 | 26.36 | 29.75 | 32.31 | 32.39 | 31.93 | 31.82 | 30.75 | 29.57 | 29.00 | 28.21 | 27.43 |
| 3. | Redgram | " | 15.09 | 14.76 | 15.64 | 16.49 | 17.04 | 17.31 | 18.46 | 19.21 | 18.75 | 18.71 | 18.17 | 18.17 |
| 4. | Dhall | " | 32.51 | 31.15 | 31.12 | 31.92 | 32.54 | 32.77 | 32.46 | 32.69 | 32.35 | 32.62 | 33.77 | 33.12 |
| Other Food items | | | | | | | | | | | | | | |
| 1. | Sugar (OM) | " | 13.16 | 13.49 | 13.66 | 14.01 | 14.95 | 13.33 | 14.09 | 14.55 | 13.33 | 13.36 | 13.08 | 13.48 |
| 2. | Milk | Ltr. | 10.33 | 10.61 | 10.68 | 10.68 | 10.68 | 10.82 | 10.82 | 10.82 | 10.89 | 10.89 | 10.89 | 11.00 |
| 3. | Tea (Kannan Devan) | ½ kg. | 39.82 | 40.00 | 40.36 | 40.36 | 41.75 | 42.32 | 42.50 | 42.64 | 43.11 | 43.36 | 44.14 | 44.71 |
| 4. | Coffee Powder (Brook Bond green label) | " | 60.50 | 57.14 | 56.04 | 55.96 | 55.46 | 55.00 | 55.00 | 55.00 | 55.00 | 55.00 | 55.71 | 56.61 |
| 5. | Baby food (Amul) | Kg. | 102.96 | 106.83 | 106.83 | 106.83 | 110.18 | 112.00 | 109.60 | 112.33 | 113.08 | 113.08 | 115.31 | 113.08 |
| 6. | Egg (Herr's White Legon) | Dozen | 13.26 | 13.63 | 13.09 | 12.37 | 15.34 | 17.22 | 17.15 | 14.27 | 14.10 | 14.57 | 17.31 | 17.26 |
| 7. | Mutton (with bones) | Kg. | 86.07 | 88.93 | 88.93 | 90.00 | 92.50 | 95.71 | 95.71 | 96.07 | 96.07 | 95.71 | 95.71 | 95.36 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|------------------------------|------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Oil and Oil seeds | | | | | | | | | | | | | | |
| 1. | Coconut oil | " | 46.05 | 48.56 | 43.28 | 44.43 | 42.84 | 43.53 | 43.53 | 46.84 | 54.60 | 55.04 | 62.10 | 67.91 |
| 2. | Groundnut oil | " | 45.64 | 45.69 | 45.44 | 45.85 | 46.04 | 46.47 | 46.47 | 47.70 | 48.39 | 48.08 | 46.17 | 45.48 |
| 3. | Refined oil (Postman) | " | 64.52 | 64.32 | 63.98 | 64.07 | 64.24 | 62.08 | 62.08 | 61.79 | 64.28 | 84.28 | 64.85 | 65.23 |
| 4. | Gingelly oil | " | 49.68 | 50.18 | 49.82 | 49.61 | 49.59 | 49.18 | 48.43 | 47.72 | 47.93 | 47.21 | 47.64 | 46.86 |
| 5. | Coconut (without husk) | 100 Nos | 427.14 | 466.07 | 429.64 | 429.29 | 420.36 | 419.64 | 417.50 | 435.36 | 495.00 | 530.36 | 585.38 | 620.00 |
| Spices and Condiments | | | | | | | | | | | | | | |
| 1. | Corriander | Kg | 25.04 | 25.00 | 25.00 | 25.36 | 27.50 | 31.29 | 31.86 | 32.71 | 50.57 | 53.36 | 50.39 | 49.21 |
| 2. | Chillies (dry) | " | 62.71 | 49.07 | 47.14 | 47.43 | 48.07 | 55.29 | 54.71 | 53.57 | 54.93 | 56.29 | 54.36 | 48.43 |
| 3. | Onion (small) | " | 10.56 | 10.04 | 10.31 | 13.24 | 13.74 | 13.48 | 10.59 | 9.14 | 8.32 | 10.68 | 11.38 | 9.29 |
| 4. | Tamarind | " | 20.57 | 19.86 | 19.50 | 19.71 | 19.86 | 21.14 | 21.86 | 21.75 | 21.57 | 22.21 | 23.07 | 23.64 |
| Tubers | | | | | | | | | | | | | | |
| 1. | Chennai | " | 5.04 | 5.29 | 5.43 | 5.71 | 6.96 | 7.64 | 7.57 | 6.93 | 6.25 | 6.11 | 5.39 | 5.89 |
| 2. | Tapioca (Raw) | " | 3.57 | 3.71 | 3.85 | 3.89 | 3.96 | 3.86 | 3.86 | 4.04 | 4.14 | 4.11 | 4.07 | 4.05 |
| 3. | Potato | " | 7.34 | 7.14 | 7.35 | 8.50 | 9.76 | 9.57 | 9.74 | 9.82 | 7.57 | 7.36 | 8.08 | 9.14 |
| 4. | Colocassia | " | 7.93 | 9.23 | 10.55 | 10.36 | 11.67 | 11.42 | 10.67 | 11.75 | 11.15 | 11.21 | 9.89 | 10.29 |
| Fruits and Vegetables | | | | | | | | | | | | | | |
| 1. | Onion (Big) | " | 5.94 | 5.39 | 5.41 | 5.39 | 6.01 | 6.88 | 6.89 | 6.46 | 5.78 | 7.61 | 7.89 | 8.39 |
| 2. | Brinjal | " | 7.14 | 7.18 | 6.89 | 7.14 | 8.57 | 8.57 | 8.64 | 9.29 | 7.43 | 9.86 | 8.57 | 10.50 |
| 3. | Pumpkin | " | 4.86 | 4.75 | 5.04 | 5.64 | 5.32 | 5.43 | 5.79 | 5.96 | 5.43 | 5.29 | 5.36 | 5.50 |
| 4. | Cucumber | " | 6.54 | 5.50 | 6.04 | 4.96 | 6.43 | 7.50 | 10.21 | 9.36 | 5.82 | 6.75 | 8.57 | 7.43 |
| 5. | Ladies finger | " | 9.86 | 8.71 | 10.14 | 9.07 | 9.86 | 9.11 | 9.64 | 8.57 | 6.93 | 8.93 | 8.50 | 12.93 |
| 6. | Cabbage | " | 7.18 | 6.14 | 6.43 | 7.50 | 10.00 | 8.61 | 8.07 | 7.36 | 6.68 | 6.57 | 6.50 | 6.50 |
| 7. | Bittergourd | " | 11.21 | 11.36 | 10.93 | 13.00 | 15.21 | 17.79 | 16.93 | 16.57 | 11.93 | 14.00 | 12.71 | 14.29 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |
|-----|-----------------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8. | Ash gourd | Kg | 5.07 | 5.50 | 5.04 | 5.11 | 5.21 | 5.29 | 5.89 | 9.39 | 6.50 | 5.89 | 5.54 | 5.39 |
| 9. | Snakegourd | " | 7.29 | 6.57 | 7.07 | 7.57 | 8.00 | 10.86 | 9.64 | 11.86 | 8.00 | 8.86 | 8.00 | 10.43 |
| 10. | Chillies (Green) | " | 12.36 | 11.43 | 15.21 | 15.21 | 17.50 | 26.64 | 13.79 | 16.14 | 11.50 | 11.71 | 11.14 | 14.79 |
| 11. | Banana (green) | " | 8.82 | 8.43 | 8.54 | 12.00 | 13.86 | 11.21 | 12.68 | 14.25 | 12.21 | 11.96 | 12.18 | 12.32 |
| 12. | Plantain (green) | " | 6.25 | 6.07 | 6.04 | 6.07 | 6.39 | 6.39 | 7.89 | 8.71 | 8.71 | 8.64 | 8.21 | 8.46 |
| | Miscellaneous items | | | | | | | | | | | | | |
| 1. | Tobacco | " | 46.86 | 50.36 | 57.21 | 58.57 | 52.79 | 63.79 | 65.64 | 65.57 | 64.93 | 63.08 | 61.69 | 60.00 |
| 2. | Mundu (Mull) | Each | 43.35 | 43.35 | 43.80 | 44.63 | 44.78 | 46.85 | 44.99 | 45.70 | 45.70 | 46.63 | 47.09 | 47.33 |
| 3. | Washing Soda | Kg | 14.32 | 14.39 | 14.93 | 15.00 | 14.88 | 15.15 | 15.15 | 15.23 | 15.96 | 15.96 | 16.00 | 16.07 |
| 4. | Washing Soap (501) | ½ Bar | 5.71 | 5.80 | 6.18 | 6.20 | 6.48 | 6.71 | 6.71 | 6.75 | 6.75 | 6.79 | 7.02 | 7.04 |
| 5. | Toilet soap (Lux) | Each | 7.54 | 7.04 | 7.14 | 7.23 | 7.52 | 7.84 | 7.84 | 7.93 | 7.93 | 7.96 | 8.11 | 8.21 |
| 6. | Tooth paste (Colgate) | 100 gms | 18.18 | 18.26 | 18.33 | 18.40 | 18.40 | 18.40 | 18.79 | 19.01 | 18.98 | 18.51 | 18.13 | 18.01 |
| 7. | Razor Blade Topez | 5 Nos | 5.95 | 5.81 | 5.71 | 5.79 | 5.82 | 5.79 | 5.71 | 5.79 | 5.79 | 5.79 | 5.79 | 5.96 |
| 8. | Crocin | 2 Tabs | 0.75 | 0.75 | 0.77 | 0.77 | 0.77 | 0.79 | 0.80 | 0.84 | 0.83 | 0.88 | 0.87 | 0.89 |
| 9. | Ele. Bulb (Philips) | Each | 9.51 | 9.51 | 9.48 | 9.48 | 9.48 | 9.63 | 9.63 | 9.63 | 9.63 | 9.66 | 9.71 | 9.71 |
| 10. | Torch Battery (Everedy 950) | " | 8.38 | 6.45 | 8.57 | 6.55 | 6.64 | 6.71 | 8.80 | 8.82 | 6.89 | 8.93 | 8.98 | 6.98 |
| 11. | Paper | 24 sheets | 7.59 | 7.59 | 7.62 | 7.62 | 7.78 | 7.87 | 7.87 | 7.98 | 8.05 | 8.09 | 8.26 | 8.44 |
| 12. | Fire Wood (Local) | Qtl | 129.17 | 129.17 | 130.83 | 134.17 | 134.17 | 134.17 | 134.17 | 134.17 | 134.17 | 140.09 | 141.67 | 141.67 |
| 13. | Cement (Sankar) | Each | 164.15 | 164.15 | 167.45 | 169.17 | 175.18 | 181.00 | 185.58 | 189.67 | 189.00 | 187.31 | 184.15 | 180.38 |

Source : Department of Economics and Statistics, Govt. of Kerala

Appendix - 3.3

Consumer Price Index (Cost of Living Index) Numbers for Agricultural and Industrial Workers - Kerala 1996

(Base 1970=100)

| Sl.No. | Centre | 1996 | | | | | | | | | | | | | |
|--------|--------------------|----------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|----|
| | | December | January | February | March | April | May | June | July | August | September | October | November | December | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | |
| 1. | Thiruvananthapuram | 784 | 793 | 802 | 811 | 819 | 829 | 842 | 851 | 856 | 859 | 859 | 885 | 885 | NA |
| 2. | Kollam | 805 | 816 | 826 | 833 | 840 | 850 | 863 | 871 | 877 | 881 | 883 | 889 | 889 | " |
| 3. | Punalur | 730 | 740 | 747 | 755 | 762 | 771 | 783 | 791 | 797 | 801 | 803 | 808 | 808 | " |
| 4. | Alappuzha | 788 | 797 | 805 | 813 | 821 | 830 | 840 | 849 | 855 | 859 | 861 | 866 | 866 | " |
| 5. | Kottayam | 790 | 799 | 809 | 815 | 822 | 829 | 839 | 847 | 852 | 856 | 859 | 864 | 864 | " |
| 6. | Mundakkayam | 778 | 785 | 794 | 800 | 806 | 814 | 826 | 835 | 839 | 842 | 844 | 849 | 849 | " |
| 7. | Munnar | 756 | 761 | 767 | 773 | 779 | 786 | 796 | 804 | 810 | 815 | 817 | 823 | 823 | " |
| 8. | Ernakulam | 761 | 770 | 780 | 789 | 797 | 807 | 819 | 829 | 835 | 840 | 843 | 848 | 848 | " |
| 9. | Chalakyudy | 796 | 802 | 810 | 819 | 827 | 834 | 847 | 858 | 864 | 868 | 871 | 876 | 876 | " |
| 10. | Thrissur | 789 | 796 | 803 | 809 | 816 | 825 | 835 | 845 | 850 | 855 | 858 | 863 | 863 | " |
| 11. | Palakkad | 798 | 805 | 813 | 820 | 828 | 838 | 848 | 856 | 861 | 865 | 867 | 872 | 872 | " |
| 12. | Malappuram | 816 | 824 | 833 | 840 | 846 | 855 | 864 | 873 | 878 | 879 | 880 | 886 | 886 | " |
| 13. | Kozhikode | 779 | 758 | 796 | 804 | 812 | 821 | 834 | 842 | 847 | 851 | 854 | 859 | 859 | " |
| 14. | Meppady | 823 | 831 | 838 | 846 | 853 | 860 | 872 | 881 | 885 | 889 | 891 | 895 | 895 | " |
| 15. | Kannur | 803 | 814 | 822 | 829 | 835 | 844 | 856 | 866 | 871 | 872 | 873 | 875 | 875 | " |

Source : Department of Economics and Statistics, Govt. of Kerala

Appendix - 3.4

Index Number Of Wholesale Prices In India By Groups And Sub Groups (Averages)

(Base:1961 - 82 = 100)

| Sl.No. | Item | Weight | 1995 | | | | | | | | | | | | 1996 | | | | |
|--------|---------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
| | All commodities | 100.00 | 288.4 | 291.6 | 292.6 | 294.2 | 296.1 | 297.4 | 297.9 | 297.9 | 299.4 | 297.7 | 297.9 | 297.9 | 297.9 | 299.4 | 302.8 | 304.1 | 306.1 |
| 1. | Primary articles | 32.295 | 296.3 | 301.1 | 300.4 | 302.7 | 305.3 | 307.3 | 306.8 | 306.8 | 310.2 | 305.0 | 303.0 | 304.1 | 306.6 | 314.0 | 315.8 | 321.7 | |
| 1. | Food Articles | 17.386 | 321.3 | 332.4 | 333.1 | 333.1 | 339.1 | 340.7 | 338.8 | 338.8 | 344.4 | 335.8 | 331.6 | 335.8 | 341.8 | 352.1 | 356.0 | 363.5 | |
| i. | Food grains | 7.917 | 305.7 | 307.3 | 309.8 | 313.3 | 314.6 | 315.0 | 311.2 | 314.6 | 314.6 | 315.8 | 314.1 | 313.4 | 320.8 | 325.8 | 327.7 | 355.7 | |
| | (a) Cereals | 6.824 | 293.3 | 294.1 | 295.3 | 297.7 | 300.1 | 301.2 | 298.6 | 300.9 | 302.9 | 300.7 | 300.7 | 300.5 | 305.2 | 306.8 | 308.7 | 317.2 | |
| | (b) Pulses | 1.093 | 383.1 | 390.4 | 399.9 | 410.8 | 405.1 | 401.2 | 389.9 | 400.1 | 396.5 | 397.8 | 394.2 | 394.2 | 418.0 | 444.6 | 446.3 | 451.3 | |
| ii. | Fruits and Vegetables | 4.089 | 300.6 | 331.9 | 329.0 | 309.3 | 330.7 | 334.2 | 335.3 | 344.1 | 312.5 | 303.4 | 315.5 | 343.9 | 373.3 | 374.9 | 379.7 | | |
| iii. | Milk | 1.961 | 309.3 | 315.4 | 313.6 | 314.2 | 315.6 | 315.2 | 315.6 | 311.9 | 311.9 | 310.4 | 317.9 | 314.4 | 314.7 | 320.4 | 324.9 | | |
| iv. | Egg, Fish & Meat | 1.783 | 379.3 | 377.4 | 383.8 | 398.9 | 400.8 | 409.4 | 392.9 | 402.8 | 397.1 | 393.9 | 394.8 | 376.1 | 374.7 | 382.0 | 390.8 | | |
| v. | Condiments & spices | 0.947 | 415.3 | 415.6 | 428.0 | 446.7 | 453.1 | 462.0 | 457.0 | 466.4 | 468.4 | 478.6 | 484.8 | 467.5 | 478.1 | 473.6 | 507.1 | | |
| vi. | Other Food Articles | 0.689 | 378.6 | 441.0 | 441.4 | 430.2 | 421.6 | 426.8 | 441.5 | 462.3 | 431.6 | 396.3 | 407.6 | 387.1 | 404.7 | 441.8 | 428.2 | | |
| 2. | Non-Food Articles | 10.081 | 324.3 | 319.2 | 314.8 | 321.5 | 319.6 | 322.9 | 324.4 | 325.8 | 324.0 | 324.4 | 321.0 | 318.5 | 324.1 | 323.5 | 329.3 | | |
| i. | Fibres | 1.791 | 420.0 | 391.8 | 375.5 | 386.3 | 379.8 | 377.3 | 375.7 | 379.9 | 371.4 | 368.2 | 360.4 | 342.3 | 338.9 | 341.7 | 338.7 | | |
| ii. | Oil seeds | 3.861 | 285.3 | 288.2 | 278.0 | 286.0 | 285.0 | 290.8 | 291.1 | 291.5 | 286.6 | 286.5 | 277.0 | 271.7 | 271.6 | 287.6 | 284.4 | | |
| iii. | Other non-food Articles | 4.429 | 319.7 | 318.6 | 322.4 | 326.3 | 325.5 | 329.5 | 332.7 | 333.8 | 337.4 | 339.8 | 343.4 | 349.7 | 363.8 | 347.4 | 364.6 | | |
| 3 | Minerals | 4.828 | 147.9 | 150.8 | 152.8 | 153.8 | 153.8 | 154.3 | 154.6 | 154.8 | 154.8 | 155.1 | 155.0 | 155.3 | 155.3 | 155.4 | 155.3 | | |
| i. | Petroleum Crude & Natural gas | 4.274 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | 130.2 | | |
| ii. | Fuel, Power, Light & Lubricants | 10.683 | 284.6 | 284.5 | 284.3 | 284.3 | 284.3 | 284.3 | 284.3 | 284.4 | 284.4 | 284.4 | 286.1 | 295.1 | 295.1 | 295.1 | 295.1 | | |
| iii. | Manufactured Products | 57.042 | 284.7 | 287.6 | 289.8 | 291.2 | 293.1 | 294.3 | 295.5 | 296.0 | 296.0 | 296.8 | 298.8 | 296.1 | 297.9 | 299.1 | 299.2 | | |

P - Provisional

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) |
|----------|----------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| I | Manufactured products (item-wise) | | | | | | | | | | | | | | | | |
| i. | Food products | 10.143 | 274.3 | 274.4 | 276.8 | 279.2 | 282.6 | 283.5 | 285.4 | 282.7 | 280.8 | 279.6 | 274.4 | 272.0 | 274.1 | 278.0 | 281.7 |
| ii. | Dairy products | 0.62 | 312.3 | 321.7 | 320.4 | 320.7 | 324.8 | 324.2 | 329.2 | 328.2 | 324.5 | 323.7 | 322.4 | 323.4 | 323.3 | 328.0 | 327.4 |
| iii. | Sugar, Khandasari & gur | 4.05 | 240.9 | 244.8 | 248.4 | 290.4 | 252.9 | 251.9 | 252.8 | 248.8 | 242.9 | 240.4 | 230.5 | 225.4 | 225.4 | 232.2 | 241.5 |
| 2. | Beverages, Tobacco & Tobacco products | 2.149 | 365.4 | 373.2 | 373.2 | 372.3 | 371.1 | 375.2 | 375.3 | 376.0 | 378.4 | 376.3 | 376.3 | 376.3 | 381.3 | 387.6 | 387.8 |
| 3. | Textiles | 11.545 | 285.8 | 286.8 | 288.6 | 289.5 | 291.8 | 295.2 | 297.3 | 300.2 | 298.9 | 300.1 | 300.6 | 300.9 | 305.8 | 305.9 | 302.8 |
| 4. | Peppr & Pepper products | 1.988 | 350.1 | 370.4 | 371.2 | 373.6 | 375.0 | 379.0 | 378.6 | 379.2 | 378.0 | 378.9 | 379.8 | 374.1 | 373.5 | 373.0 | 373.9 |
| 5. | Leather & Leather products | 1.018 | 272.3 | 274.1 | 273.7 | 274.3 | 276.7 | 276.7 | 276.7 | 278.4 | 278.5 | 278.5 | 279.9 | 281.5 | 282.5 | 281.1 | 281.7 |
| 6. | Rubber & Plastic products | 1.592 | 223.8 | 225.8 | 228.4 | 232.0 | 235.6 | 238.1 | 240.0 | 240.1 | 240.1 | 240.1 | 240.2 | 240.4 | 240.4 | 240.4 | 240.4 |
| 7. | Chemical and Chemical products | 7.355 | 244.1 | 246.7 | 247.5 | 248.3 | 248.6 | 247.8 | 248.7 | 250.0 | 251.4 | 252.9 | 256.6 | 256.3 | 256.2 | 257.4 | 257.5 |
| i. | Fertilisers | 1.748 | 205.7 | 210.0 | 209.6 | 210.3 | 210.5 | 210.5 | 210.7 | 211.7 | 212.3 | 212.3 | 212.5 | 212.5 | 212.5 | 212.5 | 212.5 |
| ii. | Pesticides | 0.202 | 332.7 | 332.7 | 332.7 | 332.7 | 332.7 | 297.0 | 273.2 | 273.2 | 273.2 | 273.2 | 281.6 | 281.6 | 281.8 | 281.6 | 281.6 |
| iii. | Drugs and Medicines | 1.065 | 227.3 | 230.1 | 230.0 | 230.6 | 232.4 | 234.1 | 238.9 | 238.9 | 238.9 | 239.3 | 241.3 | 242.2 | 242.2 | 242.2 | 242.2 |
| 8. | Non-Metallic Mineral Products | 2.477 | 293.7 | 309.8 | 314.2 | 317.0 | 317.6 | 316.3 | 316.4 | 316.1 | 317.9 | 322.4 | 325.1 | 323.0 | 323.1 | 326.9 | 326.9 |
| 9. | Basic Metals, Alloys and metal products | 7.632 | 318.7 | 321.6 | 326.0 | 326.4 | 329.8 | 330.8 | 331.2 | 331.4 | 332.4 | 333.2 | 333.3 | 333.5 | 333.9 | 333.8 | 333.7 |
| 10. | Machinery and Machine tools | 6.268 | 277.6 | 278.9 | 280.3 | 281.2 | 281.8 | 281.7 | 283.4 | 284.1 | 285.0 | 285.9 | 286.5 | 287.2 | 288.7 | 288.9 | 289.2 |
| i. | Motor Vehicles, Scooters, Bicycles and parts | 2.431 | 239.5 | 240.3 | 241.2 | 244.4 | 248.3 | 248.4 | 248.8 | 251.3 | 254.1 | 254.2 | 254.4 | 254.9 | 255.7 | 256.5 | 256.5 |
| ii. | Other Miscellaneous Manufacturing Industries | 0.972 | 169.8 | 170.4 | 172.2 | 169.4 | 169.4 | 169.5 | 169.5 | 169.5 | 169.7 | 169.7 | 169.8 | 169.9 | 169.7 | 170.1 | 170.1 |

Source : RBI Bulletin

Appendix - 3.5

Consumer Price Index Numbers for Industrial Workers - All India and Selected Centres

(Base: 1982 = 100)

| | 1995 | | | | | | | | | | | | 1996 | | | | | | | | | | | | | |
|------------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|
| | July | August | September | October | November | December | January | February | March | April | May | June | July | July | August | September | October | November | December | January | February | March | April | May | June | July |
| All India | 313 | 315 | 317 | 319 | 321 | 317 | 315 | 316 | 319 | 324 | 328 | 333 | 339 | 313 | 315 | 317 | 319 | 321 | 317 | 315 | 316 | 319 | 324 | 328 | 333 | 339 |
| Ahmedabad | 310 | 312 | 311 | 315 | 317 | 313 | 311 | 312 | 314 | 321 | 334 | 338 | 339 | 310 | 312 | 311 | 315 | 317 | 313 | 311 | 312 | 314 | 321 | 334 | 338 | 339 |
| Aluva | 319 | 316 | 322 | 320 | 322 | 321 | 333 | 334 | 335 | 341 | 347 | 354 | 355 | 319 | 316 | 322 | 320 | 322 | 321 | 333 | 334 | 335 | 341 | 347 | 354 | 355 |
| Bangalore | 313 | 312 | 312 | 312 | 314 | 313 | 314 | 314 | 315 | 318 | 322 | 327 | 334 | 313 | 312 | 312 | 312 | 314 | 313 | 314 | 314 | 315 | 318 | 322 | 327 | 334 |
| Mumbai | 346 | 350 | 351 | 345 | 352 | 346 | 346 | 349 | 352 | 357 | 362 | 386 | 364 | 346 | 350 | 351 | 345 | 352 | 346 | 346 | 349 | 352 | 357 | 362 | 386 | 364 |
| Cuttack | 315 | 317 | 323 | 333 | 344 | 334 | 322 | 314 | 321 | 329 | 335 | 339 | 349 | 315 | 317 | 323 | 333 | 344 | 334 | 322 | 314 | 321 | 329 | 335 | 339 | 349 |
| Coimbatore | 311 | 313 | 311 | 310 | 314 | 313 | 309 | 310 | 319 | 325 | 327 | 336 | 337 | 311 | 313 | 311 | 310 | 314 | 313 | 309 | 310 | 319 | 325 | 327 | 336 | 337 |
| Delhi | 333 | 336 | 340 | 340 | 340 | 332 | 327 | 327 | 332 | 336 | 337 | 341 | 347 | 333 | 336 | 340 | 340 | 340 | 332 | 327 | 327 | 332 | 336 | 337 | 341 | 347 |
| Hyderabad | 288 | 286 | 291 | 294 | 298 | 298 | 296 | 298 | 298 | 300 | 304 | 307 | 310 | 288 | 286 | 291 | 294 | 298 | 298 | 296 | 298 | 298 | 300 | 304 | 307 | 310 |
| Jamshedpur | 284 | 258 | 289 | 294 | 297 | 294 | 300 | 305 | 305 | 311 | 312 | 317 | 324 | 284 | 258 | 289 | 294 | 297 | 294 | 300 | 305 | 305 | 311 | 312 | 317 | 324 |
| Madras | 343 | 342 | 341 | 340 | 342 | 338 | 332 | 337 | 337 | 341 | 351 | 364 | 367 | 343 | 342 | 341 | 340 | 342 | 338 | 332 | 337 | 337 | 341 | 351 | 364 | 367 |
| Madhura | 331 | 327 | 331 | 325 | 328 | 331 | 324 | 326 | 331 | 327 | 333 | 346 | 353 | 331 | 327 | 331 | 325 | 328 | 331 | 324 | 326 | 331 | 327 | 333 | 346 | 353 |
| Mundakayam | 326 | 318 | 317 | 321 | 327 | 332 | 334 | 341 | 341 | 346 | 353 | 362 | 368 | 326 | 318 | 317 | 321 | 327 | 332 | 334 | 341 | 341 | 346 | 353 | 362 | 368 |
| Nagpur | 320 | 325 | 326 | 327 | 326 | 320 | 321 | 325 | 326 | 331 | 336 | 339 | 346 | 320 | 325 | 326 | 327 | 326 | 320 | 321 | 325 | 326 | 331 | 336 | 339 | 346 |

Source : FIBI Bulletin

Appendix - 3.6

Consumer Price Index Numbers For Agricultural labourers - State Wise

(Base: July 1986 - June 1987=100)

| | 1995 | | | | | | | | | | | | 1996 | | | | | | | | | | | |
|-----------------|----------|----------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|--------|-----------|--|
| | November | December | January | February | March | April | May | June | July | August | September | October | November | December | January | February | March | April | May | June | July | August | September | |
| All India | 240 | 238 | 236 | 236 | 237 | 240 | 243 | 247 | 252 | 256 | 259 | | 240 | 238 | 236 | 236 | 237 | 240 | 243 | 247 | 252 | 256 | 259 | |
| Andra Pradesh | 243 | 243 | 242 | 241 | 240 | 242 | 245 | 251 | 254 | 265 | 267 | | 243 | 243 | 241 | 241 | 245 | 251 | 245 | 251 | 254 | 265 | 267 | |
| Assam | 248 | 245 | 241 | 238 | 240 | 243 | 248 | 250 | 254 | 257 | 259 | | 248 | 245 | 241 | 241 | 248 | 250 | 254 | 250 | 254 | 257 | 259 | |
| Bihar | 223 | 221 | 218 | 219 | 223 | 225 | 226 | 230 | 236 | 243 | 248 | | 223 | 221 | 219 | 223 | 226 | 230 | 236 | 230 | 236 | 243 | 248 | |
| Gujrat | 242 | 239 | 236 | 236 | 238 | 243 | 244 | 250 | 252 | 255 | 254 | | 242 | 239 | 236 | 243 | 244 | 250 | 252 | 250 | 252 | 255 | 254 | |
| Jammu & Kashmir | 223 | 223 | 222 | 222 | 224 | 228 | 232 | 234 | 241 | 245 | 253 | | 223 | 223 | 222 | 228 | 232 | 234 | 241 | 241 | 241 | 245 | 253 | |
| Karnataka | 250 | 250 | 250 | 247 | 249 | 251 | 255 | 259 | 264 | 265 | 266 | | 250 | 250 | 247 | 251 | 255 | 259 | 264 | 259 | 264 | 265 | 266 | |
| Kerala | 250 | 252 | 253 | 256 | 259 | 263 | 266 | 270 | 274 | 277 | 274 | | 250 | 252 | 253 | 263 | 266 | 270 | 274 | 270 | 274 | 277 | 274 | |
| Madhyapradesh | 238 | 234 | 231 | 233 | 235 | 238 | 241 | 247 | 253 | 257 | 261 | | 238 | 234 | 233 | 238 | 241 | 247 | 253 | 247 | 253 | 257 | 261 | |
| Maharashtra | 250 | 247 | 245 | 246 | 244 | 246 | 250 | 254 | 259 | 260 | 261 | | 250 | 247 | 245 | 246 | 250 | 254 | 259 | 254 | 259 | 260 | 261 | |
| Orissa | 238 | 238 | 234 | 234 | 232 | 235 | 237 | 240 | 243 | 248 | 253 | | 238 | 238 | 234 | 235 | 237 | 240 | 243 | 240 | 243 | 248 | 253 | |
| Punjab | 243 | 241 | 240 | 240 | 242 | 248 | 247 | 249 | 252 | 256 | 262 | | 243 | 241 | 240 | 248 | 247 | 249 | 252 | 249 | 252 | 256 | 262 | |
| Rajasthan | 237 | 236 | 234 | 236 | 234 | 237 | 240 | 246 | 251 | 255 | 255 | | 237 | 236 | 234 | 237 | 240 | 246 | 251 | 246 | 251 | 255 | 255 | |
| Tamil Nadu | 244 | 244 | 243 | 243 | 243 | 248 | 251 | 252 | 258 | 258 | 258 | | 244 | 244 | 243 | 248 | 251 | 252 | 258 | 252 | 258 | 258 | 258 | |
| Uttar Pradesh | 232 | 229 | 227 | 228 | 233 | 233 | 234 | 242 | 251 | 256 | 262 | | 232 | 229 | 227 | 233 | 234 | 242 | 251 | 242 | 251 | 256 | 262 | |
| Bengal | 236 | 231 | 226 | 228 | 225 | 231 | 235 | 236 | 242 | 246 | 251 | | 236 | 231 | 226 | 228 | 235 | 236 | 242 | 236 | 242 | 246 | 251 | |

Source : RBI Bulletin

Appendix - 3.7

Consumer Price Index Numbers For Urban Non-Manual Employees - All India & Selected Centres

(Base:1984-85 = 100)

| | 1995 | | | | | | | | | | | |
|--------------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|
| | January | February | March | April | May | June | July | August | September | October | November | December |
| All India | 242 | 243 | 244 | 247 | 249 | 254 | 258 | 260 | 261 | 263 | 264 | 264 |
| Mumbai | 245 | 245 | 247 | 251 | 253 | 257 | 259 | 259 | 260 | 261 | 264 | 264 |
| Delhi | 232 | 233 | 234 | 236 | 238 | 241 | 246 | 251 | 252 | 255 | 253 | 253 |
| Calcutta | 230 | 234 | 235 | 238 | 242 | 247 | 251 | 251 | 253 | 256 | 258 | 258 |
| Chennai | 267 | 269 | 269 | 271 | 276 | 280 | 287 | 286 | 286 | 288 | 287 | 287 |
| Hydrabad | 252 | 254 | 254 | 256 | 260 | 266 | 272 | 273 | 274 | 275 | 278 | 278 |
| Bangalore | 242 | 243 | 243 | 243 | 246 | 251 | 253 | 255 | 257 | 260 | 261 | 261 |
| Lucknow | 227 | 228 | 231 | 235 | 238 | 248 | 248 | 250 | 251 | 252 | 251 | 251 |
| Ahemadabad | 224 | 225 | 226 | 229 | 231 | 234 | 240 | 239 | 239 | 240 | 242 | 242 |
| Jaipur | 248 | 251 | 250 | 250 | 251 | 255 | 260 | 263 | 266 | 265 | 265 | 265 |
| Patna | 246 | 244 | 245 | 249 | 248 | 250 | 258 | 265 | 265 | 267 | 269 | 269 |
| Srinagar | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 258 | 258 |
| Thiruvananthapuram | 234 | 237 | 236 | 240 | 241 | 243 | 246 | 248 | 248 | 248 | 247 | 247 |
| Cuttak | 231 | 227 | 228 | 232 | 237 | 242 | 246 | 245 | 247 | 251 | 254 | 254 |
| Bhopal | 239 | 239 | 239 | 242 | 243 | 249 | 254 | 255 | 259 | 260 | 260 | 260 |
| Chandigar | 287 | 267 | 289 | 289 | 271 | 274 | 278 | 280 | 284 | 283 | 285 | 285 |
| Shillong | 254 | 255 | 256 | 257 | 259 | 282 | 270 | 271 | 272 | 273 | 275 | 275 |

Source : RBI Bulletin

Appendix - 3.8

Whole Sale Price Index Of Agricultural Commodities 1981-96

(Base:1952-53 = 100)

| Group | Weight | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996* |
|-----------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| A. Food Crops | 63.5 | 417 | 413 | 499 | 497 | 582 | 679 | 709 | 696 | 725 | 835 | 936 | 984 | 1310 | 1384 | 1809 | 1732 |
| Rice | 40.4 | 319 | 319 | 406 | 442 | 448 | 501 | 529 | 533 | 544 | 592 | 638 | 838 | 837 | 957 | 1182 | 1162 |
| Condiments and Spices | 10.4 | 442 | 439 | 548 | 854 | 637 | 1324 | 1435 | 775 | 754 | 1098 | 1542 | 1688 | 1895 | 1779 | 1960 | 2323 |
| Fruits and Vegetables | 10.7 | 728 | 740 | 779 | 913 | 1008 | 759 | 858 | 1199 | 1342 | 1450 | 1449 | 1571 | 2434 | 2534 | 2978 | 3282 |
| Molasses | 2.0 | 606 | 412 | 626 | 629 | 709 | 889 | 626 | 881 | 909 | 1082 | 1061 | 1161 | 1803 | 1781 | 1477 | 1873 |
| B. Non-Food Crops | 36.5 | 680 | 672 | 930 | 1477 | 966 | 1009 | 1324 | 1428 | 1215 | 1365 | 1832 | 2062 | 1966 | 1679 | 1884 | 2206 |
| Oil Seeds | 25.5 | 819 | 796 | 1112 | 1863 | 1142 | 1227 | 1620 | 1795 | 1411 | 1562 | 2240 | 2543 | 2368 | 1915 | 2029 | 2480 |
| Plantation Crops | 11.0 | 358 | 386 | 508 | 585 | 560 | 509 | 568 | 578 | 761 | 910 | 888 | 948 | 1038 | 1134 | 1485 | 1574 |
| C. All Crops | 100.00 | 513 | 507 | 656 | 918 | 722 | 800 | 933 | 963 | 904 | 1028 | 1263 | 1377 | 1550 | 1492 | 1702 | 1905 |

Source : Department of Economics and Statistics, Govt. of Kerala

* Average from January to November (11 months) only

Appendix-4.1

District-wise Number and Area of Total Operational Holdings 1990-91

| Sl No. | District | Number | % to Total | Area (ha) | %to Total | Average Size of Holdings (ha) |
|--------|--------------------|---------|------------|-----------|-----------|-------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Thiruvananthapuram | 628868 | 11.60 | 106773 | 5.93 | 0.16 |
| 2. | Kollam | 482211 | 8.90 | 79645 | 5.43 | 0.20 |
| 3. | Pathanamthitta | 249967 | 4.61 | 89791 | 4.98 | 0.33 |
| 4. | Alappuzha | 403973 | 7.45 | 83974 | 4.66 | 0.20 |
| 5. | Kottayam | 348017 | 6.42 | 146533 | 8.13 | 0.41 |
| 6. | Idukki | 244830 | 4.52 | 204127 | 11.33 | 0.57 |
| 7. | Ernakulam | 516296 | 9.53 | 126072 | 7.00 | 0.23 |
| 8. | Thrissur | 513861 | 9.48 | 124216 | 6.89 | 0.24 |
| 9. | Palakkad | 434439 | 8.02 | 186730 | 10.36 | 0.42 |
| 10. | Malappuram | 461029 | 8.51 | 140266 | 7.78 | 0.30 |
| 11. | Kozhikode | 462603 | 8.54 | 135415 | 6.96 | 0.26 |
| 12. | Wayanad | 131736 | 2.43 | 100952 | 5.60 | 0.68 |
| 13. | Kannur | 369760 | 6.82 | 166621 | 9.25 | 0.45 |
| 14. | Kasargode | 171599 | 3.17 | 102708 | 5.70 | 0.52 |
| | State | 5419189 | 100.00 | 1801823 | 100.00 | 0.31 |

Source : Agricultural Census 1990-91, Directorate of Economic & Statistics (ha-hectare)

Appendix-4.2

Number of Operational Holdings and Area Operated by size class 1990-91 (Kerala)

| Sl. No. | Size of holding (ha) | Number of Operational Holdings | | | | Area Operated (ha) | | | |
|---------|-----------------------------------|--------------------------------|-------|-------------|---------|--------------------|-------|---------------|---------|
| | | Individuals | Joint | Institution | Total | Individual | Joint | Institutional | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Below 0.02 | 630075 | 70 | 4979 | 635124 | 8233 | .. | 67 | 8300 |
| 2. | 0.02-0.50 | 3877167 | 2301 | 34814 | 3914282 | 529603 | 463 | 5033 | 535099 |
| 3. | 0.50-1.00 Marginal (1+2+3) | 460215 | 482 | 4976 | 466673 | 331649 | 332 | 4094 | 336073 |
| 4. | 1.00-2.00 small (4) | 4967457 | 2853 | 45769 | 5016079 | 8694483 | 795 | 9194 | 879472 |
| | | 276756 | 469 | 3675 | 280900 | 375791 | 648 | 4998 | 381437 |
| 5. | 2.00-3.00 | 276756 | 469 | 3675 | 280900 | 375791 | 648 | 4998 | 381437 |
| 6. | 3.00-4.00 Semi medium (5+6) | 74109 | 171 | 1382 | 75662 | 175541 | 444 | 3144 | 179129 |
| | | 21402 | 138 | 496 | 22036 | 72570 | 416 | 1682 | 74668 |
| 7. | 4.00-5.00 | 95511 | 309 | 1878 | 97698 | 248111 | 860 | 4826 | 253797 |
| 8. | 5.00-7.50 | 11687 | 86 | 456 | 12229 | 50809 | 420 | 1980 | 53209 |
| 9. | 7.50-10.00 Medium (7+8+9) | 6680 | 45 | 357 | 7082 | 39388 | 296 | 2196 | 41880 |
| | | 1894 | 15 | 164 | 2073 | 16103 | 122 | 1441 | 17666 |
| 10. | 10.00-20.00 Large (10+11) | 20261 | 146 | 977 | 21384 | 106300 | 838 | 5617 | 112755 |
| | | 1596 | 30 | 197 | 1823 | 19997 | 401 | 2688 | 23086 |
| 11. | 20 and above All sizes | 741 | 20 | 544 | 1305 | 29807 | 561 | 120908 | 151276 |
| | | 2337 | 50 | 741 | 3128 | 49804 | 962 | 123596 | 174362 |
| | | 5362322 | 3827 | 53040 | 5419189 | 1649489 | 4103 | 148231 | 1801823 |

Source : Agriculture Census 1990-91, Directorate of Economic and Statistics (ha-hectare)

Appendix - 4.3

Percentage Distribution of Main workers as Cultivators, Agricultural Labourers, Household industry workers and other workers

1981-1991

| (1) | Persons Males, Females (2) | Cultivators | | Agri.Labourers | | Household Industry workers | | Other Workers | |
|--------|----------------------------------|-------------|-------------|----------------|-------------|-------------------------------|-------------|---------------|--------------|
| | | 1981 (3) | 1991 (4) | 1981 (5) | 1991 (6) | 1981 (7) | 1991 (8) | 1981 (9) | 1991 (10) |
| India | Persons | 41.58 | 38.75 | 24.94 | 26.15 | 3.47 | 3.63 | 30.01 | 31.47 |
| | Males | 13.70 | 40.01 | 19.56 | 20.90 | 3.18 | 3.33 | 33.56 | 35.76 |
| | Females | 33.20 | 34.55 | 46.18 | 43.56 | 4.59 | 4.63 | 16.03 | 17.26 |
| Kerala | Persons | 13.07 | 12.38 | 28.23 | 25.66 | 3.69 | 3.92 | 55.01 | 58.04 |
| | Males | 15.67 | 14.38 | 23.32 | 22.61 | 2.42 | 2.77 | 58.59 | 60.24 |
| | Females | 4.95 | 5.74 | 43.55 | 35.76 | 7.64 | 7.76 | 43.86 | 50.74 |

Source : Census 1991

Appendix - 4.4

District-wise Area, production and productivity of Rice in Kerala 1995-96 (Area in ha. production in Tonnes and productivity Kg/ha)

| Sl. No. | District | Area | Production | Productivity |
|------------|--------------------|--------|------------|--------------|
| (1) | (2) | (3) | (4) | (5) |
| 1. | Thiruvananthapuram | 16986 | 31831 | 1874 |
| 2. | Kollam | 23252 | 45370 | 1951 |
| 3. | Pathanamthitta | 10860 | 27210 | 2506 |
| 4. | Alappuzha | 44132 | 121047 | 2743 |
| 5. | Kottayam | 24878 | 55609 | 2235 |
| 6. | Idukki | 4660 | 10817 | 2321 |
| 7. | Emakulam | 56533 | 101951 | 1803 |
| 8. | Thrissur | 58703 | 110698 | 1886 |
| 9. | Palakkad | 135630 | 280405 | 2067 |
| 10. | Malappuram | 37919 | 65208 | 1720 |
| 11. | Kozhikode | 8749 | 10593 | 1211 |
| 12. | Wayanad | 20388 | 46654 | 2288 |
| 13. | Kannur | 16801 | 26050 | 1551 |
| 14. | Kasargode | 11659 | 19583 | 1680 |
| 15. | State | 471150 | 953026 | 2023 |

Source :- Directorate of Economic & Statistics (ha-hectare)

Appendix 4.5

District wise Area, production and productivity of HYV of Rice in Kerala (Area in Hectare, production in Tonnes and Productivity Kg/Ha.)

| Sl. NO | District | Virippu | | | Mundakan | | | Punja | | | Total | | |
|--------|--------------------|----------|----------------|------------------|----------|----------------|------------------|----------|-----------------|-------------------|-----------|-----------------|-------------------|
| | | Area (3) | Production (4) | Productivity (5) | Area (6) | Production (7) | Productivity (8) | Area (9) | Production (10) | Productivity (11) | Area (12) | Production (13) | Productivity (14) |
| 1. | Thiruvananthapuram | 5053 | 10080 | 1995 | 2873 | 5739 | 1998 | 2 | 2 | 1000 | 7928 | 15821 | 1996 |
| 2. | Kollam | 9230 | 17990 | 1948 | 2127 | 4561 | 2144 | 17 | 263 | 1353 | 11374 | 22574 | 1885 |
| 3. | Pathanamthitta | 2211 | 4359 | 972 | 1944 | 4360 | 2243 | 3723 | 12430 | 3339 | 7878 | 21149 | 2885 |
| 4. | Alappuzha | 11018 | 24024 | 2181 | 14863 | 52076 | 3480 | 10780 | 35107 | 3263 | 38739 | 111207 | 3027 |
| 5. | Kottayam | 6818 | 13593 | 1994 | 7424 | 15646 | 2107 | 8518 | 22401 | 2830 | 22760 | 51640 | 2268 |
| 6. | Idukki | 202 | 458 | 2267 | 788 | 1733 | 2199 | .. | .. | .. | 990 | 2181 | 2213 |
| 7. | Ernakulam | 10430 | 19132 | 1834 | 3285 | 8709 | 2042 | 4642 | 8333 | 1785 | 18357 | 34174 | 1862 |
| 8. | Thrissur | 4127 | 7081 | 1718 | 4135 | 11112 | 2687 | 6301 | 17546 | 2785 | 14563 | 35739 | 2454 |
| 8. | Palakkad | 8543 | 17743 | 2077 | 2912 | 7728 | 2654 | 322 | 706 | 2193 | 11777 | 28177 | 2223 |
| 10. | Malappuram | 4338 | 7831 | 1805 | 1805 | 3221 | 1784 | 2922 | 8188 | 2806 | 9065 | 19250 | 2124 |
| 11. | Kozhikode | 453 | 542 | 1196 | 778 | 1152 | 1481 | 686 | 958 | 1394 | 1817 | 2650 | 1382 |
| 12. | Wayanad | .. | .. | .. | 6348 | 17051 | 2688 | 3180 | 7939 | 2512 | 9508 | 24990 | 2828 |
| 13. | Kannur | 5904 | 8709 | 1644 | 1186 | 2270 | 1914 | 87 | 173 | 1784 | 7187 | 12152 | 1691 |
| 14. | Kasaragod | 2702 | 5134 | 1900 | 1034 | 1941 | 1877 | 87 | 236 | 2433 | 3833 | 7311 | 1907 |
| 15. | State | 71027 | 137678 | 1938 | 51802 | 135299 | 2822 | 41247 | 114050 | 2765 | 163878 | 387025 | 23617 |

Source :- Directorate of Economic & Statistics

Appendix 4.6
Average prices of Important Agricultural Inputs

| Sl. No. | Item | 1993-94 | 1994-95 | 1995-96 |
|---------|-----------------------------------------|------------|-------------|-----------------|
| 1 | 2 | 3 | 4 | 5 |
| | Fertilizers (price/tonne) | | | |
| 1. | Urea | Rs.3320+ST | Rs.3820+ST | Rs.3320+ST |
| 2. | Amonium sulphate | Rs.4150+ST | Rs.3850+ST | Rs.3750-4150+ST |
| 3. | Super phospate | Rs.2767 | Rs.2640 | Rs.2800 |
| 4. | Muriate of potash | Rs.3813 | Rs.3817.50 | Rs.4458+ST |
| | Paddy seed | | | |
| 1. | Avg. NSC Price (per Qtl.) | Rs.803.75 | Rs.817.50 | Rs.900.00 |
| 2. | Stete seed farm price (Qtl.) | Rs.500 | Rs.500 | Rs.500 |
| 3. | Green Manure Seed (per kg.) | | | |
| | (i) Dainch | Rs.8.50 | Rs.8.55 | Rs.10.50 |
| | (ii) Sannhemp | Rs.8.00 | Rs.11.75 | Rs.12.50 |
| 4. | Coconut seedlings | | | |
| | a. WCT | Rs.15.00 | Rs.15.00 | Rs.15.00 |
| | b. Hybrids | Rs.18.00 | Rs.18.00 | Rs.18.00 |
| 5. | Cashew grafts (per kg) | Rs.20.00 | Rs.20.00 | Rs.15.00 |
| 6. | Rooted pepper cuttings (price/cuttings) | Rs.1.50 | Rs.1.50 | Rs.1.50 |
| 7. | Pesticides (price/litre/kg.) | | | |
| | 1. Phosphamidon | Rs.360/lit | Rs.440/lit | Rs.430/lit. |
| | 2. Quinalphos | Rs.293/lit | Rs.348/lit | Rs.350/lit |
| | 3. Monocrotophos | Rs.310/lit | Rs.416/lit | Rs.380/lit |
| | 4. Copper sulphate | Rs.60/kg. | Rs.58.9/kg. | Rs.54.50/kg. |

Source:- Directorate of Agriculture
ST-Sales Tax

NSC - National Seed corporation
WCT - West Cost Tall

APPENDIX -4.7

Activities in the Animal Husbandry Sector
during the last three Years

| Sl.No. | Activities | 1993-94 | 1994-95 | 1995-96 |
|--------|-------------------------------------------------|-----------|-------------|-----------|
| 1 | 2 | 3 | 4 | 5 |
| 1. | Ceases treated | 33,29,500 | 34,00,886 | 34,41,264 |
| 2. | Operations performed. | 1,12,041 | 1,16,627 | 1,21,400 |
| 3. | Castrations done. | 12,245 | 10,079 | 11,532 |
| 4. | Vaccinations done. | | | |
| | 1) Livestock | 23,49,143 | 24,24,315 | 25,01,892 |
| | 2) Poultry | 46,47,680 | 47,54,576 | 48,63,930 |
| 5. | Anti Rabic Veccinations done in dogs. | 49,818 | 46,941 | 48,762 |
| 6. | Artificiel Inseminations done. | 13,51,831 | 14,64,941 | 12,40,116 |
| 7. | Celvings recorded. | 3,03,331 | 3,06,975 | 3,23,958 |
| 8. | Chicks hatchedout in departmentel poultry farms | 8,94,655 | 9,20,592 | 9,47,280 |
| 9. | Veccines produced in Veterinary Biologicals. | | | |
| | 1. poultry | 90,70,100 | 1,53,91,900 | 57,02,200 |
| | 2. Livestock | 14,88,680 | 1149090 | 7,31,630 |

Source :- Animal Husbandry Department

APPENDIX-4.8
Average price of Livestock Products and Feeds in the State
for the last three years

| Item | Unit | 1993-94 (Rs) | % Increase | 1994-95 (Rs) | %Increase | 1995-96 (Rs) | %Increase. |
|----------------------|---------|-----------------|------------|-----------------|-----------|-----------------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Meat | | | | | | | |
| Chicken | Kg. | 37.00 | 23.33 | 43.00 | 16.21 | 50.00 | 16.28 |
| Mutton | Kg. | 59.00 | 18.00 | 69.00 | 16.95 | 83.00 | 20.29 |
| Beef | Kg. | 25.67 | 28.35 | 29.00 | 12.97 | 33.00 | 13.79 |
| Pork | Kg. | 34.80 | 16.67 | 40.00 | 14.94 | 43.00 | 7.50 |
| Egg | | | | | | | |
| Fowl | 100 Nos | 104.53 | 10.00 | 115.00 | 10.02 | 130.00 | 13.04 |
| Duck | " | 159.05 | 09.90 | 180.00 | 13.17 | 200.00 | 11.11 |
| Milk | | | | | | | |
| Cow | Lit. | 7.60 | 16.92 | 8.75 | 15.13 | 9.75 | 11.43 |
| Buffaloe | " | 8.74 | 16.67 | 10.00 | 14.42 | 11.00 | 10.00 |
| Feed Products | | | | | | | |
| (Price) | | | | | | | |
| Groundnut cake | Kg. | 5.77 | 15.40 | 7.20 | 24.78 | 8.25 | 14.58 |
| Coconut cake | " | 6.51 | 8.33 | 6.70 | 2.92 | 7.50 | 11.94 |
| Fish Meal | | | | | | | |
| Straw | Kg. | 1.40 | 16.67 | 1.90 | 35.71 | 2.60 | 36.84 |
| Grass | Kg. | 0.60 | 50.00 | 0.90 | 50.00 | 1.30 | 44.44 |

Source : Animal Husbandry Department.

Appendix 4.9
Record of Performance of the Dairies During 1996

| Sl. No. | Dairy | Capacity (LPD) | Procurements (Litres) | | | | Sale (Litres) | | | |
|---------|--------------------|----------------|-----------------------|----------|---------|--------|---------------|----------|--------|--------|
| | | | Tot. 96 | Tot. 95 | Avg. 96 | Avg.95 | Tot. 96 | Tot. 95 | Avg.96 | Avg.95 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Thiruvananthapuram | 100000 | 25699645 | 24482871 | 70410 | 67078 | 39820689 | 35582827 | 108098 | 97432 |
| 2. | Quilon | 60000 | 27318801 | 25720320 | 74846 | 70466 | 22500941 | 18890599 | 81646 | 51755 |
| 3. | Alappuzha | 60000 | 8776355 | 8180871 | 24045 | 22413 | 10767928 | 9077946 | 28501 | 24871 |
| 4. | Kottayam | 6000 | 4362446 | 3680378 | 11952 | 10083 | 10787930 | 9201867 | 29556 | 25210 |
| 5. | Emakulam | 100000 | 31125484 | 32761726 | 85275 | 89758 | 33214660 | 31948061 | 90998 | 87528 |
| 6. | Thrissur | 60000 | 15002934 | 14497976 | 41104 | 39720 | 13020713 | 11881741 | 35673 | 32854 |
| 7. | Palghat | 40000 | 24467075 | 21636846 | 67033 | 59279 | 12663670 | 11306828 | 34895 | 30977 |
| 8. | Kannur | 40000 | 17407976 | 19160348 | 47693 | 52494 | 21910632 | 19281235 | 60029 | 52825 |
| 9. | Kozhikoda | 60000 | 8245580 | 9100852 | 22591 | 24933 | 23590060 | 20131195 | 64830 | 55153 |

Source . KCMMF

Appendix -4.10
District-wise Distribution of Fishermen Population in Kerala 1996

| Sl. No. | District | Marine | | | | Inland | | | | Marine and Inland | |
|---------|--------------------|--------|--------|----------|--------|--------|--------|----------|--------|-------------------|--|
| | | Mala | Female | Childran | Total | Mala | Female | Childran | Total | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 1. | Thiruvananthapuram | 48524 | 46980 | 66715 | 162218 | 439 | 425 | 446 | 1310 | 163529 | |
| 2. | Koiam | 29357 | 26878 | 35062 | 81298 | 10675 | 10175 | 12537 | 33888 | 124686 | |
| 3. | Alappuzha | 33739 | 32835 | 41986 | 108360 | 20018 | 19318 | 21353 | 60687 | 189047 | |
| 4. | Pathanamthlita | .. | .. | .. | .. | 351 | 428 | 828 | 1408 | 1408 | |
| 5. | Kottayam | .. | .. | .. | .. | 8018 | 7835 | 8450 | 24301 | 24301 | |
| 6. | Idukki | .. | .. | .. | .. | 15 | 15 | 12 | 42 | 42 | |
| 7. | Emakulam | 22920 | 22190 | 25429 | 70539 | 21370 | 20783 | 20571 | 62724 | 133263 | |
| 8. | Thrissur | 20894 | 21151 | 25827 | 67872 | 6382 | 6270 | 6741 | 19403 | 87275 | |
| 9. | Palakkad | .. | .. | .. | .. | 288 | 317 | 414 | 1019 | 1018 | |
| 10. | Malappuram | 22951 | 23480 | 31413 | 77844 | 1355 | 1348 | 1564 | 42287 | 62111 | |
| 11. | Wayanad | .. | .. | .. | .. | 338 | 314 | 357 | 1009 | 1009 | |
| 12. | Kozhikkode | 30181 | 29088 | 36798 | 96067 | 3732 | 3618 | 4443 | 11793 | 107860 | |
| 13. | Kannur | 18732 | 15890 | 21840 | 54262 | 513 | 500 | 490 | 1503 | 55785 | |
| 14. | Kasaragod | 13718 | 13214 | 15627 | 42558 | 312 | 300 | 314 | 926 | 43485 | |
| State | | 239016 | 231507 | 300487 | 771020 | 73805 | 71847 | 78320 | 223772 | 894792 | |

Source :- Directorate of Fisheries

APPENDIX - 4.11
Details of Crafts in operation in the Marine Sector 1995

| Sl. No. | District | Mechanised | Motorised | Non-Motorised | Total |
|--------------|--------------------|-------------|--------------|---------------|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Thiruvananthapuram | 31 | 3408 | 11832 | 15271 |
| 2. | Kollam | 1127 | 2588 | 1673 | 5388 |
| 3. | Alappuzha | 248 | 3563 | 1589 | 5400 |
| 4. | Ernakulam | 1325 | 792 | 1945 | 4062 |
| 5. | Thrissur | 131 | 889 | 1558 | 2578 |
| 6. | Malappuram | 176 | 1427 | 2655 | 4258 |
| 7. | Kozhikode | 607 | 2234 | 4031 | 6872 |
| 8. | Kannur | 439 | 1088 | 1600 | 3127 |
| 9. | Kasaragod | 122 | 1373 | 1573 | 3068 |
| Total | | 4206 | 17362 | 28456 | 50024 |

Source :- Directorate of Fisheries

APPENDIX 4-12
Average Beach Price of Selected Marine Fishes in Kerala

| Sl. No. | Species | Average Beach Price (Rs./Kg.) | | | | | |
|---------|--------------------|-------------------------------|---------|---------|---------|---------|---------|
| | | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1995-96 | 1995-96 |
| 1. | Elasmobranches | 8.00 | 12.00 | 15.50 | 18.00 | 20.00 | 21.00 |
| 2. | Cat fish | 7.50 | 10.00 | 12.00 | 14.00 | 16.00 | 17.50 |
| 3. | Chirocentrus | .. | .. | .. | .. | .. | .. |
| 4. | Oil Sardine | 5.00 | 7.50 | 11.00 | 13.00 | 15.00 | 16.00 |
| 5. | (b) Other Sardines | .. | .. | .. | .. | .. | .. |
| 6. | Sciaenids | 5.00 | 7.50 | 9.50 | 11.50 | 13.00 | 14.00 |
| 7. | Carangids | 7.50 | 11.50 | 12.50 | 15.00 | 18.00 | 18.50 |
| 8. | Leiognathus | .. | .. | .. | .. | .. | .. |
| 9. | Lactaritus | .. | .. | .. | .. | .. | .. |
| 10. | Pomfrets | .. | .. | .. | .. | .. | .. |
| 11. | Mackerel | 8.50 | 11.50 | 13.00 | 15.50 | 18.00 | 18.50 |
| 12. | Seer Fish | 18.50 | 22.50 | 25.00 | 27.00 | 30.00 | 31.00 |
| 13. | Tunnies | 11.50 | 14.00 | 18.00 | 21.00 | 24.00 | 25.00 |
| 14. | Soles | .. | 5.50 | 6.00 | 8.00 | 10.00 | 12.00 |
| 15. | Cephalopods | .. | 10.50 | 11.00 | 12.00 | 13.50 | 14.00 |
| 16. | Prawn | 32.50 | 36.50 | 38.00 | 43.00 | 48.00 | 49.00 |
| 17. | Miscellaneous | .. | 8.50 | 7.50 | 8.00 | 9.00 | 10.00 |

Source :- Directorate of fisheries

APPENDIX -4.13
Species-wise Inland Fish Production in Kerala from 1992-93 to 1995-96.

(Qty. in tonnes)

| Sl. No. | Species | 1992-93 | | 1993-94 | | 1994-95 | | 1995-96 | | Variation | |
|--------------|----------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|-------------|---------------|
| | | Actual | Percentage | Actual | Percentage | Actual | Percentage | Actual | Percentage | Actual | Percentage |
| 1 | 2 | 3 | 4 | 5 | 9 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1. | Prawns | 10845 | 25.58 | 11306 | 24.86 | 12265 | 25.45 | 11984 | 24.17 | 291 | 14.37 |
| 2. | Etroplus | 4058 | 9.57 | 4313 | 9.48 | 4468 | 9.27 | 4640 | 9.36 | 172 | 9.79 |
| 3. | Murrels | 3798 | 9.85 | 3859 | 9.49 | 4179 | 8.67 | 4386 | 9.84 | 207 | 10.58 |
| 4. | Tilapia | 9143 | 14.49 | 9295 | 13.84 | 6836 | 14.19 | 7347 | 14.82 | 511 | 26.13 |
| 5. | Catfish | 4034 | 9.52 | 4157 | 9.14 | 4546 | 9.43 | 4992 | 9.44 | 138 | 9.95 |
| 6. | Jew Fish | 2280 | 5.38 | 2431 | 5.34 | 2566 | 5.33 | 2652 | 5.35 | 96 | 4.40 |
| 7. | Others | 11234 | 26.50 | 13121 | 28.85 | 13332 | 27.66 | 13895 | 28.02 | 563 | 29.78 |
| Total | | 42380 | 100.00 | 45482 | 100.00 | 48192 | 100.00 | 49588 | 100.00 | 1956 | 100.00 |

Source :- Directorate of fisheries

Appendix -4.14
Species-wise Composition of Marine Fish Landings in Kerala.

(Qty in tonnes)

| Sl. No. | Species | 1991 | 1992 | 1993 | 1994 | 1995 |
|---------|--------------------------------|--------|--------|--------|--------|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Elasmobranches | 3441 | 3323 | 4432 | 5887 | 4109 |
| 2. | Cet fish | 1744 | 1029 | 597 | 499 | 308 |
| 3. | Chirocentrus | 706 | 959 | 1707 | 1460 | 983 |
| 4. | (a) Oil Sardine | 106263 | 54118 | 49675 | 1554 | 13328 |
| | (b) Other Sardine | 23730 | 16967 | 22819 | 16482 | 46131 |
| 5. | Anchovielle | 45273 | 48217 | 49477 | 31710 | 36683 |
| 6. | Thrissocless & Other Clupeoids | 3629 | 33208 | 16190 | 20196 | 14509 |
| 7. | Perches | 41122 | 50159 | 74813 | 60180 | 47620 |
| 8. | Redmulletts | 18624 | 7583 | 2489 | 382 | 174 |
| 9. | Scieenids | 8816 | 15603 | 14657 | 18734 | 9979 |
| 10. | Ribbon Fishes | 2167 | 6162 | 7290 | 15435 | 4641 |
| 11. | Cerangids | 67682 | 12991 | 20725 | 43510 | 13075 |
| 12. | Leiognathus | 5643 | 4480 | 6458 | 4238 | 4005 |
| 13. | Lectaritus | 623 | 675 | 907 | 1135 | 561 |
| 14. | Pomfrets | 1243 | 2601 | 2654 | 3391 | 1675 |
| 15. | Mackerel | 53980 | 37909 | 59172 | 111879 | 78515 |
| 16. | Seer fish | 4600 | 8734 | 6447 | 5837 | 5910 |
| 17. | Tunnies | 13111 | 16219 | 13267 | 14395 | 10977 |
| 18. | Soles | 14496 | 28445 | 20618 | 20999 | 12385 |
| 19. | (a) Prawn | 60318 | 51131 | 48119 | 71871 | 43408 |
| | (b) Lobsster & Crusteceens | 14583 | 17800 | 24797 | 25252 | 13700 |
| 20. | Cephalopods | 19606 | 31424 | 28905 | 38275 | 43942 |
| 21. | Miscellaneous | 52561 | 111005 | 96534 | 57093 | 125030 |
| Total | | 564161 | 56742 | 574739 | 568034 | 531646 |

Source :- Directorate of fisheries

APPENDIX-4.15

NCDC Assisted Integrated Fisheries Development Project - Details of physical and Financial Achievements under phase I,II and III

(Rs. In Lakhs)

| Project Components | Phase I | | Phase II | | Phase III | | Total | |
|-----------------------------------------------------------------------------------|----------|-----------|-------------------------------------------|-----------|-----------|-----------|----------|-----------|
| | physical | Financial | physical | Financial | physical | Financial | physical | Financial |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| I. Inputs | | | | | | | | |
| 1. Crafts | 395 | .. | 406 | .. | 1257 | .. | 2056 | .. |
| 2. OBM Nos | 619 | 378.19 | 616 | 803.68 | 2466 | 2158.39 | 4101 | 3340.26 |
| 3. Webbing (Kg) | 64790 | .. | 148921 | .. | 1771400 | .. | 1985111 | .. |
| 4. OBM service Centres one Regional workshop and one mobile service unit | 2 | 12.38 | .. | .. | .. | .. | .. | 12.38 |
| II. Infrastructure | | | | | | | | |
| Transport end Insulated vens (Nos) | 8 | 8.46 | Vantha Bus-2 Cycles - 10 Autos - 44 | 51.85 | .. | .. | .. | 60.11 |
| III. Extension | .. | 78.15 | .. | 17.29 | .. | 20.66 | .. | 116.10 |
| IV. Training | .. | 8.34 | .. | 9.53 | .. | 11.00 | .. | 28.87 |
| V. Non Formal Education | .. | 4.00 | .. | .. | .. | .. | .. | 4.00 |
| VI. Working Capital | .. | 8.47 | .. | 18.95 | .. | 41.25 | .. | 68.67 |
| VII. Pre-operative Expenses | .. | 30.00 | .. | 10.35 | .. | 38.42 | .. | 78.77 |
| VIII. Physical & Price Conti gencies | .. | 27.85 | Project management | 122.83 | 14084 | 102.67 | .. | 780.45 |
| IX. No. of beneficiaries | 4577 | .. | 7223 | .. | .. | 527.10 | 14084 | 25684 |
| Total | | 555.84 | .. | 1034.26 | .. | 2907.49 | .. | 4497.61 |

Source :- Directorate of fisheries

(OBM - Out Board Motor)

APPENDIX - 4.16
Export of Marine Products from Kerala/India

| Year in tonnes | Kerala | | India | |
|-------------------|--------------------------|--------------------|--------------------------|----------|
| | Quantity Rs. in lakhs | Value in tonnes | Quantity Rs. in lakhs | Value |
| 1982-83 | 32525 | 14147 | 78175 | 36136 |
| 1983-84 | 32840 | 14085 | 92691 | 37302 |
| 1984-85 | 31570 | 14828 | 86147 | 38429 |
| 1985-86 | 29580 | 13803 | 83651 | 39800 |
| 1986-87 | 33906 | 16457 | 85846 | 46067 |
| 1987-88 | 35576 | 18394 | 87179 | 53120 |
| 1988-89 | 45614 | 22131 | 98777 | 59785 |
| 1989-90 | 47194 | 24081 | 110843 | 63499 |
| 1990-91 | 50997 | 31379 | 139419 | 89337 |
| 1991-92 | 58743 | 44446 | 171820 | 137589 |
| 1992-93 | 49094 | 41425 | 208602 | 176743 |
| 1993-94 | 63809 | 62153 | 243960 | 250362 |
| 1994-95 | 74578 | 81496 | 307337 | 357527 |
| 1995-96 | 78896 | 85690 | 296277 | 35011100 |

Source :- Directorate of fisheries

APPENDIX -4.17
Details of Fishermen Co-operatives in Kerala

| SL No | Particulars | Total No. of Societies. | Total No. of Membership | Paid up Share Capital. |
|--------------|----------------------------------------------------------------------|-------------------------|-------------------------|------------------------|
| 1 | 2 | 3 | 4 | 5 |
| 1. | Appex Federation | 1 | 18 | 10000000 |
| 2. | District Fishermen Development and Welfare Co-operative Societies. | 5 | 25 | 2500000 |
| 3. | Marine Fishermen's Development and welfare co-operative societies. | 292 | 156080 | 4090000 |
| 4. | Inland Fishermen's Development and Welfare co-operative societies | 24 | 4249 | 42330 |
| 5. | Harijan/Girijan Fishermen Development Welfare co-operative Societies | 58 | 11184 | 31610335 |
| 6. | Primary Co-operative Societies | 17 | .. | .. |
| 7. | Matsya Ulpadaka, Matsyeevesaye Co-operative Societies. | 26 | 7924 | 3406930 |
| 8. | Others | 5 | 812 | 84519 |
| Total | | 428 | 115957 | 51734114 |

Source :- Directorate of fisheries

Details of Fisheries works under Harbour Engineering Department

| Sl.No. | Name of Project | Estimated Cost | | Year of starting | Year of completion targeted | Expenditure upto 3/96 (lakhs) | Remarks (Present Stage) |
|----------------------------------------------------|------------------------------------------------------|------------------------|------------------------------|----------------------|-----------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Original cost | Revised cost Rs. in lakhs | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| A. Fisher's Harbours | | | | | | | |
| 1. | Vizhinjam Fishery Harbour State - I, II & III stages | 173.00 | 208.00 1100.00 1585.00 | 1962 1980 1980 | 1980 1997 1988 | 932.62 | Completed Construction of Wharf, Auction hall & Gear shed are in progress The work almost completed and harbour except 100m wharf partially commissioned. Balance portion of 98 m wharf at Sakthikulangara side not commenced for want of land. |
| 2. | Neendakara Fishery Harbour | 370.00 | 622.00 | 1980 | 1988 | 726.05 | The work almost completed and harbour except 100m wharf partially commissioned. Balance portion of 98 m wharf at Sakthikulangara side not commenced for want of land. |
| 3. | Thangassery Fishery Harbour | 1411-569.50 1980.50 | Nil | 1991 | 1997 | 1330.00 | Work in progress |
| 4. | Munambam Fishery Harbour | 710.00 | 1244.00 | 1991 | 1997 | 964.97 | Work in progress |
| 5. | Puthiyappa Fishery Harbour | 527.00 | 962.50 | 1988 | 1996 | 994.36 | Work almost completed and the scheme commissioned on 2.2.96 |
| 6. | Chombal Fishery Harbour | 556.00 | Nil | 1992 | 1997 | 161.53 | Work in progress |
| 7. | Moplabay Fishery Harbour | 584.00 | Nil | 1992 | 1997 | 259.21 | Work in progress |
| 8. | Kayamkulam Fishery Harbour | 624.60 | Nil | 1996 | 1998 | 12.49 | Works are in preliminary stage |
| B. Fish Landing Centre for Mechanised Boats | | | | | | | |
| 1. | New Mahe | 28.43 | - | 1988 | 1993 | 41.11 | Work completed and commissioned |
| 2. | Thottappally | 25.27 | - | 1984 | 1994 | 53.51 | |
| 3. | Palacode | 15.00 | - | 1986 | | 18.54 | Land acquisition, Water Supply arrangements, Cantain & Provision store, security room, electrification, approach road etc. were completed. |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------------------------------------------|--------------------------------|-----------------|-------|------|------|-------|-------------------------------|
| 4. | Cheruathoor | 18.43 | 29.00 | 1982 | 1994 | 29.37 | Completed & Commissioned |
| 5. | Dharmadam | 20.95 | - | 1986 | * | 25.49 | Commissioned |
| 8. | South Paravoor | 24.94 | - | 1989 | * | 3.49 | Scheme deferred |
| 7. | Chettuveli | 19.50 | - | 1989 | 1994 | 30.97 | Commissioned |
| 8. | Kesaragod | 13.44 | 38.56 | - | 1988 | 40.72 | Work completed |
| 9. | Munakkakavu | 10.25 | - | 1982 | 1986 | 23.74 | Work completed |
| 10. | Neeswaram | 10.25 | 30.73 | 1981 | 1985 | 28.15 | Work completed |
| C. Fish Landing Centre for Traditional Fishermen | | | | | | | |
| 1. | Vizhinjam South | 18.70 | - | 1988 | - | 5.20 | Work terminated |
| 2. | Vizhinjam South | 19.10 | - | 1988 | - | 24.52 | Partially completed |
| 3. | Vallikunnu | 17.90 | - | 1985 | - | 19.41 | Commissioned |
| 4. | Vellayil beach | 22.00 | - | 1988 | - | 33.13 | Commissioned |
| 5. | Chalil Gopalepettah | 25.00 | - | 1985 | - | 32.52 | Commissioned |
| 8. | Quilon Port | 22.00 | - | - | - | Nil | Scheme deferred |
| 7. | Arthungal | 32.22 | - | - | - | 21.34 | Commissioned |
| 8. | Quilandy | 23.00 | - | - | - | 22.15 | Commissioned |
| 9. | Punnappra | 47.25 | - | - | - | - | work are in preliminary stage |
| | | (including L.A) | - | - | - | - | work are in preliminary stage |
| 10. | Kattoor - Pollathai | 59.00 | - | - | - | 16.04 | Work is in preliminary stage |
| D. | Setting up of Nurseries | - | - | - | - | 6.76 | Completed |

Source : Department of Harbour Engineering

APPENDIX 4.19
Details of Welfare and Relief Schemes implemented by the
Kerala Fishermen's Welfare Fund Board

| Sl. No. | Details of Schemes | Year of starting | Rete of assistance | No. of beneficiaries during 95-96 | Amount paid 95-96 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------|-----------------------------------|-------------------|
| 1 | 2 | 3 | 4 | 5a | 5b |
| 1 | GROUP INSURANCE SCHEME | | | | |
| | (A) Accidental death (started on 10.9.86) | 10.9.86 | 15000.00 | 76 | 1896000 |
| | (b) Permanant Total Disability | 10.9.90 | 21000.00 | 2 | 50000 |
| | (c) Permanant Partial Disability | 10.9.92 | 25000.00 | 7 | 87500 |
| | Total | | | 85 | 2033500 |
| 2 | Death While Fishing or Immediately there after not due to accident (started on 10.9.86) | 10.9.96 | 15000.00 | 59 | 885000 |
| 3 | Financial assistance for the marriage of daughters of Fishermen (Started on 1.1.87) | | LoanGrant 1400 1200 200 | | |
| | (a) Loan without interest | 1.1.87 | 1500 1200 300 | 10 | 12000 |
| | (b) Grant(Non refundable) | 5.5.89 | 1500 Nil 1500 | 998 | 1485000 |
| | Total | 1.4.95 | | 1008 | 1497000 |
| 4 | Financial assistance for the death of dependents of Fishermen (started on 1.1.87) | 1.1.87 | 250 | | |
| | | 1.1.91 | 300 | 422 | 126600 |
| 5 | Fishermen Pension(started on 2.10.86) | 2.87 | 75 | | |
| | | 7.92 | 85 | 27679 | 21901619 |
| 6 | Financial assistance for Temporary Disability of Fishermen due to Accident (started on 4.4.87) | 4.4.87 | 300 | | |
| | | 1.1.91 | 500 | 805 | 267870 |
| 7 | Hut insurance 50% subsidy (Started on 1.4.87) Compensation paid for dameges. | 1.4.87 | | | |
| 8 | (a) Insurance of Country Craft/ Cettamaram No subsidy(started on 1.4.87) (b) Compensation paid for dameges under the scheme | 1.4.87 | | | |
| 9 | Financial assistance for the expenses for death of Fishermen(started on 4.4.87) | 4.4.87 | 250 | 198 | 198000 |
| | | 1.1.91 | 500 | | |
| 10 | (a) Cesh Award to Fishermen students who secured highest marks In S.S.L.C. Exam.(started on 7.5.90) | 7.5.90 | 2000 | 13 | 16000 |
| | | 3.94 | 3000 | | |
| | (b) Scholarship for continuous study who secured 1st end II nd prize in the State in S.S.L.C for 2 years | | 2000 | | |
| | | | 1000 | 4 | 4000 |

| 1 | 2 | 3 | 4 | 5a | 5b |
|----|------------------------------------------------------------------------------------------------------|------------------|---------------|------|---------|
| 11 | Financial assistance to who go for Sterilisation Operation (started on 1.1.91) | 1.1.91 9.4.94 | 250 500 | 399 | 193750 |
| 12 | (a) Financial assistance for Fatal Disease (started on 1.4.95) | 1.4.95 | 25000 | 19 | 235920 |
| | (b) Pension to irrecoverable patients | | 12000 5000 | 6 | 2400 |
| 13 | Special Schemes | | | | |
| | 1. Financial assistance to the fishermen of inland area who affected Fish Disease(1991-92) (1992-93) | | | | |
| | 2. Free ration to fishermen and workers affected by loan on bottom trawling in 1989 | | | | |
| | 3. Financial assistance to the Victim of Fire Accident | | | | |
| | 4. Special cases sanctioned by the Board for Death, Disability, Medical Treatment etc. | | | 59 | 569500 |
| 14 | Sanitation scheme | 8.95 | 2500 | 1000 | 2500000 |
| 15 | Eye camp | 10.96 | | | |

Source:- Directorate of Fisheries

APPENDIX 4.20
Division Wise Area of Forests in Kerala(Provisional)
Area as on 31-3-1996 (Sq.Km.)

| Sl. No. | Division | Reserve Forests | Proposed for Reserve Forests | Vested Forests | Total |
|---------------------------------|--------------------|-----------------|------------------------------|----------------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| A. TERRITORIAL DIVISIONS | | | | | |
| 1 | Thiruvananthapuram | 360.0790 | 5.8253 | 3.9750 | 369.8793 |
| 2 | Thenmala | 294.3207 | - | 12.1654 | 306.4861 |
| 3 | Punalur | 280.0507 | - | 0.1690 | 280.2197 |
| 4 | Konni | 320.6430 | 11.0210 | - | 331.6640 |
| 5 | Ranni | 1050.2894 | 7.1670 | 1.6110 | 1059.0674 |
| 6 | Achankovil | 268.7940 | - | 0.2060 | 269.0000 |
| 7 | Munnar | 662.7502 | 47.2560 | 5.8349 | 715.8411 |
| 8 | Kottayam | 655.4860 | 5.2570 | 31.4090 | 692.1520 |
| 9 | Kothamangalam | 316.8650 | - | 0.1523 | 317.0173 |
| 10 | Malayattor | 617.2411 | 0.5248 | - | 617.7659 |
| 11 | Vazhachal | 413.9438 | - | - | 413.9438 |
| 12 | Chalakyudy | 354.7098 | - | - | 354.7098 |
| 13 | Thrissur | 331.0181 | - | 6.3430 | 337.3611 |
| 14 | Nenmara | 205.5173 | - | 134.3299 | 339.8472 |
| 15 | Palakkad | 73.4100 | - | 165.2937 | 238.7037 |
| 16 | Mannarkkad | 209.9800 | - | 456.7731 | 666.7531 |
| 17 | Nilambur South | 267.5110 | - | 97.9298 | 365.4408 |
| 18 | Nilambur North | 57.9196 | 0.0171 | 336.0219 | 393.9586 |
| 19 | Kozhikode | - | 86.1388 | 205.0846 | 291.2234 |
| 20 | Waynad South | 67.6005 | 5.3030 | 252.4400 | 325.3435 |
| 21 | Waynad North | 133.9031 | 15.0644 | 66.9189 | 215.8864 |
| 22 | Kannur | 206.5127 | - | 83.8149 | 290.3276 |
| Total | | 7148.5450 | 183.5744 | 1860.4724 | 9192.5918 |
| B. WILD LIFE DIVISIONS | | | | | |
| 1 | Thiruvananthapuram | 181.00 | - | - | 181.0000 |
| 2 | Agasthyavanam | 30.4470 | 0.6730 | - | 31.1200 |
| 3 | Idukki | 289.6020 | - | - | 289.6020 |
| 4 | Thekkady | 777.0000 | 0.5438 | - | 777.5438 |
| 5 | Parambikulam | 274.1408 | - | - | 274.1408 |
| 6 | Silent Valley | 89.5165 | - | - | 89.5165 |
| 7 | Wayanad | 366.9074 | - | 32.6428 | 399.5502 |
| Total B | | 2008.6137 | 1.2168 | 32.6428 | 2042.4733 |
| Total A | | 7148.5450 | 183.5744 | 1860.4724 | 9192.5918 |
| Grand Total(A+B) | | 9157.1587 | 184.7912 | 1893.1152 | 11235.0651 |

Source:- Department of forest

APPENDIX 4.21
Species Wise Area under Forest plantation 1995-96
(Area in Hectare)

| Sl. No. | Name of Species | 1981 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1998 | %to total as on (Provisional)31.3.96 |
|---------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | Teak | 75038 | 76502 | 76202 | 75355 | 74914 | 74947 | 75320 | 76288 | 48.07 |
| 2 | Eucalyptus | 31323 | 31609 | 30675 | 29923 | 29633 | 29066 | 28745 | 29818 | 18.79 |
| 3 | Softwood | 22897 | 1239 | 1239 | 919 | 895 | 787 | 781 | 758 | 0.48 |
| 4 | Mixed Plantation | 1189 | 30660 | 31490 | 32887 | 33999 | 34528 | 35156 | 35692 | 22.49 |
| 5 | Cashew | 4955 | 3784 | 3784 | 4558 | 4570 | 4525 | 4471 | 4470 | 2.82 |
| 8 | Bamboo | 977 | 404 | 509 | 646 | 996 | 1036 | 1124 | 1212 | 0.76 |
| 7 | Wattle | 1001 | 3247 | 3524 | 3735 | 3890 | 3811 | 3811 | 3336 | 2.10 |
| 6 | Hardwood | 2437 | 849 | 849 | 849 | 859 | 847 | 863 | 863 | 0.54 |
| 9 | Fuelwood | 1859 | 86 | 122 | 96 | 138 | 165 | 165 | 165 | 0.10 |
| 10 | Pepper | - | 314 | 314 | 408 | 459 | 439 | 439 | 454 | 0.29 |
| 11 | Pine | 429 | 449 | 452 | 452 | 452 | 452 | 452 | 897 | 0.57 |
| 12 | Mahogany | 247 | 170 | 170 | 169 | 169 | 189 | 169 | 153 | 0.10 |
| 13 | Rose wood | 145 | 149 | 146 | 155 | 155 | 164 | 263 | 267 | 0.17 |
| 14 | Balsa | 120 | 97 | 97 | 93 | 93 | 93 | 93 | 93 | 0.06 |
| 15 | Cardamom | 20 | - | - | - | - | - | - | - | - |
| 18 | Sandal wood | 9 | 12 | 12 | 11 | 11 | 11 | 21 | 166 | 0.11 |
| 17 | Kongu | 20 | - | - | - | - | - | - | - | - |
| 18 | Zylosium | - | - | - | - | - | - | - | - | - |
| 19 | Others | 574 | 3441 | 3563 | 3502 | 3855 | 4034 | 3677 | 4050 | 2.55 |
| | Total | 143220 | 153012 | 153146 | 153758 | 155088 | 155072 | 155750 | 158682 | 100.00 |

Source:- Department of Forest

APPENDIX 4.22
Forest Revenue in Kerala

| Sl. No. | Item | Sale proceeds(Rs.in lakhs) | | | | | Increase or decrease actual (Rs.in lakhs) | Percentage |
|---------|--------------------------------|----------------------------|----------------|-----------------|-----------------|-----------------|-------------------------------------------|---------------|
| 1 | 2 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-98 | 8 | 9 |
| | A. Revenue from Forests | | | | | | | |
| 1 | Timber | 4631.11 | 6794.63 | 9043.50 | 11847.95 | 13890.86 | +2042.91 | +17.24 |
| 2 | Firewood & Charcoal | 65.55 | 89.30 | 100.89 | 107.38 | 261.01 | +153.63 | +143.07 |
| 3 | Live stock | 1.40 | 1.48 | 7.83 | 3.14 | 1.64 | -1.50 | -47.77 |
| 4 | Others | 593.54 | 654.02 | 683.74 | 1294.49 | 1327.06 | +32.57 | +2.51 |
| | Sub Total(A) | 5291.60 | 7539.43 | 9835.78 | 13252.96 | 15480.57 | +2227.61 | +18.80 |
| | B. Other receipts | 286.71 | 348.68 | 483.45 | 462.20 | 610.74 | +148.54 | +32.13 |
| | C. Total (A+B) | 5578.31 | 7888.11 | 10319.21 | 13715.16 | 16091.31 | +2376.15 | +17.32 |
| | D. Refunds | 14.62 | 16.72 | 23.37 | 26.66 | 14.77 | -11.89 | -44.59 |
| | E. Net Revenue (C-D) | 5563.69 | 7871.39 | 10295.84 | 13688.50 | 16076.54 | +2388.04 | +17.44 |

Source:- Department of Forest

APPENDIX 4.23
Production of Major Forest Produce

| Sl. | Item | Unit | 1992-93 | 1993-94 | 1994-95 | 1995-96 (Provisional) | Actual increase or decrease over the year |
|-----|----------------------------|------|----------|----------|----------|--------------------------|-------------------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Timber(Round logs) | Cum | 51554 | 78691 | 123501 | 61430 | -62071 |
| 2 | Timber(Round poles) | Nos | 867932 | 725231 | 779507 | 361179 | -418328 |
| 3 | Timber (Swan and sward) | Cum | 52 | 226 | 10 | 30 | +20 |
| 4 | Fire wood | MT | 24328 | 33409 | 82888 | 45336 | -37552 |
| 5 | Charcoal | Kg | 1244 | 705 | 293250 | - | -293250 |
| 6 | Cardomom | Kg | 4109 | 1459 | 4379 | 3155 | -1224 |
| 7 | Honey | Kg | 38285 | 65655 | 37512 | 74787 | +37275 |
| 8 | Reeds | Nos | 41586809 | 64783879 | 57647490 | 49615070 | -8032420 |
| 9 | Bamboo | Nos | 1077480 | 1870194 | 1596297 | 1339741 | -256556 |
| 10 | Jungle wood poles | Nos | 433 | 174 | 5282 | 64 | -5218 |
| 11 | Sandal wood | Kg | 147395 | 218424 | 112726 | 133847 | +21121 |

Source: - Department of Forest

APPENDIX 4.24

Agency - Wise Disbursement of Refinance Assistance by NABARD in Kerala

(Rs. in crores)

| Sl. No. | Agencies | 1993-94 | | 1994-95 | | 1995-96 | |
|------------|------------------|---------|--------|---------|--------|---------|--------|
| | | Kerala | % | Kerala | % | Kerala | % |
| 1 | KSCARDB | 54.00 | 43.11 | 51.86 | 41.11 | 78.50 | 61.84 |
| 2 | Commercial Bank | 39.96 | 31.90 | 43.48 | 34.46 | 23.54 | 18.54 |
| 3 | State Co-op.Bank | 19.07 | 15.22 | 18.73 | 14.85 | 12.24 | 9.64 |
| 4 | RRB | 12.22 | 9.75 | 12.08 | 9.58 | 12.66 | 9.97 |
| Total | | 125.25 | 100.00 | 126.15 | 100.00 | 126.94 | 100.00 |

Source:- NABARD

KSCARDB - Kerala State co-operative Agricultural and Rural Development Bank
RRB - Regional rural Bank

APPENDIX 4.25
Purpose - Wise Disbursement by NABARD

(Rs. in crores)

| Sl. No. | Purpose | 1993-94 | | 1994-95 | | 1995-96 | |
|---------|-----------------------------|-----------|--------|-----------|--------|-----------|--------|
| | | Refinance | % | Refinance | % | Refinance | % |
| 1 | Plantation/ Horticulture | 23.27 | 18.57 | 22.93 | 18.20 | 21.87 | 17.23 |
| 2 | Minor Irrigation/ REC | 20.07 | 16.02 | 15.91 | 12.60 | 22.93 | 18.06 |
| 3 | Land Development/ Bank | 1.42 | 1.13 | 2.69 | 2.10 | 3.97 | 3.13 |
| 4 | Farm Mechanisation | 4.30 | 3.43 | 5.09 | 4.00 | 3.78 | 2.98 |
| 5 | Fisheries | 2.36 | 1.88 | 1.52 | 1.20 | 2.06 | 1.62 |
| 6 | Dairy Development | 7.64 | 6.10 | 5.14 | 4.10 | 6.74 | 5.31 |
| 7 | Poultry | 1.80 | 1.43 | 2.09 | 1.70 | 3.19 | 2.51 |
| 8 | I.R.D.P | - | - | 14.52 | 11.50 | 4.97 | 3.92 |
| 9 | Others | 14.05 | 12.29 | 5.75 | 4.60 | 5.57 | 4.39 |
| 10 | Non Farm Sector | 50.34 | 40.15 | 50.51 | 40.00 | 51.86 | 40.85 |
| Total | | 125.25 | 100.00 | 126.15 | 100.00 | 128.94 | 100.00 |

Source:- NABARD

APPENDIX 4.26
Selected Indicators of the Credit Operations of the
Primary Agricultural Credit Societies

| Sl. No. | Indicators | As on 30-6-1993 | As on 30-6-1994 |
|---------|------------------------------------------|--------------------|--------------------|
| 1 | 2 | 3 | 4 |
| 1 | No. of societies | 1,580 | 1,583 |
| 2 | No. of Members (Lakhs) | 100.67 | 102.85 |
| | of which SC | 9.63 | 10.24 |
| | of which ST | 0.71 | 0.77 |
| 3 | Paid up Share Capital(Rs. Lakhs) | 11,577 | 13,478 |
| 4 | Reserves | 10,037 | 11,193 |
| 5 | Deposits | 1,50,647 | 1,89,123 |
| 6 | Working Capital | 2,67,909 | 3,24,413 |
| 7 | Loans Issued | 1,49,844 | 2,01,096 |
| | Short Term | 1,20,230 | 1,57,337 |
| | Medium Term | 25,144 | 37,112 |
| | Long Term | 4,470 | 6,647 |
| 8 | Loan Outstanding | 1,49,480 | 1,84,049 |
| 9 | Loan Overdue | 32,274 | 30,515 |
| 10 | S.T. Loan for Agricultural purpose alone | 41,459 | 53,516 |
| 11 | S.T. Loan for non Agricultural purposes | 78,771 | 1,03,821 |
| 12 | M.T. Loan for Agricultural purposes | 8,562 | 12,448 |
| 13 | M.T. Loan for nonAgricultural purposes | 16,582 | 24,664 |
| 14 | L.T. Loan for Agricultural purposes | 3,992 | 5,841 |
| 15 | L.T. Loan for non Agricultural purposes | 478 | 806 |
| 16 | Value of Fertilizers sold | 7,537 | 8,173 |
| 17 | Value of Agricultural Produce Marketted | 5,578 | 9,351 |
| 18 | Dormant Societies(Nos.) | 24 | 17 |
| 19 | Societies on Profit | 663 | 764 |
| 20 | Profit Amount | 1,698 | 2,590 |
| 21 | Societies on loss(No.) | 874 | 784 |
| 22 | Societies with out Profit or Loss(No.) | 43 | 35 |
| 23 | Socieites having Paid Secretaries(No.) | 1,548 | 1,553 |
| 24 | Socieites having own godowns(No.) | 1,427 | 1,432 |
| 25 | Societies having Hired godowns(No.) | 452 | 474 |
| 26 | Viable Societies(No.) | 1,477 | 1487 |

Source:- Registrar of Co-operative Societies, Kerala.

S.T - Short term
M.T - Medium term
L.T - Long term

APPENDIX 4.27
**Selected Indicators of the performance of Agricultural
 Credit Societies**

| Sl. No. | Indicators | Unit | As on 30-6.1993 | As on 30-6-1994 |
|---------|---------------------------------------------|------------|-----------------|-----------------|
| 1 | 2 | 3 | 4 | 5 |
| 1 | Average membership per society | No. | 6,372 | 6,560 |
| 2 | Average share Capital per Society | (Rs.Lakhs) | 7.33 | 8.51 |
| 3 | Average Deposit per Society | " | 95.35 | 119.47 |
| 4 | Average deposit per Member | Rs. | 1,496 | 1,821 |
| 5 | Average Working Capital per Society | (Rs.Lakhs) | 169.56 | 205.00 |
| 6 | Average Loan per member | Rs. | 1,488 | 1,936 |
| 7 | Percentage of Borrowing Members to total | | 40.61% | 43% |
| 8 | Average Loan advanced for Advancing Society | (Rs.Lakhs) | 99.56 | 128.00 |
| 9 | Average Loan Advanced per Borrowing Member | Rs. | 3,665 | 4,552 |
| 10 | Percentage of overdue to Out standing | | 21.59% | 17% |
| 11 | Percentage of overdue to Demand | | 20.66% | 15% |

Source:- Registrar of Corporate Societies, Kerala.

APPENDIX 4.28
Ordinary Loan Advanced by KSCARD Bank Ltd.

(Rs.in Lakhs)

| Sl. No. | Purpose | Year | | | |
|--------------|-----------------------------------|----------------|----------------|----------------|----------------|
| | | 1992-93 | 1993-94 | 1994-95 | 1995-96 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Minor Irrigation | 26.52 | 14.15 | 21.05 | 0.21 |
| 2 | Cattleshed, farm house and godown | 278.38 | 220.97 | 309.71 | 492.26 |
| 3 | Plantation | 107.21 | 72.08 | 53.44 | 55.96 |
| 4 | Levelling, Bunding (L.D) | 625.20 | 730.45 | 654.47 | 420.61 |
| 5 | Others | 205.92 | 142.71 | 13.62 | 91.66 |
| 8 | Renovation of wells/tanks | -- | -- | -- | 1.61 |
| 7 | Pumpsets | -- | -- | -- | 0.37 |
| 8 | Animal Husbandry | -- | -- | 13.62 | 4.19 |
| Total | | 1243.23 | 1180.36 | 1065.91 | 1066.87 |

Source:- KSCARD Bank Ltd.

APPENDIX 4.29
Scheme loans advanced by KSCARD Bank Ltd. at Primary level

(Rs.in Lakhs)

| Sl. No. | Name of Schemes | Year | | | |
|---------|-----------------------|---------|---------|---------|---------|
| | | 1992-93 | 1993-94 | 1994-95 | 1995-96 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Minor irrigation | 597.63 | 630.70 | 883.63 | 1304.09 |
| 2 | Plantation | 1396.58 | 1814.06 | 2245.33 | 2520.58 |
| 3 | Agriculture Machinery | 354.83 | 362.98 | 464.94 | 831.73 |
| 4 | Dairy | 163.54 | 121.94 | 264.02 | 714.38 |
| 5 | Poultry | 122.51 | 142.94 | 270.22 | 399.80 |
| 6 | Fisheries | 40.20 | 58.32 | 85.56 | 80.08 |
| 7 | Sheep/Goat/Piggery | 4.24 | 1.81 | 12.45 | 105.08 |
| 8 | Bullock/Bullock cart | -- | -- | -- | -- |
| 9 | Land development | 1.28 | 3.45 | 6.26 | 48.24 |
| Total | | 2771.35 | 3175.00 | 4559.73 | 6790.00 |

Source:- KSCARD Bank Ltd.

APPENDIX 4.30
Fund flow from NCDC as on 31-03-1996

(Rs.in Lakhs)

| Sl. No. | Programme | Amount released |
|---------|--------------------------------------------------------------------------------|-----------------|
| 1 | Marketing & Inputs | 24.0798 |
| 2 | Storage | 10.6819 |
| 3 | Agro Processing | 79.3934 |
| 4 | Weaker Sections (SC/ST, Coir, Handlooms, Fisheries, poultry etc.) | 62.1663 |
| 5 | Rural Consumer | 4.1255 |
| 6 | Promotional and Development Programmes | 2.0303 |
| 7 | Integrated Co-operative Development Project in selected Districts (ICDP) | 25.2121 |
| Total | | 207.6892 |

Source:- NCDC

APPENDIX 4.31
Loan Advance and Debentures Floated by K.S.C.A.R.D Bank Ltd.

(Rs.in Lakhs)

| year | Loan Advanced | | | | Debeture Floated | | | |
|-----------|---------------|---------|-------|-------|------------------|--------|-------|---------|
| | Ordinary | Schemes | NFS | Ruel | Ordinary | Scheme | NFS | Housing |
| 1 1988-89 | 10.78 | 14.48 | 16.23 | - | 11.30 | 18.98 | 14.38 | -- |
| 2 1989-90 | 14.44 | 23.11 | 6.08 | 8.44 | 14.15 | 27.81 | 5.20 | .. |
| 3 1990-91 | 12.52 | 24.86 | 9.35 | 34.35 | 12.20 | 22.76 | 9.38 | 40.00 |
| 4 1991-92 | 11.44 | 27.62 | 10.18 | 17.29 | 11.00 | 23.05 | 9.17 | 10.53 |
| 5 1992-93 | 12.43 | 27.25 | 18.45 | 11.35 | 12.40 | 24.74 | 17.75 | 9.65 |
| 6 1993-94 | 11.80 | 31.75 | 27.64 | 13.71 | 11.50 | 30.65 | 26.92 | 24.32 |
| 7 1994-95 | 10.83 | 45.60 | 30.77 | 24.31 | 10.00 | 30.46 | 25.07 | 14.86 |
| 8 1995-96 | 10.67 | 67.90 | 39.55 | 36.55 | 11.00 | 45.79 | 37.65 | 40.53 |

Source;- The Kerala State Co-operative Agricultural and Rural Development Bank Ltd.

APPENDIX 4.32
National Co-operative Development Corporation
Release of fund during the last three years

| (Rs.in Lakhs) | | | | |
|---------------|---------------------------------------------------|-----------------|-----------------|-----------------|
| Sl. No. | Name of Scheme | 1993-94 | 1994-95 | 1995-96 |
| 1 | <i>Marketing co-operatives</i> | | | |
| | a) Margin Money to Federation | 125.00 | 218.00 | 197.00 |
| | b) Share Capital to PAMS | 12.00 | 39.50 | 26.50 |
| 2 | Agro-Custom hiring cum Service Centre for RAIDCO | - | - | 8.80 |
| 3 | Processing units-Rubber | 63.18 | 50.09 | 50.87 |
| 4 | Storage | -- | 10.80 | 67.219 |
| 5 | Fisheries-Marine | 560.84 | 837.082 | 697.712 |
| 6 | Coir Co-operatives | 222.858 | 547.692 | 542.558 |
| 7 | Handloom Co-operatives | -- | 5.934 | 115.887 |
| 8 | Spinning Mills | -- | -- | -- |
| 9 | SC/ST Co-operatives | -- | 10.93 | 25.75 |
| 10 | Suger Factory | -- | 26.00 | 78.00 |
| 11 | Computerisation | -- | 6.00 | 6.698 |
| 12 | Tech & Promo Cell | -- | -- | 3.077 |
| 13 | Project Reports Study etc | -- | 0.985 | 4.900 |
| | <i>Others</i> | | | |
| 14 | EEC-Coconut Development Project (Kerafed Project) | 737.814 | 1714.254 | - |
| 15 | INTE.Co-operative Development Project (I.C.D.P) | 593.683 | 336.523 | 564.416 |
| 16 | Consumer Scheme | -- | -- | 46.00 |
| 17 | Student Stores | 2.25 | 5.85 | 0.15 |
| | Total | 2317.585 | 3809.636 | 2433.116 |

Source : NCDC

PAMS - Primary Agricultural Marketing Societies

Appendix-5.1
Project-wise details of Completed Projects

(Rs.lakhs)

| Sl. No. | Name of Project | Estimated Cost | | Cost Escalation(%) | Physical Net | Target(Ha) | | Physical Avhiavemant(Ha) | |
|---------|-----------------|----------------|---------|--------------------|--------------|------------|-------|--------------------------|--|
| | | Original | Revised | | | Gross | Nat | Gross | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 1 | Chalakydy | 188 | 188.25 | 0.13 | 26680 | 39380 | 18530 | 37258 | |
| 2 | Peechi | 235 | 235.00 | 0.00 | 17555 | 28080 | 15282 | 23718 | |
| 3 | Malampuzha | 388 | 580.00 | 49.48 | 29463 | 42090 | 19802 | 42098 | |
| 4 | Neyyar | 248 | 461.00 | 85.89 | 16042 | 17952 | 8300 | 18716 | |
| 5 | Pathundy | 234 | 234.25 | 0.11 | 8792 | 10930 | 4685 | 10046 | |
| 8 | Gayathry | 220 | 220.00 | 0.00 | 7651 | 10930 | 4880 | 10114 | |
| 7 | Walayar | 92 | 131.66 | 43.11 | 4536 | 6470 | 3752 | 6503 | |
| 8 | Vazhani | 100 | 100.00 | 0.00 | 3565 | 7130 | 2113 | 4226 | |
| 9 | Mangalam | 45 | 106.00 | 135.55 | 4816 | 8880 | 3313 | 6608 | |
| 10 | Cheerakuzhi | 91 | 91.00 | 0.00 | 2268 | 2828 | 952 | 1846 | |
| 11 | Periyarvally | 383 | 6300.00 | 1544.91 | 32800 | 85600 | 30567 | 79780 | |
| 12 | Chitturpuzha | 106 | 2080.00 | 1863.00 | 15700 | 29202 | 16102 | 29950 | |
| 13 | Kuttiyadi | 496 | 5500.00 | 1009.00 | 14570 | 35850 | 14111 | 34710 | |
| 14 | Pamba | 348 | 6340.00 | 1722.00 | 21135 | 49458 | 20710 | 48480 | |

Appendix-5.2

Physical and Financial Achievement Under Minor Irrigation Programme

(Rs.lakhs)

| Sl. No. | Item | Area brought Under Irrigation during 1995-96(Ha) | | Cumulative Area brought under Irrigation till 3/96(Ha) | | Expenditure during 1995-96 |
|---------|----------------------------------------|--------------------------------------------------|--------------|--------------------------------------------------------|---------------|----------------------------|
| | | Nat | Gross | Nat | Gross | |
| | | | | | | |
| 1 | Minor Irrigation | | | | | |
| | Class I | 3570 | 5355 | 34791 | 52186 | 713.957 |
| | Class II | 2780 | 2780 | 77922 | 77922 | 555.836 |
| 2 | Lift Irrigation | 1236 | 1854 | 32849 | 49274 | 388.50 |
| 3 | Repairs to Minor Irrigation structures | - | - | - | - | 546.758 |
| 4 | Community Irrigation | - | - | 4003 | 4003 | - |
| 5 | Jaladhara Padhathy | 2640 | 2640 | 5051 | 5051 | 528.013 |
| 8 | Special Component Plan | 495 | 495 | 4521 | 4521 | 149.343 |
| 7 | Tribal Sub plan | 249 | 249 | 2196 | 2198 | 74.965 |
| 8 | Janakeeya Jalasechana Padhathy | - | - | - | - | 1.556 |
| 9 | Investigation | - | - | - | - | 0.825 |
| | Total | 10970 | 13373 | 178238 | 210058 | 2879.753 |

Appendix-5.3
Physical Achievement Under Command Area Programmes

| No. | Item | unit | Achievement During | | | Cumulative Achievement till the end of 3/96 |
|-----|------------------------------------------------------------|------|--------------------|---------|---------|---------------------------------------------|
| | | | 1993-94 | 1994-95 | 1995-96 | |
| 1 | Construction of field channels | Ha | 25562 | 17991 | 17655 | 157209 |
| 2 | Construction of field drains | He | -- | -- | -- | 7883 |
| 3 | Werabandhi works | He | 13463 | 11117 | 3983 | 123439 |
| 4 | Training Programmes and Seminars for farmers | No | 303 | 291 | 309 | 2498 |
| 5 | Adaptive trails | No | 1911 | 2049 | 1814 | 20953 |
| 8 | Large scale demonstration | He | 7738 | 7620 | 8709 | 39930 |
| 7 | Subsidy to small and marginal farmers | No. | 724 | 452 | 312 | 1935 |
| 8 | Beneficiary Farmer's Associations organised and registered | No. | 479 | 299 | 145 | 3577 |
| 9 | Detailed Soil survey Conducted | He | 1700 | 700 | -- | 35174 |
| 10 | Land Levelling and Shaping | He | 183 | 308 | 279 | 847 |
| 11 | Bench Mark and Evaluation Survey conducted | He | 2010 | 2643 | 2447 | 22682 |

Appendix-5.4
Growth of Kerala Power System at a Glance-1995&1996

| Sl. No. | Particulars | Position as on | |
|---------|-----------------------------------------------------------|----------------|-----------|
| | | 31.3.1995 | 31.3.1996 |
| 1 | Installed Capacity-MW | 1503.5 | 1505.5* |
| 2 | Maximum Demand-MW | | |
| | (a) System | 1329.8 | 1372.60 |
| | (b) Internal | 1614.60 | 1651.40 |
| 3 | Generation per annum-MU | 6572.00 | 6682.00 |
| 4 | Import per annum-MU | 2247.19 | 2642.00 |
| 5 | Export per annum-MU | 53.24 | 4.00 |
| 6 | Energy Sales per annum-MU | 7027.69 | 7414.62 |
| 7 | Energy losses of percentage of energy available for sales | 20.09 | 20.05 |
| 8 | Per capita consumption-Kwh | 231.00 | 238.40 |
| 9 | 220 KV lines-CT Km. | 1070.22 | 1175.99 |
| 10 | 110 KV lines-CT Km. | 2444.33 | 2425.089 |
| 11 | 66 KV lines-CT Km. | 2584.88 | 2669.463 |
| 12 | 11 KV lines-CT Km. | 24509.00 | 25929.00 |
| 13 | LT lines-CT Km. | 125390.00 | 130861.00 |
| 14 | Step up Transformer Capacity-MVA | 1744.00 | 1744.00 |
| 15 | No. of EHT Sub-stations | 157.00 | 157.00 |
| 16 | Step down Transformer Capacity-MVA | 6212.00 | 6364.60 |
| 17 | Distribution Transformer | | |
| | (a) Numbers | 22478.00 | 24879.00 |
| | (b) Capacity-MVA | 2887.47 | 3059.38 |
| 18 | no. of Villages Electrified | 1384.00 | 1384.00 |
| 19 | No. of Consumers(in lakhs) | 44.17 | 46.86 |
| 20 | Connected Load-MW | 5397.21 | 5776.09 |
| 21 | No. of street lights | 588808.00 | 602582.00 |
| 22 | No. of Irrigation Pumps | 285322.00 | 300113.00 |
| 23 | Total Revenue per annum(Rs.lakhs) | 64461 | 77900.0 |

* Includes of Maniyar Project

*12 MW private + 2 MW Wind Energy

Appendix - 5.5
Power Projects and Power Generation as on 31.3.1996

| Sl. No. | Name of Projects and Districts | Installed Capacity (MW) | Firm Power (MW) | Units generated during 1995-96 (MU) |
|-------------------|--------------------------------|-------------------------|-----------------|-------------------------------------|
| 1. | Pallivasal-Idukki | 37.5 | 32.5 | 184 |
| 2. | Sengulam-Idukki | 48 | 20.8 | 145 |
| 3. | Neriamangalam-Idukki | 45 | 27.0 | 287 |
| 4. | Panniyar-Idukki | 30 | 17.0 | 164 |
| 5. | Peringalkuthu-Thrissur | 32 | 19.6 | 190 |
| 6. | Sabarigiri-Pathanamthitta | 300 | 138.75 | 1874 |
| 7. | Sholayar-Thrissur | 54 | 26.6 | 204 |
| 8. | Kuttiady-Wayanad | 75 | 28 | 260 |
| 9. | Idukki-Idukki | 780 | 230 | 3064 |
| 10. | Idamalayar-Ernakulam | 75 | 36.5 | 391 |
| 11. | Kallada-Mini-Kollam | 15 | 6.0 | 63 |
| 12. | Kanjikode Wind Farm | 2.02 | 0.4 | 2 |
| Total | | 1493.52 | 583.15 | 8628 |
| Maniyar (Private) | | 12 | 4.1 | 34 |
| Total | | 1505.52 | 587.25 | 6662 |

Appendix - 5.6
Profile of on-going Hydro-Electric Projects in the State

| Sl. No. | Name of Scheme | District | Energy potential (M.U.) | Project sanctioned on | Major works commenced on | Original Estimated Cost (Rs.in lakhs) | Latest Estimated cost (Rs.in lakhs) | Expenditure Up to 3/96 (Rs.in lakhs) | % Increase of revised estimate over the original estimate | Expected year of commissioning |
|---------|------------------------------|----------|-------------------------|-----------------------|--------------------------|---------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Azhutha Diversion | IDK | 57 | 8/85 | 4/87 | 280 | 850 | 573.45 | 183.1 | 1987-98 |
| 2. | Kalkkad | PTA | 262 | 8/76 | 4/78 | 1880 | 15080 | 8881.24 | 710.7 | 1987-98 |
| 3. | Lower Periyar | IDK | 483 | 2/83 | 4/83 | 8843 | 27300 | 23308.15 | 208.7 | 1987-98 |
| 4. | Malampuzha | PGT | 5.6 | 12/85 | 4/87 | 295 | 875 | 471.19 | 128.8 | 1987-98 |
| 5. | Madupetty | IDK | 8.4 | 12/85 | 11/86 | 282 | 775 | 430.48 | 165.4 | 1987-98 |
| 6. | Malankara | IDK | 36 | 8/88 | 1/87 | 780 | 1288 | 5.24 | 68.4 | 1988-98 |
| 7. | Peppara | TVM | 11.5 | 8/88 | 1/87 | 382 | 850 | 450.50 | 118.3 | Commissioned |
| 8. | Peringalkuthu L.B. Extension | TCR | 38 | 5/89 | 9/89 | 902 | 2490 | 2058.78 | 178 | 1987-98 |
| 9. | Kuttady Talliraca | KKD | 15 | 5/89 | 9/89 | 387 | 1000 | 715.18 | 151.9 | 1987-98 |
| 10. | Vazhikkadavu Diversion | IDK | 24 | 5/89 | 9/89 | 185 | 1595 | 157.74 | 782.1 | 1988-99 |
| 11. | Kuttar Diversion | IDK | 37 | 10/89 | 5/91 | 214 | 755 | 248.82 | 251.1 | 1988-99 |
| 12. | Vadakkupuzh Diversion | IDK | 12 | 10/89 | 5/91 | 131 | 385 | 25.80 | 188.9 | 1988-99 |
| 13. | Kuttady Extension | KKDE | 79 | 1/92 | 2/84 | 1073 | 4614 | 47.89 | 50.1 | 1987-98 |
| 14. | Pooyankutty Diesel Plants | EKM | 845 | 8/88 | .. | 28000 | 59000 | 781.78 | 136 | 8 years |
| 15. | Brahmapuram D.G.P.P. | EKM | 535 | 2/93 | 10/93 | .. | 34500 | 26737.02 | .. | 1987-98 |
| 16. | Kozhikode | KKD | 674 | 1988 | 1888 | .. | 36500 | 118.06 | .. | 1988-99 |

APPENDIX -5.7
Outlay and Expenditure during various Plan Periods on (Rs. In lakhs)
Power Development

| Plan period | Power Development | | | |
|---------------------------------|-------------------|------------|-------------|-------------------------|
| | Outlay | % of Total | Expenditure | Expenditure as % outlay |
| First Plan 1951-56 | 1185 | 39.5 | 1080 | 89.5 |
| Second Plan 1956-61 | 2345 | 26.9 | 2192 | 93.5 |
| Third Plan 1961-66 | 4356 | 25.8 | 8084 | 139.7 |
| Annual Plans 1966-67 to 1968-69 | 4691 | 32.9 | 4195 | 89.4 |
| Fourth Plan 1969-74 | 7625 | 10.5 | 10740 | 140.9 |
| Fifth Plan 1974-75 to 1977-78 | 12990 | 22.8 | 11057 | 85.1 |
| Annual Plans 1978-79 to 1979-80 | 8378 | 21.3 | 7060 | 84.3 |
| Sixth Plan 1980-85 | 28007 | 18.8 | 32180 | 114.9 |
| Seventh Plan 1985-90 | 44131 | 19.9 | 41912 | 95.0 |
| Annual Plan 1990-91 | 13542 | 21.3 | 12493 | 92.3 |
| Annual Plan 1991-92 | 15620 | 19.4 | 14642 | 93.7 |
| Eighth Plan 1992-97 | 130000 | 23.8 | .. | .. |
| Annual Plan 1992-93 | 18500 | 20.3 | 19888 | 107.40 |
| Annual Plan 1993-94 | 20900 | 20.9 | 25607 | 112.50 |
| Annual Plan 1994-95 | 30700 | 24.3 | 40509.50 | 131.90 |
| Annual Plan 1995-96 | 45900 | 29.6 | 34866.14 | 75.9 |
| Annual Plan 1996-97 | 56400 | 25.6 | .. | .. |

Appendix-5.8
Pattern of Power Consumption and Revenue collected during 1995-96

| Sl. No. | Category | No. of Consumers as on 31.3.1996 | Connected load as on 31.3.1996 (MU) | Energy sold (MU) | Consumption as % to total | Revenue collected (Rs.lakhs) | Revenue as percentage to total |
|---------|-----------------------------------------|----------------------------------|-------------------------------------|------------------|---------------------------|------------------------------|--------------------------------|
| 1 | Domestic lights, heat and small power | 35,45,475 | 2801.03 | 2777 | 37.45 | 16,934.82 | 24.58 |
| 2 | Commercial lights, fans, heat and power | 7,57,803 | 533.21 | 689 | 9.30 | 13,441.30 | 19.51 |
| 3 | Industrial(Low and Medium voltage) | 78,963 | 1099.80 | 532 | 7.18 | 6,213.84 | 9.02 |
| 4 | Industrial(High and Extra high voltage) | 1,438 | 875.90 | 2711 | 36.58 | 27,585.19 | 40.04 |
| 5 | Irrigation | 2,99,288 | 563.65 | 322 | 4.34 | 764.52 | 1.11 |
| 8 | Public lighting | 1,398 | 34.18 | 110 | 1.47 | 1,219.41 | 1.17 |
| 7 | Water Works and Sewerage | 1,507 | 45.34 | 132 | 1.78 | 1,896.58 | 2.46 |
| 8 | Bulk Supply to Lincencees | 8 | 22.78 | 142 | 1.92 | 1,041.52 | 1.51 |
| 9 | Miscellaneous | - | - | - | - | 3.20 | 0.004 |
| Total | | 46,85,880 | 5776.09 | 7415 | 100.00 | 68,900.36 | 100.00 |

Appendix-5.9
Average Realisation from Sale of power

| Consumer Category | Average Realisation(in paise per unit) | |
|---------------------------|----------------------------------------|---------|
| | 1994-95 | 1995-96 |
| Domestic | 58.67 | 60.98 |
| Commercial | 120.64 | 195.08 |
| Public Lighting | 105.58 | 110.86 |
| irrigation and Dewatering | 23.94 | 23.74 |
| Public works | 125.87 | 128.51 |
| Industrial | | |
| (a) LT | 111.55 | 116.80 |
| (b) HT and EHT | 98.91 | 101.75 |
| Bulk supply | 67.88 | 73.35 |
| Outside supplies | - | - |
| Total | 86.68 | 92.92 |

APPENDIX - 6.1

INDEX OF INDUSTRIAL PRODUCTION

(Base 1980 - 81 = 100)

| Sl.No. | Item | Weight | Index for | |
|--------|-------------------------------------------------------------------------------------------------|--------|-----------|---------|
| | | | 1993-94 | 1994-95 |
| 1. | General Index. | 100.00 | 265.30 | 255.08 |
| 2. | Manufacture of food products. | 8.82 | 129.91 | 128.84 |
| 3. | Manufacture of beverages, Tobacco and related products. | 1.46 | 68.13 | 54.55 |
| 4. | Manufacture of Cotton Textiles. | 8.02 | 166.56 | 193.61 |
| 5. | Manufacture of wool, silk and Man made fibre textiles. | 1.26 | 129.70 | 199.13 |
| 6. | Manufacture of textile products | 3.26 | 90.50 | 12.78 |
| 7. | Manufacture of wood and wood products | 1.35 | 94.11 | 83.06 |
| 8. | Manufacture of basic chemicals and Chemical products (except products of petroleum and coal) | 19.78 | 185.66 | 194.52 |
| 9. | Manufacture of paper and paper products | 1.36 | 1384.79 | 1397.18 |
| 10. | Manufacture of Rubber, Plastic/Petroleum and Coal Products and Nuclear fuels. | 10.06 | 142.93 | 143.74 |
| 11. | Manufacture of Non-metallic mineral products. | 3.42 | 127.65 | 125.70 |
| 12. | Manufacture of Basic Metals and Alloys Industries. | 3.43 | 85.67 | 103.21 |
| 13. | Manufacture of Metal Products and parts except machinery and Equipments | 0.50 | 120.81 | 712.71 |
| 14. | Manufacture of Machinery and Equipment other than transport equipment. | 9.46 | 969.28 | 868.49 |
| 15. | Manufacture of Transport Equipment and parts. | 2.67 | 121.55 | 17.32 |
| 16. | Other manufacturing Industries. | 1.42 | 428.82 | 181.58 |
| 17. | Electricity generation transmission distribution. | 21.93 | 131.49 | 139.84 |

Source: Department of Economics and Statistics, Thiruvananthapuram

APPENDIX - 8.2

**CAPITAL INVESTED AND EMPLOYMENT IN RESPECT OF
GOVERNMENT OWNED COMPANIES IN KERALA**

| Sl.No. | Name of Company | Capital Invested (Rs. Lakhs) | | Employment (Nos) | |
|------------------------------------------------------|----------------------------------------------------------|------------------------------|-----------------|------------------|---------------|
| | | As on 31.3.95 | As on 31.3.96 | As on 31.3.95 | As on 31.3.96 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| Companies which furnished details for 1995-96 | | | | | |
| 1. | Autokast Ltd. | 5700.80 | 4357.19 | 543 | 542 |
| 2. | Foam Mettings (India Ltd.) | 311.88 | 288.54 | 155 | 247 |
| 3. | Kerele Clays and Ceramic Products Ltd. | 158.66 | 158.95 | 353 | 390 |
| 4. | Kerala Electrical and Allied Engineering Company Ltd. | 5218.23 | 5731.81 | 1492 | 1546 |
| 5. | Kerale Hi-tech Industries Ltd. | 4095.51 | 4537.76 | 271 | 320 |
| 6. | Steel Industrials, Kerala Ltd. | 3988.02 | 4820.82 | 428 | 433 |
| 7. | Melabar Cements Ltd. | 4889.28 | 4213.15 | 1078 | 1114 |
| 8. | Scooters Kerala Ltd. | 319.49 | 344.49 | 100 | 94 |
| 9. | Sitaram Textiles Ltd. | 1666.25 | 1771.79 | 874 | 678 |
| 10. | Steel and Industrial Forgings Ltd. | 1840.00 | 1788.00 | 280 | 273 |
| 11. | Kerale Ceremics Ltd. | 1361.19 | 1432.42 | 505 | 481 |
| 12. | Kerala Minerals and Metals Ltd. | 9400.21 | 3309.97 | 953 | 949 |
| 13. | Trivendrum Spinning Mills Ltd. | 678.08 | 748.06 | 438 | 425 |
| Total: | | 39423.38 | 33300.95 | 7250 | 7490 |

Companies from which details have not been received

| | | | | | |
|-----|---------------------------------------------|---------|----|-----|----|
| 14. | Kerala Automobiles Ltd. | 2010.01 | .. | 397 | .. |
| 15. | Kerela Soaps and Oils Ltd. | .. | .. | .. | .. |
| 16. | Kerala State Detergents and Chemicals Ltd. | .. | .. | .. | .. |
| 17. | Kerala State Drugs and Pharmaceuticals Ltd. | 2004.63 | .. | 538 | .. |
| 18. | Kerela State Salicyletes and Chemicels Ltd. | 2546.82 | .. | 120 | .. |
| 19. | Trevancore Plywood Industries Ltd. | 659.08 | .. | 556 | .. |
| 20. | Kerala Speciel Refractories Ltd. | 398.23 | .. | 8 | .. |

APPENDIX - 6.3

**PERFORMANCE OF GOVERNMENT OWNED COMPANIES IN KERALA IN TERMS OF
VALUE OF PRODUCTION AND SALES TURNOVER**

(Amount in Rs. lakhs)

| Sl.No. | Name of Company | Value of Production | | Sales Turnover | |
|------------------------------------------------------|----------------------------------------------------------|---------------------|-----------------|-----------------|-----------------|
| | | 1994-95 | 1995-96 | 1994-95 | 1995-96 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| Companies which furnished details for 1995-96 | | | | | |
| 1. | Autokast Ltd. | 644.41 | 1229.75 | 637.46 | 1209.78 |
| 2. | Foam Mattings (India Ltd.) | 606.81 | 742.62 | 617.59 | 812.89 |
| 3. | Kerala Clays and Ceramic Products Ltd. | 161.57 | 192.31 | 185.69 | 243.28 |
| 4. | Kerala Electrical and Allied Engeneering Company Ltd. | 5685.19 | 5688.28 | 5710.97 | 6214.37 |
| 5. | Kerala Hi-tech Industries Ltd. | 656.64 | 603.37 | 379.83 | 384.75 |
| 6. | Steel Industrials, Kerala Ltd. | 1813.99 | 1969.66 | 1966.36 | 1930.93 |
| 7. | Malabar Cements Ltd. | 9418.80 | 9784.12 | 9465.99 | 10134.70 |
| 8. | Scooters Kerala Ltd. | 42.94 | 33.34 | 42.62 | 34.12 |
| 9. | Sitaram Textiles Ltd. | 1500.00 | 1678.00 | 1159.92 | 1324.71 |
| 10. | Steel and Industrial Forgings Ltd. | 1353.00 | 1606.00 | 1385.00 | 1645.00 |
| 11. | Kerala Ceramics Ltd. | 385.40 | 471.96 | 440.49 | 515.21 |
| 12. | Kerala Minerals and Metals Ltd. | 14584.10 | 13744.27 | 15462.00 | 19171.00 |
| 13. | Trivandrum Spinning Mills Ltd. | 428.20 | 514.69 | 412.76 | 514.98 |
| Total: | | 37261.05 | 38258.37 | 37846.68 | 44135.72 |

Companies from which details have not been received

| | | | | | |
|-----|---------------------------------------------|---------|----|---------|----|
| 14. | Kerala Automobiles Ltd. | 1894.65 | .. | 1832.25 | .. |
| 15. | Kerala Soaps and Oils Ltd. | .. | .. | .. | .. |
| 16. | Kerala State Detergents and Chemicals Ltd. | .. | .. | .. | .. |
| 17. | Kerala State Drugs and Pharmaceuticals Ltd. | .. | .. | .. | .. |
| 18. | Kerala State Salicylates and Chemicals Ltd. | .. | .. | .. | .. |
| 19. | Travancore Plywood Industries Ltd. | .. | .. | .. | .. |
| 20. | Kerala Special Refractories Ltd. | .. | .. | .. | .. |

APPENDIX - 6.4

PRODUCTION AND CAPACITY UTILISATION OF GOVERNMENT OWNED COMPANIES IN KERALA DURING 1994-95 AND 1995-96

| Sl.No: | Name of Company | Name of Product | Unit | Installed Capacity as on | | Production during | | Capacity Utilisation(%) | |
|--------|-------------------------------------------------------|--------------------------------|---------|--------------------------|-----------|-------------------|------------|-------------------------|---------|
| | | | | 31.3.95 | 31.3.96 | 1994-95 | 1995-95 | 1994-96 | 1995-96 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Autokast Ltd. | Castings | M.T. | 23000 | 23000 | 2975.27 | 4939.18 | 12.9 | 21.46 |
| 2. | Foam Mattings (India) Ltd. | 1. Bare Mattings | Sq.Mtr. | 475000 | 475000 | 212133 | 269475 | 44.6 | 56.7 |
| | | 2. Latex beckings | " | 1200000 | 1200000 | 1367390 | 1677016 | 113.9 | 139.75 |
| 3. | Kerale Automobiles Ltd. | Three wheeler | Nos. | 5400 | NA | 4350 | NA | 80.6 | " |
| 4. | Kerala Clays and Ceramic Products Ltd. | 1. China Clay | M.T. | " | " | 10721 | 12085 | " | " |
| | | 2. Bricks | Nos | " | " | 109000 | 96504 | " | " |
| | | 3. Laterite | M.T. | " | " | 7116 | 7745 | " | " |
| 5. | Kerale Electrical and Allied Engineering Company Ltd. | 1. Distribution Transformers | KWA | 120000 | 120000 | 260408 | 425805 | 217.0 | 354.8 |
| | | 2. Steel Structures | M.T. | 1200 | 1200 | 535.93 | 844.31 | 44.7 | 70.3 |
| | | 3. C.I. Specials | M.T. | 1500 | 1500 | 772.91 | 651.12 | 51.5 | 43.4 |
| | | 4. Alternators | Mos. | 3000 | 3000 | 1102 | 1295 | 36.7 | 43.1 |
| | | 5. D.G. Sets and Alternators | Nos. | 3000 | 3000 | 545 | 765 | 18.2 | 25.5 |
| | | 6. Electric Wiring Accessories | Nos. | 253000 | 253000 | 194769 | 280995 | 78.98 | 111.1 |
| 6. | Kerala Hi-Tech Industries Ltd. | 1. Rocket Motor cases | Nos. | 12 | 12 | Products | Products | | |
| | | 2. Titanium Alloy | Nos. | 60 | 60 | worth | worth | | |
| | | 3. Liquid Engine | Nos. | 3 | 3 | Rs. 656.64 | Rs. 803.37 | | |
| | | 4. Control System Components | Sets | 2 | 2 | Lakhs | Lakhs | | |
| | | 5. Aerospace | Lot | Rs.1Crore | Rs1 Crore | | | | |
| | | 6. Turbojet Aircraft Engine | Noe | 3 | 3 | | | | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|---------------------------------------------|-------------------------------------------|--------------|--------------------------|--------|-----------------|----------------|-------|-------|
| 7. | Kerale Soaps and Oils Ltd. | .. | .. | NA | NA | NA | .. | .. | .. |
| 8. | Kerala Special Refractors Ltd. | .. | .. | .. | .. | .. | .. | .. | .. |
| 9. | Kerala State Drugs and Pharmaceuticals Ltd. | 1. Tablets | Lakh Nos | NA | NA | NA | NA | .. | .. |
| | | 2. Capsules | " | " | " | " | " | .. | .. |
| | | 3. Powders | Lakh peckets | " | " | " | " | .. | .. |
| | | 4. Liquids | Lekh packets | " | " | " | " | .. | .. |
| | | 6. Transfusions | Lakh Nos. | " | " | " | " | .. | .. |
| | | 6. Vials | " | " | " | " | " | .. | .. |
| | | 7. Ampules | " | " | " | " | " | .. | .. |
| | | 8. Vitamin A | MMU | " | " | " | " | .. | .. |
| 10. | Kerala State Detergents and Chemicals Ltd. | Detergents | MT | " | " | " | " | .. | .. |
| 11. | Kerale State Salicylates and Chemicals Ltd. | 1. Aspirin IP | TPA | Plant is not functioning | " | " | " | .. | .. |
| | | 2. Technical Salicylic Acid | TPA | " | " | " | " | .. | .. |
| | | 3. Sodium Salicylate | " | " | " | " | " | .. | .. |
| 12. | Melabar Cements Ltd. | Cement | MT | 420000 | 420000 | 383833 | 365352 | 91.4 | 86.9 |
| 13. | Scooters Kerala Ltd. | Fabricated Iron/Steel Products | .. | NA | .. | NA | .. | .. | .. |
| 14. | Sitarum Textiles Ltd. | 1. Yam | Spindles | 16304 | 16304 | 8.40 lakh kg | 8.31 lakh kg | .. | .. |
| | | 2. Cloth | Loom | 336 | 336 | 39.82 lakh mtrs | 43.5 lakh mtrs | .. | .. |
| | | 3. Fabrics | Mtrs/day | 40000 | 40000 | .. | .. | .. | .. |
| 15. | Steel and Industriel Forgings Ltd. | Steel Forgings | M.T. | 7500 | 7500 | 3417 | 3113 | 45.56 | 41.51 |
| 16. | Steel Industnials Kerala Ltd. | 1. Cast Iron | M.T. | 1200 | 1200 | 871 | 643 | 55.92 | 53.58 |
| | | 2. Structural Fabrication | M.T. | 3000 | 3000 | 1074 | 1264 | 35.80 | 42.13 |
| | | 3. Generation and Scrap by breaking ships | M.T. | 16000 | Nil | Nil | .. | .. | .. |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------------------------------|------------------------------------------------|----------|--------|--------|-----------|-----------|-------|-------|
| 17. | The Kerale Ceramics Ltd. | 1. China Clay Powder | M.T. | 5000 | 5000 | 12.52 | 23.84 | 25.04 | 47.68 |
| | | 2. Porcelain wares | M.T. | 595 | 595 | 387.2 | 358.5 | 65.1 | 60.2 |
| | | 3. Kaolin | M.T. | 180000 | 180000 | 6283 | 7899.8 | 34.9 | 43.89 |
| 18. | The Kerala Minerals and Metals Ltd. | 1. Titanium Dioxide | M.T. | 22000 | 22000 | 18042 | 15377 | 82.0 | 69.9 |
| | | 2. Ilmenite | M.T. | 25000 | 25000 | 18280 | 12054 | 73.1 | 48.2 |
| | | 3. Rutile | M.T. | 2400 | 2400 | 1076 | 691 | 44.8 | 28.8 |
| | | 4. Ziron | M.T. | 1500 | 1500 | 278 | 223 | 18.50 | 14.8 |
| | | 5. Leucoxene | M.T. | 300 | 300 | - | - | - | - |
| | | 8. Monazite | M.T. | 240 | 240 | - | - | - | - |
| 19. | Travancore Plywood Industries Ltd. | | | NA | NA | NA | NA | - | - |
| 20. | Trivandrum Spinning Mille Ltd. | Cotton Yem end Polyester yem of various counts | Sprindes | 25200 | 25200 | 3.41184Kg | 4.92184Kg | - | - |

APPENDIX - 6.5

**CAPITAL INVESTED AND EMPLOYMENT IN RESPECT OF GOVERNMENT
MAJORITY COMPANIES IN KERALA**

| Sl.No. | Name of Company | Capitel Invested (Rs. Lekhs) | | Employment (Nos) | |
|------------------------------------------------------|------------------------------------------|---------------------------------|------------------|---------------------|------------------|
| | | As on 31.3.95 | As on 31.3.96 | As on 31.3.95 | As on 31.3.96 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| Companies which furnished details for 1995-96 | | | | | |
| 1. | Forest Industries (Travancore) Ltd | 68.46 | 100.52 | 171 | 158 |
| 2. | Keltron Component Complex Ltd; | 1761.55 | 1490.44 | 362 | 359 |
| 3. | Keltron Counters Ltd | 878.23 | 981.22 | 304 | 302 |
| 4. | Keltron Crystals Ltd | 393.38 | 428.59 | 127 | 127 |
| 5. | Keltron Electro Ceremics Ltd; | 525.86 | 529.86 | 100 | 106 |
| 6. | Keltron Magnetics Ltd | 115.85 | 129.24 | 32 | 32 |
| 7. | Keltron Power Devices Ltd; | 2028.74 | 2331.74 | 144 | 143 |
| 8. | Keltron Resistors Ltd; | 260.04 | 249.89 | 49 | 51 |
| 9. | The Metal Industries Ltd; | 66.41 | 67.85 | 123 | 121 |
| 10. | The Travancore Cements Ltd. | 50.00 | 50.00 | 579 | 848 |
| 11. | Trevancore Titanium Products Ltd. | 176.75 | 176.75 | 1349 | 1345 |
| 12. | Traco Cable Company Ltd; | 5437.61 | 5545.96 | 539 | 798 |
| 13. | The Travancore Sugars and Chemicals Ltd. | 124.35 | 51.00 | 437 | 424 |
| 14. | Transformers and Electricals Kerale Ltd. | 4707.38 | 4707.38 | 1687 | 1685 |
| 15. | Kerale Germents Ltd | 70.12 | 71.76 | 233 | 321 |
| 16. | United Electrical Industries Ltd. | 399.33 | 399.07 | 483 | 461 |
| Total | | 17064.06 | 17311.27 | 6719 | 7081 |

**Companies from which the details
for 1995-96 have not been received**

| | | | | | |
|----|---------------------------------------|---------|---|------|---|
| 1. | Kerala Construction Components Ltd. | | | | |
| 2. | Sidkel Televisions Ltd | - | - | - | - |
| 3. | Steel Complex Ltd | - | - | - | - |
| 4. | Chelekudy Refrecteries Ltd; | - | - | - | - |
| 5. | Keltron Rectifiers Ltd | 1110.72 | - | 123 | - |
| 6. | Metropolitan Engineering Company Ltd. | 492.38 | - | 145 | - |
| 7. | Travancore Cochin Chemicals Ltd. | 1331.19 | - | 1139 | - |
| 8. | Astral Wetches Ltd. | 36.65 | - | 104 | - |

APPENDIX - 6.6

**Performance of Government Majority Companies in terms of
Value of Production and Sales Turnover during
1994-95 & 1995-96**

(Rs. in lakhs)

| Sl.No. | Name of Compsny | Vslue of Production | | Sales Turnover | |
|--------------------------------------------------------------------------------|------------------------------------------|---------------------|-----------------|-----------------|-----------------|
| | | 1994-95 | 1995-96 | 1994-95 | 1995-98 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| A. Companies which furnished details for 1995-96 | | | | | |
| 1. | Forest Industries (Travancore Ltd) | 106.26 | 279.11 | 274.00 | 303.00 |
| 2. | Keltron Component Complex Ltd; | 2193.74 | 2317.33 | 2775.15 | 2314.68 |
| 3. | Keltron Counters Ltd | 195.00 | 373.00 | 259.20 | 409.28 |
| 4. | Keltron Crystals Ltd | 113.67 | 122.61 | 156.29 | 158.81 |
| 5. | Keltron Electro Ceramics Ltd; | 404.70 | 440.31 | 513.00 | 534.52 |
| 6. | Keltron Magnetics Ltd | 21.76 | 20.57 | 35.30 | 27.64 |
| 7. | Keltron Power Devices Ltd; | 27.03 | 20.87 | 44.37 | 31.71 |
| 8. | Keltron Resistors Ltd; | 145.57 | 145.57 | 180.92 | 179.19 |
| 9. | The Metal Industries Ltd; | 176.06 | 162.00 | 202.00 | 143.07 |
| 10. | The Travancore Cements Ltd. | 2857.49 | 3077.00 | 2661.30 | 3093.00 |
| 11. | Trsvancore Titanium Products Ltd. | 5272.13 | 6458.86 | 5424.32 | 6528.89 |
| 12. | Traco Cable Company Ltd; | 6569.48 | 7067.00 | 6609.99 | 8791.85 |
| 13. | The Travancore Sugars and Chemicals Ltd. | 315.09 | 214.17 | 243.46 | 225.79 |
| 14. | Trnsformers and Electricals Kerala Ltd. | 8754.00 | 6908.00 | 8999.00 | 8741.00 |
| 15. | Kerala Garments Ltd | 116.00 | 128.00 | 81.29 | 70.51 |
| 16. | United Electrical Industries Ltd. | 821.67 | 1026.05 | 836.01 | 1024.63 |
| | Total | 27889.65 | 28760.45 | 29295.60 | 30575.57 |
| B. Companies from which the details for 1995-96 hsrve not been received | | | | | |
| 1. | Kerals Construction Components Ltd. | NA | | NA | |
| 2. | Sidkel Televisions Ltd | NA | | NA | |
| 3. | Steel Complex Ltd | NA | | NA | |
| 4. | The Chalakudy Refractories Ltd; | NA | | NA | |
| 5. | Keltron Rectifiers Ltd | 125.52 | | 143.63 | |
| 6. | Metropolitan Engineering Company Ltd. | 275.00 | | 275.04 | |
| 7. | Travancore Cochin Chemicals Ltd. | 3014.11 | - | 7687.95 | - |
| 8. | Astral Watches Ltd. | 24.39 | - | 24.39 | - |

APPENDIX - 6.7

PRODUCTION AND CAPACITY UTILISATION OF GOVERNMENT MAJORITY COMPANIES IN KERALA DURING 1994-95 AND 1995-96

| Sl.No. | Name of Company | Name of Product | Unit | Installed Capacity as on | | | Production during | | | Capacity Utilisation(%) | |
|--------|------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------|--------------------------|-----------|----------|-------------------|---------|------|-------------------------|---------|
| | | | | 31.3.95 | 31.3.96 | | 1994-95 | 1995-96 | | 1994-96 | 1995-96 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| 1. | Forest Industries (Travncore) Ltd. | Wooden furniture and joiners | M | 1500 | 1500 | 1123 | 1146 | 75.3 | 76.4 | | |
| 2. | Keltron Component Complex Ltd. | Electrolytic Capacitors | Million Nos | 150 | 150 | 104.86 | 118.66 | 69.9 | 79.1 | | |
| 3. | Keltron Counters Ltd. | Counting Devices | Nos | 10,00,000 | 10,00,000 | 29298 | 208956 | 2.9 | 20.9 | | |
| 4. | Keltron Crystals Ltd | 1. Communication and Watch Crystals 2. Digital Watches | 1000 Nos | 2084 | 2084 | 558.80 | 692.25 | 26.8 | 33.2 | | |
| 5. | Keltron Electro Ceramics Ltd; | 1. Ceramic Capacitors 2. NTC Thermistors 3. Transducers/Buzzers | Lakh Nos | 800 | NA | 835 | NA | 104.4 | .. | | |
| 6. | Keltron Magnetics Ltd | 1. Servo Controlled voltage stabilizer 2. Uninterrupted Power supply systems | Nos | 5000 | 5000 | 233 | 202 | 4.7 | 4.0 | | |
| 7. | Keltron Power Devices Ltd; | Silicon Power transistors | '000 Nos | 1000 | 1000 | 288 | 234 | 28.8 | 23.4 | | |
| 8. | Keltron Rectifiers Ltd., | 1. Diodes below 30 AMPs 2. Diodes above 30 AMPs 3. Traction and Industrial Electronics & Power Supply | " | 3,00,000 | NA | 3,37,419 | NA | 112.5 | .. | | |
| 9. | Keltron Resistors Ltd | Carbon film & Metal Film resistors | Million Nos | 142 | 142 | 91.90 | 96.49 | 64.7 | 68.0 | | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------|--------|--------|--------|-------|-------|-------|
| 10. | Kerala Construction Components Ltd. | Sandlime Bricks/Fly Ash Bricks | Lakh Nos | NA | NA | NA | NA | NA | NA |
| 11. | Sidkel Televislons Ltd | 1. Black & White TV 2. C.T.V 3. U.G.R 4. O.W/R/O.R 5. L.R. | Nos | NA | NA | NA | NA | NA | NA |
| 12. | Steel Complex Ltd | Steel Billets | M.T | NA | NA | NA | NA | NA | NA |
| 13. | The Chalakudy Refractories Ltd; | Refractory items | M.T. | NA | NA | NA | NA | NA | NA |
| 14. | Metal Industries Ltd. | Agricultural impliments, Gardsn Tools etc. | M.T. | 218 | 218 | 429 | 375 | 196.8 | 172.0 |
| 15. | The Metropolitan Engineering Company Ltd. | 1. 11KVABS 2. L.T/C.T 3. 86/110/220/KW 4. DO/HG Fuse 5. Test Bench 8. Transformer Repelrs 7. Fire Extinguishers | Nos | NA | NA | NA | NA | NA | NA |
| 16. | The Travancore Cochin Chemicals Ltd. | 1. Ceustic Soda 2. By Products of Ceustic Soda: Chlorine | M.T. | 52,800 | 53,677 | 101.7 | 101.7 | 101.7 | 101.7 |
| 17. | The Travancore Cements Ltd. | 1. White Cement 2. Cement Peint | M.T. | 30,000 | 30,000 | 38,719 | 32796 | 122.4 | 109.3 |
| | | | M.T. | 1,050 | 1050 | 2,146 | 2398 | 204.4 | 222.7 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------------------------------------|---------------------------------------------------------|-------------------|------------|-----------|--------|-------|-------|------|
| 18. | Travancore Titanium Products Ltd. | Titanium Dioxide | M.T. | 24,500 | 24,500 | 12,405 | 14027 | 50.6 | 57.3 |
| 19. | Traco Cable Company Ltd. | 1. A.A.C&A.C.S.R | M.T. | 1500 | 1500 | 1168 | 1154 | 77.9 | 76.9 |
| | | 2. P.V.C. Covered conductors and Bare Copper conductors | M.C.M | 32.92 | 32.92 | 4.77 | 17.21 | 14.5 | 32.5 |
| | | 3. Jelly filled Telephone Cable | L.C.K.M. | 7.30 | 7.30 | 7.36 | 7.05 | 100.8 | 96.6 |
| 20. | Travancore Sugars and Chemicals Ltd. | 1. Sugar | M.T. | 900 Tonnes | 900Tonnes | | | | |
| | | 2. Spirit | Lakh Proof litres | | | 424.60 | | | |
| | | 3. I.M.F.L. | K.B.L | - | - | 3.30 | 5.09 | 8.1 | 10.9 |
| | | 4. Arrack | L.P.L | - | - | 9.32 | 3.12 | - | - |
| | | 5. Molasses | M.T | - | - | 266.10 | - | - | - |
| 21. | Transformers and Electricals, Kerala Ltd. | 1. Power Transformers | MVA | 4500 | 4500 | 4218 | 3269 | 93.7 | 72.6 |
| | | 2. Current and Potential Transformers | Nos | 1000 | 1000 | 506 | 523 | 50.6 | 52.3 |
| | | 3. Gas Circuit Board | Nos | 100 | 100 | 37 | 25 | 37.0 | 25.0 |
| | | 4. Reactor | MUAR | 500 | - | - | - | - | - |
| 22. | United Electrical Industries Ltd. | 1. KWH Metres | Lakh Nos | 3.00 | 3.00 | 2.60 | 2.77 | 86.7 | 92.3 |
| | | 2. Motor Control Gears and other items | Nos | 4,500 | 4500 | 1541 | 2003 | 34.2 | 44.5 |
| 23. | Astral Watches Ltd. | Assembly of HMT Watches | Lakh Nos. | 4 | NA | 2.41 | NA | 60.3 | |
| 24. | Kerala Garments Ltd. | Garments | Lakh Nos | 3.00 | 3.00 | 1.55 | 1.82 | 51.7 | 60.1 |

Appendix 6.8

GROUPWISE WORKING RESULTS OF STATE PUBLIC SECTOR UNDERTAKINGS IN KERALA
UNDER THE ADMINISTRATIVE CONTROL OF THE INDUSTRIES DEPARTMENT

(Amount in Rs. Lakhs)

| Sl. No. | Group | No. of Companies Reported | Paid up Capital as on | | Total Borrowings as on | | Gross Block as on | | Net Profit during 1995-96 | | Net Loss during 1995-96 | | Accumulated Loss as on 31.3.96 | |
|------------------------------------------|-------------------------------|---------------------------|-----------------------|-----------------|------------------------|-----------------|-------------------|-----------------|---------------------------|-----------------|-------------------------|----------------|--------------------------------|-----------------|
| | | | 31.3.95 | 31.3.96 | 31.3.95 | 31.3.96 | 31.3.95 | 31.3.96 | No. of Companies | Amount | No. of Companies | Amount | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 1 Modern Manufacturing Industries | | | | | | | | | | | | | | |
| | (i) Electronics | 9 | 10220.04 | 10372.04 | 12397.54 | 12701.03 | 6612.77 | 6695.53 | 3 | 91.96 | 5 | 1970.59 | 7 | 14096.44 |
| | (ii) Chemical | 4 | 5919.89 | 5919.99 | 9848.28 | 1971.32 | 20258.41 | 22444.31 | 4 | 9149.67 | -- | -- | -- | -- |
| | (iii) Electrical and Cable | 3 | 4509.62 | 4509.62 | 7959.99 | 9659.61 | 7237.35 | 9509.49 | 2 | 327.28 | 1 | 473.47 | 2 | 3056.47 |
| | (iv) Engineering | 6 | 5899.91 | 5899.87 | 11967.67 | 12729.34 | 9687.49 | 9999.09 | 1 | 99.00 | 5 | 1839.79 | 6 | 9247.27 |
| | (v) Ceramics and Refractorfee | 2 | 1163.90 | 1197.50 | 479.05 | 517.97 | 452.47 | 468.61 | 1 | 19.84 | 1 | 153.43 | 1 | 1660.08 |
| | (vi) Textilee | 4 | 2200.79 | 2512.57 | 2722.60 | 2904.09 | 2720.90 | 3263.79 | -- | -- | 4 | 421.95 | 4 | 3489.61 |
| | Sub Total (1) | 27 | 29712.95 | 30500.49 | 44261.13 | 39383.26 | 45969.29 | 51280.91 | 11 | 9695.75 | 19 | 4759.13 | 20 | 31548.97 |
| 2 | Wood based | 1 | 37.71 | 37.71 | 68.42 | 130.96 | 20.53 | 20.20 | 1 | 0.69 | -- | -- | -- | -- |
| 3 | Agro based | 1 | 51.00 | 51.00 | 212.53 | 169.29 | 203.44 | 205.07 | -- | -- | 1 | 153.21 | 1 | 226.92 |
| 4 | Traditional | 3 | 3592.99 | 3749.89 | 9181.93 | 10288.86 | 335.96 | 393.54 | 2 | 174.31 | 1 | 1079.88 | 2 | 14472.13 |
| 5 | Trading | 1 | 22.90 | 22.60 | -- | -- | 9.39 | 9.60 | 1 | 35.26 | -- | -- | -- | -- |
| 6 | Promotional | 8 | 7513.39 | 7797.86 | 18743.99 | 20399.94 | 909.64 | 974.02 | 4 | 2791.65 | 4 | 161.31 | 8 | 2001.97 |
| | Grand Total | 41 | 40900.53 | 42159.25 | 72478.99 | 70321.10 | 47344.14 | 52772.24 | 19 | 12697.65 | 22 | 6153.53 | 28 | 48249.59 |

APPENDIX: 8.9
CAPITAL INVESTED AND EMPLOYMENT IN RESPECT OF GOVERNMENT
OF INDIA COMPANIES FUNCTIONING IN KERALA

| Sl.No. | Nama of Company | Capital Invested (Rs.lakhs) | | Employment(Nos) | |
|--------|--------------------------------------------------------------------|--------------------------------|-------------------|-------------------|-------------------|
| | | As on 31.3.'95 | As on 31.3.'96 | As on 31.3.'95 | As on 31.3.'96 |
| 1. | Cochin Refineries Ltd., Kochi | 37573.00 | 35159.00 | 1400 | 1535 |
| 2. | Cochin Shipyard Ltd., Kochi | 34665.53 | 35328.09 | 2513 | 2497 |
| 3. | Tha Fertilizers and Chemicals Travancore Ltd., Aluva | 42962.30 | 65724.22 | 8316 | 8112 |
| 4. | Hindustan Latex Ltd., Trivandrum | 2882.56 | 2769.23 | 2090 | 2157 |
| 5. | Hindustan Newsprint Ltd., Kottayam | 8519.07 | 8513.49 | 1854 | 1629 |
| 6. | Indian Rare Earths Ltd., (a) Rare Earths Division, Udyogamandal | N.A | N.A | N.A | N.A |
| | (b) Minerals Division, Chavara | N.A | N.A | N.A | N.A |
| 7. | Indian Telephona Industries, Palakkad | N.A | N.A | 892 | 869 |
| 8. | Hindustan Insecticides Ltd., Udyogamandal | N.A | N.A | 743 | 735 |
| 9. | Instrumentation Ltd., Palakkad | 2416.07 | 2740.26 | 606 | 547 |
| 10. | Modam Food Industries(India) Ltd., Edappally | N.A | N.A | 216 | 223 |
| 11. | H.M.T. Ltd., Kalamassary | 685.88 | 869.89 | 1660 | 2038 |
| 12. | Balmar Lawrie and Company Ltd., Aroor | N.A | N.A | N.A | N.A |
| 13. | Hindustan Organic Chemicals Ltd., Ambalamugal | 4437.10 | 4915.40 | 464 | 489 |
| 14. | Cannanore Spinning and Weaving Mills, Kannur | 519.35 | 604.57 | 320 | 297 |
| 15. | Parvathy Mills, Kollam | N.A | N.A | N.A | N.A |
| 16. | Vijayamohini Mills, Trivandrum | 935.51 | 980.36 | 548 | 483 |
| 17. | Alegappa Textiles(Cochin) Mills, Thrissur | 1233.84 | 1427.93 | 1007 | 978 |
| 18. | Kerala Lakshmi Mills, Thrissur | 790.83 | 876.40 | 760 | 732 |
| 19. | Cochin Refineries-Balmar Lawrie Ltd. | N.A | N.A | N.A | N.A |

N.A. - Not Available

APPENDIX: 8.10
PERFORMANCE OF GOVERNMENT OF INDIA COMPANIES IN KERALA
IN TERMS OF VALUE OF PRODUCTION AND SALES TURNOVER

(Rs. lakhs)

| Sl.No. | Name of Company | Value of Production | | Total Sales Turnover | |
|--------|-------------------------------------------------------------------|---------------------|-----------|----------------------|-----------|
| | | 1994-95 | 1995-96 | 1994-95 | 1995-96 |
| 1 | 2 | 3 | 4 | 5 | 8 |
| 1. | Cochin Refineries Ltd., Kochi | 219462.00 | 335103.00 | 217318.00 | 338356.00 |
| 2. | Cochin Shipyard Ltd., Kochi | 9704.47 | 12982.40 | 9080.14 | 11784.95 |
| 3. | The Fertilizers and Chemicals Travancore Ltd., Aluva | 96295.48 | 117089.93 | 91361.45 | 117801.64 |
| 4. | Hindustan Letex Ltd., Trivandrum | 4968.83 | 5202.84 | 4977.31 | 5259.67 |
| 5. | Indian Rare Earths Ltd., (a) Rera Earth Division, Udyogamandal | N.A | N.A | N.A | N.A |
| | (b) Minerals Division, Chavara | N.A | N.A | N.A | N.A |
| 6. | Hindustan Newsprint Ltd., Kottayam | 217620.00 | 26922.98 | 21781.64 | 26922.98 |
| 7. | Indian Telephone Industries Ltd, Palakkad | 11483.00 | 6596.00 | 10122.00 | 8889.87 |
| 8. | Hindustan Insecticides Ltd., Udyogamandal | 4620.16 | 8152.59 | 2178.09 | 3500.09 |
| 9. | Instrumentation Ltd., Palakkad | 2929.27 | 2057.74 | 3371.97 | 2874.12 |
| 10. | Modern Food Industries(India) Ltd., Edappally | 1384.57 | 1459.41 | 1384.57 | 1459.41 |
| 11. | H.M.T. Ltd., Kalamassary | 3898.00 | 4665.00 | 4936.00 | 5170.00 |
| 12. | Balmar Lawria and Company Ltd.,Aroor | N.A | N.A | N.A | N.A |
| 13. | Hindustan Organic Chemicals Ltd., Ambalamugal | 19405.38 | 25974.32 | 18944.49 | 25516.41 |
| 14. | Cannanore Spinning and Weaving Mills, Kannur | 1233.15 | 1445.40 | 1347.09 | 1391.52 |
| 15. | Parvathy Mills, Kollam | N.A | N.A | N.A | N.A |
| 16. | Vijayamohini Mills, Trivandrum | 1398.56 | 1379.08 | 1326.57 | 1308.27 |
| 17. | Alagappa Textiles(Cochin) Mills, Thrissur | 2252.72 | 2213.08 | 2255.13 | 2129.47 |
| 18. | Kerala Lakshmi Mills, Thrissur | 1918.28 | 2115.39 | 1923.38 | 2000.95 |
| 19. | Cochin Refineries-Balmar Lawria Ltd. | N.A | N.A | N.A | N.A |

Appendix - 6.11

Government of India Companies Functioning in Kerala - Main Features

(Rs. in lakhs)

| Sl. No. | Name of Company | Paid up Capital as on | | Share of Govt and Public Sector Fin. Institutions in the paid up capital as on 31.3.1996 | Total loan & interest accrued as on 31.3.1996 | Loan availed during 1995-96 | | Gross Block as on | Net Assets as on | Value of Major Plant materials Consumed during 1995-96 | Net Profit (+)/ Net Loss (-) | | |
|---------|-----------------------------------------------|-----------------------|-----------|------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------|-------------|-------------------|------------------|--------------------------------------------------------|------------------------------|--------------|--------------|
| | | 31.3.1995 | 31.3.1996 | | | From Govt | From others | | | | 1994-95 | 1995-96 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 10 | 11 | 12 | 13 | 14 |
| 1. | Cochin Refineries Ltd. | 6894.00 | 6894.00 | 4144.00 | 28321.00 | 18937.00 | 85337.00 | Nil | 92295.00 | 63164.00 | 304272.00 | (+) 11179.00 | (+) 14108.00 |
| 2. | Cochin Shipyard Ltd. | 20443.20 | 20843.20 | 20483.20 | 14662.01 | -- | 14272.94 | 850.00 | 15644.35 | 8355.52 | 49255.48 | (+) 1118.40 | (+) 1845.80 |
| 3. | The Fertilizers and Chemicals Travancore Ltd. | 35477.20 | 35477.20 | 35396.90 | 42766.87 | 2264.00 | 72644.58 | 21900.00 | 98043.29 | 62851.58 | 66506.88 | (+) 7870.80 | (+) 7875.84 |
| 4. | Hindustan Latex Ltd. | 1364.50 | 1553.50 | 1553.50 | 2147.56 | 758.00 | 5811.93 | 60.34 | 8255.55 | 3008.12 | 2539.21 | (+) 132.80 | (-) 633.58 |
| 5. | Indian Rare Earths Ltd. | | | | | | | | | | | | |
| | (a) Rare Earths Division, Udyogamandal | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | (b) Minerals Division, Chavara | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 6. | Hindustan New - sprint Ltd. | 8253.99 | 8253.99 | 8253.99 | 417.42 | -- | 23883.94 | -- | 25150.14 | 11786.78 | 6539.34 | (+) 4437.85 | (+) 9035.43 |
| 7. | Indian Telephone Industries Ltd | NA | NA | NA | 18404.78 | 40844.32 | 7404.31 | Nil | 7678.11 | 3443.64 | 7549.34 | (-) 528.72 | (-) 2850.75 |
| 8. | Hindustan Insecticides Ltd | 4130.74 | 4921.06 | 4896.01 | NA | NA | 3208.77 | NA | 3420.37 | 2628.99 | 2159.13 | (+) 666.08 | (-) 663.87 |
| 9. | Instrumentation Ltd | 2312.72 | 2312.72 | NA | 447.81 | -- | 1304.21 | -- | 1315.74 | 464.09 | 1641.90 | (+) 379.00 | (+) 28.37 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|-----|----------------------------------------|---------|---------|---------|---------|-----|-------|----------|----------|---------|---------|-------------|-------------|
| 10. | Modern Food Industries (India) Ltd. | NA | NA | NA | Nil | Nil | Nil | 229.52 | 250.52 | 96.67 | 623.84 | (+) 118.86 | (+) 188.21 |
| 11. | H.M.T. Ltd. | 606.00 | 606.00 | NA | 870.25 | -- | -- | 2192.85 | 2326.56 | 556.30 | 955.05 | (+) 19.00 | (-) 118.00 |
| 12. | Balmer Lawrie & Co., Ltd | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 13. | Hindustan Organic Chemicals Ltd. | 3342.00 | 3342.00 | 3342.00 | 3371.70 | -- | -- | 12368.22 | 12221.00 | 5599.23 | 9882.22 | (+) 3630.18 | (+) 6757.44 |
| 14. | Cannanore Spinning and Weaving Mills | 120.08 | 120.08 | 120.08 | 584.49 | NA | 31.24 | 218.40 | 216.76 | 68.45 | 1102.87 | (+) 47.75 | (-) 101.05 |
| 15. | Parvathy Mills | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 18. | Vijayamohini Mills | 243.63 | 243.63 | 243.63 | 775.35 | -- | -- | 584.85 | 586.68 | 256.36 | 904.69 | (-) 44.15 | (-) 120.13 |
| 17. | Alagappa Textiles (Cochin) Mills | 223.03 | 223.03 | 223.03 | 1010.81 | -- | -- | 883.77 | 861.24 | 251.40 | 1526.53 | (-) 49.55 | (-) 335.08 |
| 18. | Karala Lakshmi Mills | 114.46 | 114.46 | 114.46 | 764.99 | -- | -- | 745.70 | 749.59 | 245.15 | 1457.32 | (-) 66.38 | (-) 262.36 |
| 19. | Cochin Refractories Balmer Lawrie Ltd. | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

Appendix - 6.12

PRODUCTION AND CAPACITY UTILISATION IN GOVERNMENT OF INDIA COMPANIES FUNCTIONING IN KERALA

| Sl. No. | Name of Company | Name of Products | Unit | Installed Capacity as on | | | Production during | | | Capacity Utilisation (%) | | |
|---------|-----------------------------------------------------------|-------------------------------------|-------------------|--------------------------|--------------|-------------|-------------------|-----------|-----------|--------------------------|---------|--|
| | | | | 31-3-95 | 5 | 6 | 1994-95 | 1995-96 | 1994-95 | 1995-96 | 1995-96 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
| 1. | Cochin Refineries Ltd., Kochi | Petroleum/Petrochemical Products | Million M.T. | 7.50 | 7.50 | 5.135 | 7.42 | 68.5 | 98.9 | | | |
| 2. | Cochin Shipyard Ltd., Kochi | 1. Ship Buildings 2. Ship Repair | D.W.T G.R.T | 150000 1000000 | 150000 .. | 11939 .. | 13203 .. | 8.0 .. | 8.8 .. | | | |
| 3. | The Fertilizers and Chemicals Travancore Ltd, Aluva | | | | | | | | | | | |
| | (a) Jdyogamandal Division | | | | | | | | | | | |
| | (b) Cochin Division | | | | | | | | | | | |
| | (c) Petrochemical Division | | | | | | | | | | | |
| | (d) Marketing Division | | | | | | | | | | | |
| | Hindustan Latex Ltd., Thiruvananthapuram | | | | | | | | | | | |
| | | 1. Ammonium Sulphate 20 : 20 | M.T. | 225000 | 225000 | 197284 | 207982 | 87.7 | 92.4 | | | |
| | | 2. Factomfos 20 : 20 | M.T. | 148500 | 148500 | 138596 | 159761 | 93.3 | 107.8 | | | |
| | | 1. Urea | M.T | 330000 | 330000 | 244100 | 266910 | 74.0 | 80.9 | | | |
| | | 2. Factomfos 20 : 20 | M.T. | 485000 | 485000 | 501150 | 565658 | 103.3 | 116.6 | | | |
| | | 3. DAP | M.T. | -- | -- | 10230 | 9479 | -- | -- | | | |
| | | Caprolactum | M.T. | 50000 | 50000 | 43440 | 47098 | 86.9 | 94.2 | | | |
| | | Mixed Manures | " | -- | -- | 40326 | 47862 | -- | -- | | | |
| | | 1. Condoms | Million pieces | 576 | 576 | 605.45 | 562.83 | 105.1 | 97.7 | | | |
| | | 2. Gloves | " | 24 | 24 | 7.43 | 5.37 | 31.0 | 22.4 | | | |
| | | 3. Centchroman | " | 30 | 30 | -- | 2.91 | -- | 9.7 | | | |
| | | 4. CopperT | -- | 4 | 4 | 0.29 | 1.97 | 7.3 | 49.3 | | | |
| | | 5. Hydro cephalis shunt | Nos. | 5000 | 5000 | -- | 690 | -- | 13.8 | | | |
| | | 7. Mala - D/N | Million cycles | 30 | 30 | 19 | 17.5 | 63.3 | 58.3 | | | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------------------------------------------|-------------------------------------------------------------------------------------|------|--------|--------|--------|--------|-------|-------|
| 5. | Indian Rare Earths Ltd | | | | | | | | |
| | (a) Rare Earths Division, Udyogamandal | | | | | | | | |
| | | 1. HLRE Chloride | M.T | NA | NA | NA | NA | -- | -- |
| | | 2. Trodosium Phosphate | " | | | | | | |
| | | 3. Rare Earth Flouride | M.T | NA | NA | NA | NA | -- | -- |
| | | 4. Rare Earth Oxide | " | " | " | " | " | -- | -- |
| | (b) Mineral Division Chavara | NA | " | " | " | " | " | -- | -- |
| 6. | Hindustan Newsprnt Ltd., Kottayam | Newsprnt | M.T | 100000 | 100000 | 105369 | 101111 | 105.4 | 101.1 |
| 7. | Indian Telephons Industries Ltd., Palakkad | Electronic Switching Equipments | k.L | -- | -- | 4.04 | 505.8 | -- | -- |
| 8. | Hindustan Insecticides Ltd., Udyogamandal | 1. Tech.D.D.T | M.T | 1344 | 1344 | 831 | 1071 | 66.8 | 80.0 |
| | | 2. Form. D.D.T | " | 2688 | 2688 | 1580 | 1833 | 59.2 | 68.2 |
| | | 3. Tech. B.H.C | " | 3000 | 3000 | 1666 | 1151 | 55.5 | 98.4 |
| | | 4. Tech. Endosulfan | " | 1600 | 1600 | 1080 | 1325 | 67.5 | 82.8 |
| | | 5. Form. B.H.C | " | 3000 | 3000 | 1274 | 1143 | 42.4 | 98.1 |
| | | 8. Form. Endosulfan | K.L | 1910 | 1910 | 501 | 978 | 26.2 | 51.2 |
| 9. | Instrumentation Ltd., Palakkad | 1. Process Control Values 2. Safety Relief Values & Pressure producing values | Nbs. | 7500 | 7500 | 4877 | 4788 | 65.0 | 63.8 |
| | | 3. Orifice Plate/Flow measuring Devices | Nbs. | 2000 | 2000 | 343 | 404 | 17.2 | 20.2 |
| | | 4. Miscellaneous items | Nbs | 500 | 500 | 94 | 21 | 18.8 | 4.2 |
| | | Modern Bread & Bun of 400 gm each | No. | -- | -- | 821 | 701 | -- | -- |
| 10. | Modern Food Industries India Ltd., Edappally | | Lakh | 287 | 287 | 300.73 | 318.18 | 104.8 | 110.2 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|--------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|------------------------------|--------------------------------|
| 11. | H.M.T. Ltd., Kalamassery | Machina Tools | Nos. | 745 | 765 | 407 | 467 | 54.8 | 61.0 |
| 12. | Balmer Lawrie & Co., Ltd., Aroor | NA | NA | NA | NA | NA | NA | NA | NA |
| 13. | Hindustan Organic Chemicals Ltd., Arbalamugal | 1. Lean Propylene 2. Cumene 3. Phenol 4. Acetone | T.P.A * * * | 28000 54000 40000 24640 | 29000 54000 40000 24640 | 20547 40627 37688 23576 | 23858 46029 43302 27024 | 70.9 75.2 94.2 95.7 | 82.3 85.2 108.3 110.0 |
| 14. | Cannanore Spinning and Weaving Mills, Kannur | Yam In different counts | Lakh Kg | 24800 Spindles | 24800 Spindles | 14.10 | 13.83 | -- | -- |
| 15. | Parvathy Mills, Kollam | NA | NA | NA | NA | NA | NA | -- | -- |
| 16. | Vijayamohini Mills, Thiruvananthapuram | Yam In different counts | Lakh Kg | 28796 Spindless | 28796 Spindless | 12.66 | 10.75 | -- | -- |
| 17. | Alagappa Textiles(Cochin) Mills, Trissur | Cotton/Blended yam of different counts ranging from 32s to 100s in cone and Hank forms | Lakh Kg | 49532 spindles | 49532 spindles | 20.02 | 18.75 | -- | -- |
| 18. | Kerala Lakshmi Mills, Trissur | Cotton yam/SF polyester yam | Lakh Kg | 41328 Spindless | 41328 Spindless | 16.94 | 18.33 | -- | -- |
| 19. | Cochin Refeneries Balmer Lawrie Ltd., | | -- | -- | NA | NA | NA | NA | NA |

NA : Not Available

Appendix - 6.13
District-wise Details of Small Scale Industrial units Registered in Kerala during the year 1995-96

| Name of District | Number of SSI Units promoted by | | | | Total | Investment (Rs. in lakhs) | Value of Goods and services produced (Rs. lakhs) | Employment provided (Number) | Total number of units Commenced Commercial Operations |
|-----------------------|---------------------------------|-----------|-------------|--------------|--------------|------------------------------|--------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------|
| | S.C | S.T. | Women | Others | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. Thiruvananthapuram | 124 | 4 | 285 | 1452 | 1865 | 1866.33 | 3263.75 | 6598 | 1865 |
| 2. Kollam | 154 | Nil | 493 | 1005 | 1652 | 2156.64 | 1617.48 | 6705 | 1652 |
| 3. Pathanamthitta | 57 | Nil | 163 | 640 | 860 | 781.17 | 1364.37 | 2729 | 860 |
| 4. Alappuzha | 45 | Nil | 335 | 1181 | 1561 | 2818.73 | 3938.65 | 10295 | 1561 |
| 5. Kottayam | 7 | Nil | 254 | 1469 | 1730 | 2113.32 | 12885.54 | 6248 | 1730 |
| 6. Idukki | 18 | 10 | 192 | 237 | 457 | 291.46 | 1349.35 | 1613 | 457 |
| 7. Ernakulam | 49 | 3 | 520 | 1428 | 2000 | 2488.27 | 24742.13 | 10643 | 2000 |
| 8. Thrissur | 119 | 3 | 388 | 1195 | 1705 | 2681.71 | 12235.90 | 6527 | 1705 |
| 9. Palakkad | 10 | Nil | 346 | 1199 | 1555 | 2310.00 | 4506.00 | 5945 | 1555 |
| 10. Malappuram, | 42 | 4 | 144 | 870 | 860 | 1226.87 | 659.30 | 3435 | 860 |
| 11. Kozhikode | 5 | Nil | 241 | 890 | 1136 | 1822.37 | 4678.00 | 5136 | 1136 |
| 12. Wayanad | 4 | 5 | 129 | 162 | 300 | 324.71 | 226.89 | 878 | 300 |
| 13. Kannur | 23 | 14 | 146 | 819 | 802 | 1246.50 | 6076.25 | 3361 | 802 |
| 14. Kasargod | 20 | 8 | 75 | 319 | 420 | 325.60 | 640.17 | 1662 | 420 |
| State Total | 677 | 49 | 3711 | 12466 | 16903 | 22453.68 | 78183.78 | 71775 | 16903 |

Appendix - 6.14

District-Wise details of Registered Small Scale Units in Kerala as on 31st March 1996

| 1 | 2 | 3 | | | 5 | 6 | 7 | 8 | 9 |
|-----------------------|------|---------------------------------|--------|--------|---------------------------------|------------------------------------------------|------------------------------|---|---|
| | | S.C | S.T. | Women | | | | | |
| Name of District | | Number of SSI Units promoted by | | | Total Investment (Rs. in lakhs) | Estimated Value of Goods and Services Produced | Employment Provided (Number) | | |
| 1. Thiruvananthapuram | 992 | 2750 | 11915 | 15657 | 13904.86 | 54440.79 | 68040 | | |
| 2. Kollam | 1104 | 2619 | 9494 | 13217 | 14631.25 | 43486.21 | 128389 | | |
| 3. Pathanamthitta | 491 | 1430 | 3859 | 5780 | 4112.27 | 9409.39 | 23924 | | |
| 4. Alappuzha | 352 | 1918 | 10933 | 13203 | 13394.07 | 59143.00 | 73636 | | |
| 5. Kottayam | 268 | 2258 | 12349 | 14878 | 14205.04 | 41324.64 | 57143 | | |
| 6. Idukki | 288 | 1194 | 2714 | 4186 | 2753.80 | 8396.71 | 14664 | | |
| 7. Ernakulam | 829 | 2192 | 16733 | 19754 | 30264.57 | 94880.13 | 97737 | | |
| 8. Thrissur | 964 | 1873 | 12406 | 15243 | 20735.46 | 58162.56 | 65984 | | |
| 9. Palakkad | 606 | 1602 | 8483 | 10691 | 13490.60 | 31263.31 | 58656 | | |
| 10. Malappuram | 687 | 837 | 5010 | 6534 | 9646.91 | 14649.71 | 26670 | | |
| 11. Kozhikode | 219 | 1406 | 8962 | 10587 | 9078.79 | 35737.32 | 57142 | | |
| 12. Wayanad | 163 | 804 | 1475 | 2442 | 1459.29 | 1370.47 | 8275 | | |
| 13. Kannur | 202 | 758 | 6701 | 7662 | 8095.20 | 51623.18 | 71886 | | |
| 14. Kasargod | 99 | 430 | 2752 | 3281 | 3425.75 | 5000.95 | 24890 | | |
| State Total | 7265 | 22072 | 113786 | 143123 | 159187.86 | 508668.37 | 774936 | | |

Appendix - 6.15
Working Status of Small Scale Units as on 31st March, 1996

| Sl. No | Name of District | Total No. of units | Number of Units | | | Units Revived by DIC during 1995-96 | |
|--------------|--------------------|--------------------|--------------------|--------------------|-----------|-------------------------------------|--|
| | | | Identified as Sick | Registered as Sick | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 6 | |
| 1. | Thiruvananthapuram | 15657 | 225 | 210 | 2 | | |
| 2. | Kollam | 13217 | 335 | 198 | 1 | | |
| 3. | Pathanamthitta | 5780 | 59 | 45 | 2 | | |
| 4. | Alappuzha | 13203 | 248 | 177 | 3 | | |
| 5. | Kottayam | 14876 | 262 | 238 | Nil | | |
| 6. | Idukki | 4196 | 49 | 39 | Nil | | |
| 7. | Ernakulam | 19754 | 1011 | 201 | Nil | | |
| 8. | Thrissur | 15243 | 126 | 78 | 2 | | |
| 9. | Palakkad | 10891 | 54 | 64 | Nil | | |
| 10. | Malappuram | 6534 | 50 | 45 | Nil | | |
| 11. | Kozhikode | 10587 | 183 | 177 | 4 | | |
| 12. | Wayanad | 2442 | 50 | 40 | Nil | | |
| 13. | Kannur | 7662 | 85 | 73 | 2 | | |
| 14. | Kasaragod | 3281 | 31 | 23 | Nil | | |
| Total | | 143123 | 2768 | 1608 | 16 | | |

Appendix - 6.16

Details of Entrepreneurship Development Programmes Conducted during 1995-96

| 1 | 2 | Number of Entrepreneurs Trained during 1995-96 | | | 5 | 6 |
|-------------|-----|------------------------------------------------|-----|------|------|------|
| | | Name of District/Agency | S.C | S.T. | | |
| 1. | Nil | Nil | Nil | 30 | 30 | 25 |
| 2. | 91 | Nil | Nil | 990 | 1081 | 975 |
| 3. | 22 | 10 | Nil | Nil | 32 | 32 |
| 4. | Nil | Nil | 35 | 35 | 35 | Nil |
| 5. | 1 | Nil | 150 | 151 | 151 | 15 |
| 6. | Nil | Nil | Nil | Nil | Nil | Nil |
| 7. | Nil | Nil | 22 | 22 | 22 | 1 |
| 8. | Nil | Nil | 60 | 60 | 60 | 13 |
| 9. | Nil | Nil | 20 | 20 | 20 | 3 |
| 10. | 2 | Nil | 28 | 30 | 30 | 3 |
| 11. | 2 | Nil | 22 | 24 | 24 | 15 |
| 12. | 1 | 5 | 39 | 45 | 45 | 44 |
| 13. | Nil | Nil | Nil | Nil | Nil | Nil |
| 14. | Nil | Nil | Nil | Nil | Nil | Nil |
| 15. | 1 | -- | 134 | 135 | 135 | 15 |
| State Total | | 120 | 15 | 1530 | 1665 | 1141 |

Appendix - 6.17

District-wise Details of Artisan Units Started during 1995-96

| Name of District | Rural Areas | | | | | | Urban Areas | | | | | | Grand Total |
|-----------------------|------------------------------------------------|------------|------------|------------|-------------|-----------|-------------|-----------|------------|------------|-------------|--|-------------|
| | Number of Artisan units started during 1995-96 | | | | | | | | | | | | |
| | S.C | S.T. | Women | Others | Total | S.C. | S.T. | Women | Others | Total | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 1. Thiruvananthapuram | Nil | Nil | 50 | 17 | 67 | Nil | Nil | Nil | Nil | Nil | 67 | | |
| 2. Kollam | 4 | Nil | 38 | 4 | 46 | Nil | Nil | Nil | Nil | Nil | 46 | | |
| 3. Pathanamthitta | 4 | Nil | 63 | 2 | 69 | 1 | Nil | 14 | -- | 15 | 84 | | |
| 4. Alappuzha | 6 | Nil | 6 | 39 | 53 | Nil | Nil | Nil | 6 | 6 | 59 | | |
| 5. Kottayam | Nil | Nil | 1 | 7 | 6 | Nil | Nil | Nil | Nil | Nil | 6 | | |
| 6. Idukki | 3 | Nil | 22 | 26 | 51 | Nil | Nil | Nil | Nil | Nil | 51 | | |
| 7. Ernakulam | Nil | Nil | 15 | 10 | 25 | Nil | Nil | 2 | 2 | 4 | 29 | | |
| 8. Thrissur | 95 | 3 | 85 | 250 | 433 | 16 | Nil | 45 | 125 | 185 | 616 | | |
| 9. Palakkad | 182 | Nil | 16 | 40 | 240 | Nil | Nil | Nil | Nil | Nil | 240 | | |
| 10. Malappuram | 1 | Nil | 35 | 23 | 59 | 1 | Nil | 4 | 28 | 33 | 92 | | |
| 11. Kozhikode | Nil | Nil | 2 | 21 | 23 | Nil | Nil | Nil | 6 | 6 | 29 | | |
| 12. Wayanad | 13 | 240 | 29 | 200 | 482 | Nil | Nil | 7 | 9 | 16 | 498 | | |
| 13. Kannur | 5 | 50 | 22 | 56 | 133 | Nil | Nil | Nil | 46 | 46 | 179 | | |
| 14. Kasargod | N.A | N.A | N.A | N.A | N.A | N.A | N.A | N.A | N.A | N.A | N.A | | |
| State Total | 313 | 283 | 388 | 695 | 1689 | 17 | Nil | 72 | 222 | 311 | 2000 | | |

Appendix - 6.18

Achievements under PMRY Programme during 1995-96

| Applications Sanctioned and Amount Disbursed during 1995-96 | | | | | | |
|-------------------------------------------------------------|-------|-------------------------------|------------------------------------|--------|---------------------------------|-------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Name of District | No. | Sanctioned Amount (Rs. lakhs) | Average Amount Sanctioned Per unit | Number | Disbursement Amount (Rs. lakhs) | Average Amount per Unit |
| 1. Thiruvananthapuram | 1790 | 871.53 | 0.487 | 1231 | 535.66 | 0.435 |
| 2. Kollam | 1227 | 597.97 | 0.487 | 930 | 454.59 | 0.489 |
| 3. Pathanamthitta | 691 | 368.42 | 0.533 | 522 | 248.04 | 0.475 |
| 4. Alappuzha | 1177 | 558.48 | 0.473 | 802 | 376.48 | 0.469 |
| 5. Kottayam | 1300 | 718.31 | 0.552 | 890 | 462.28 | 0.519 |
| 8. Idukki | 434 | 228.16 | 0.526 | 312 | 127.86 | 0.410 |
| 7. Ernakulam | 1587 | 971.51 | 0.612 | 1205 | 675.29 | 0.560 |
| 8. Thrissur | 1575 | 808.54 | 0.513 | 1132 | 552.72 | 0.488 |
| 9. Palakkad | 1240 | 487.09 | 0.393 | 928 | 337.41 | 0.364 |
| 10. Malappuram | 684 | 443.69 | 0.649 | 535 | 342.01 | 0.639 |
| 11. Kozhikode | 1164 | 651.36 | 0.560 | 504 | 258.52 | 0.513 |
| 12. Wayanad | 289 | 117.43 | 0.406 | 206 | 84.14 | 0.408 |
| 13. Kannur | 847 | 431.03 | 0.509 | 808 | 355.67 | 0.440 |
| 14. Kasargod | 332 | 185.97 | 0.560 | 273 | 155.42 | 0.569 |
| State Total | 14337 | 7437.49 | | 10278 | 4966.09 | |

Appendix - 6.19

Industrial Co-operative Societies in Kerala as on 30-06-1996

| Name of District | Industrial Co-operative Societies registered during 1995-96 (7/95 to 6/96) | Total number of Societies registered as on 30-6-1996 |
|-----------------------|----------------------------------------------------------------------------|------------------------------------------------------|
| 1 | 2 | 3 |
| 1. Thiruvananthapuram | 30 | 279 |
| 2. Kollam | 19 | 216 |
| 3. Pathanamthitta | 12 | 104 |
| 4. Alappuzha | 15 | 225 |
| 5. Kottayam | 12 | 143 |
| 6. Idukki | 4 | 84 |
| 7. Ernakulam | 22 | 153 |
| 8. Thrissur | 8 | 209 |
| 9. Palakkad | 2 | 116 |
| 10. Malappuram | 2 | 111 |
| 11. Kozhikode | 2 | 122 |
| 12. Weyanad | 2 | 50 |
| 13. Kannur | 14 | 185 |
| 14. Kasargod | 19 | 72 |
| State Total | 183 | 2081 |

Appendix - 6.20

Kerala Financial Corporation, Thiruvananthapuram
Summary of Loan Operations as on 31.03.1996

| Sl. No. | Particulars | During the year 1995-98 | | | | | | Since Inception up to 31.3.1996 | | | | | |
|---------|-----------------------------------------------------------------|-------------------------|----------|--------|----------|-------|----------|---------------------------------|----------|--------|----------|-------|-----------|
| | | S.S.I | | Others | | Total | S.S.I | | Others | | Total | | |
| | | No. | Amount | No. | Amount | | No. | Amount | No. | Amount | | No. | Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1. | Applications pending as on 1.4.95 | 25 | 571.51 | 8 | 170.65 | 33 | 742.16 | 0 | 0 | 0 | 0.00 | 0 | 0.00 |
| 2. | Application received | 1358 | 17946.83 | 1295 | 10857.92 | 2653 | 28804.75 | 22001 | 92779.25 | 8857 | 42506.91 | 30858 | 136286.16 |
| 3. | Total application for consideration | 1383 | 18518.34 | 1303 | 11028.57 | 2686 | 29546.91 | 22119 | 94166.78 | 8876 | 42756.75 | 30995 | 136923.53 |
| 4. | Application withdrawn/rejected or otherwise disposed off | 74 | 1153.16 | 52 | 759.84 | 126 | 1913.00 | 3770 | 12904.97 | 840 | 5295.32 | 4610 | 18100.29 |
| 5. | Application sanctioned (Gross) | 1215 | 14525.68 | 1189 | 9203.71 | 2404 | 23729.39 | 17490 | 68412.98 | 8460 | 39509.07 | 25950 | 107921.95 |
| 6. | A. Application cancelled/ reduced out of current year sanction | 26 | 152.57 | 37 | 127.75 | 63 | 280.32 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| | B. Application cancelled/ reduced out of previous year sanction | 55 | 371.45 | 54 | 297.62 | 109 | 669.07 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| | C. Total cancellation/ reduction (6 A+B) | 81 | 524.02 | 91 | 425.37 | 172 | 949.39 | 2705 | 9268.91 | 977 | 3173.07 | 3682 | 12441.98 |
| 7. | Application sanctioned effectively (5-6A) | 1189 | 14373.11 | 1152 | 9075.96 | 2341 | 23449.07 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| 8. | Net Sanction (5-6C) | 1134 | 14001.66 | 1098 | 8779.34 | 2232 | 22780.00 | 14745 | 59143.97 | 7483 | 36336.00 | 22228 | 95479.97 |
| 9. | Amount disbursed along with number of newly assisted units | 1060 | 7039.24 | 1015 | 6936.39 | 2075 | 13975.63 | 14712 | 46619.51 | 6867 | 27125.91 | 21579 | 71145.3 |
| 10. | Application pending sanction as at the end of the period | 92 | 673.35 | 64 | 262.13 | 156 | 935.48 | 0 | 0 | 0 | 0 | 0 | 0.00 |

Appendix - 6.21

District-Wise Details of Disbursement of Loan by KFC
1995-96

(Rs. in lakhs)

| Sl. No. | District | SSI | | Others | | Total | |
|-----------------------------------|--------------------|-------------|----------------|-------------|----------------|-------------|-----------------|
| | | No. | Amt. | No. | Amt. | No. | Amt. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| I. Backward Districts | | | | | | | |
| Category - A | | | | | | | |
| 1. | Idukki-Kattappana | 117 | 374.80 | 127 | 571.34 | 244 | 945.94 |
| 2. | Thodupuzha | | | | | | |
| 3. | Wayanad | 27 | 107.32 | 73 | 203.62 | 100 | 310.94 |
| Category - B | | | | | | | |
| 4. | Alappuzha | 75 | 557.30 | 34 | 188.40 | 109 | 745.70 |
| 5. | Malappuram | 40 | 190.97 | 43 | 591.16 | 83 | 782.15 |
| 6. | Kannur | 69 | 478.69 | 64 | 206.54 | 153 | 685.23 |
| 7. | Kasaragod | 35 | 160.62 | 30 | 123.38 | 65 | 304.00 |
| Category-C | | | | | | | |
| 8. | Thiruvananthapuram | 61 | 479.85 | 149 | 1047.51 | 230 | 1527.36 |
| 9. | Thrissur | 120 | 1061.32 | 47 | 345.30 | 167 | 1406.62 |
| Total | | 584 | 3430.67 | 567 | 3277.27 | 1151 | 6707.94 |
| II. Non Backward Districts | | | | | | | |
| 10. | Pathanamthitta | 52 | 342.34 | 61 | 192.43 | 113 | 534.77 |
| 11. | Kollam | 80 | 394.02 | 83 | 425.59 | 163 | 819.61 |
| 12. | Emakulam | 99 | 1437.00 | 66 | 1670.00 | 165 | 3107.00 |
| 13. | Palakkad | 63 | 520.03 | 66 | 671.80 | 129 | 1191.83 |
| 14. | Kozhikoda | 62 | 213.24 | 145 | 476.68 | 207 | 689.87 |
| 15. | Kottayam | 120 | 701.94 | 27 | 222.67 | 147 | 924.61 |
| Total : | | 476 | 3608.57 | 448 | 3659.12 | 924 | 7267.69 |
| Grand Total : | | 1060 | 7039.24 | 1015 | 6936.39 | 2075 | 13975.63 |

Appendix - 6.22

**Industry-wise Classification of Loan Sanctioned and
Disbursed by the Kerala Financial Corporation
As on 31.3.1996**

(Amt. Rs. in lakhs)

| Type of Industry | Amt: Sanctioned | Percentage of Total loans sanctioned | Amt: Disbursed | Percentage of Total loans disbursed |
|------------------------------------|------------------|--------------------------------------|-----------------|-------------------------------------|
| 1. Mining | 1556.97 | 1.53 | 564.88 | 0.77 |
| 2. Crude Petroleum | 152.04 | 0.15 | 79.50 | 0.11 |
| 3. Petroleum Refining | 13.37 | 0.01 | 11.31 | 0.01 |
| 4. Sugar | 0.00 | 0.00 | 11.31 | 0.01 |
| 5. Other Food Products | 8275.35 | 6.16 | 6096.33 | 6.27 |
| 6. Textiles | 2990.55 | 2.95 | 2179.22 | 2.95 |
| 7. Paper & Paper Products | 1912.51 | 1.89 | 1400.43 | 1.90 |
| 8. Leather and leather products | 271.28 | 0.27 | 211.64 | 0.29 |
| 9. Rubber products | 9317.82 | 9.19 | 6772.74 | 9.18 |
| 10. Chemical and Chemical products | 3414.71 | 3.37 | 2416.93 | 3.28 |
| 11. Fertilizers | 0.00 | 0.00 | 0.00 | 0.00 |
| 12. Cement | 110.20 | 0.11 | 84.07 | 0.11 |
| 13. Basic Metals | | | | |
| (a) Iron and Steel | 1045.62 | 1.03 | 673.86 | 0.91 |
| (b) Non ferrous | 773.11 | 0.76 | 603.58 | 0.82 |
| 14. Metal products | 4974.20 | 4.91 | 2684.93 | 3.64 |
| 15. Capital Goods: | | | | |
| (a) Non-electrical machinery | 650.71 | 0.64 | 396.47 | 0.54 |
| (b) Electrical machinery | 1406.00 | 1.39 | 1282.49 | 1.74 |
| (c) Electronic machinery | 0.00 | 0.00 | 0.00 | 0.00 |
| (d) Transport equipment | 935.44 | 0.92 | 773.49 | 1.05 |
| 16. Electricity generation | 32.82 | 0.03 | 14.43 | 0.02 |
| 17. Services | | | | |
| (a) Hotels | 7655.97 | 7.55 | 5055.96 | 6.66 |
| (b) Hospitals | 1984.26 | 1.96 | 1390.60 | 1.89 |
| (c) Others | 16654.60 | 16.43 | 14943.30 | 20.26 |
| 18. Others | 37257.04 | 36.75 | 26107.14 | 35.40 |
| Total | 101384.57 | 100.00 | 73745.32 | 100.00 |

Appendix - 6.23

Progress of the Working of Kerala Financial Corporation at a Glance

(Rs. in lakhs)

| Year | Loans Sanctioned (cumulative) | Loans Dis- bursed (cumulative) | Loans Out- standing (cumulative) | Profit Before Taxation | Profit After Taxation |
|---------|----------------------------------|--------------------------------------|----------------------------------------|------------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1990-91 | 42,836.39 | 32,820.67 | 29,007 | 112.19 | -- |
| 1991-92 | 49,754.80 | 38,878.59 | 31,823 | 69.94 | -- |
| 1992-93 | 58,842.50 | 45,388.72 | 36,470 | 141.14 | 54.22 |
| 1993-94 | 67,000.92 | 52,231.15 | 39,773 | 141.56 | 56.34 |
| 1994-95 | 77,935.50 | 59,769.89 | 44,813 | 188.29 | 57.91 |
| 1995-96 | 101,384.57 | 73,745.32 | 51,084 | 978.51 | 663.85 |

Appendix- 6.24
**Khadi and Village Industries: Production, Sales, Employment and Wages paid During
 1994-95 & 1995-96**
 (Amount in Rs. lakhs)

| Sl.No. | Name of Industry | Value of Production | | Value of sales | | Employment | | Wages paid | |
|--------|------------------------------------|---------------------|---------|----------------|---------|------------|---------|------------|---------|
| | | 1994-95 | 1995-96 | 1994-95 | 1995-96 | 1994-95 | 1995-96 | 1994-95 | 1995-96 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Khadi | 308.40 | 350.73 | 802.84 | 894.41 | 8829 | 8578 | 259.28 | 262.47 |
| i. | Village Industries | 688.56 | 1073.70 | 743.63 | 1192.73 | 7565 | 7878 | 140.96 | 251.66 |
| ii. | Cottage Match | 174.90 | 207.77 | 184.34 | 212.03 | 1206 | 1299 | 29.67 | 39.56 |
| 1. | Agarbathy | 811.60 | 1057.03 | 892.29 | 1183.73 | 3414 | 3682 | 170.55 | 208.69 |
| 2. | Village Leather | 660.43 | 702.43 | 735.72 | 834.89 | 71588 | 70558 | 473.17 | 592.24 |
| 3. | Fibre and Screwpine | 316.58 | 687.52 | 352.48 | 705.37 | 1256 | 1518 | 33.54 | 44.02 |
| 4. | Rubber based Industry | 115.44 | 132.60 | 124.90 | 148.22 | 758 | 926 | 29.21 | 36.60 |
| 5. | Hand made paper | 1062.49 | 1118.13 | 1101.23 | 1149.15 | 22702 | 22942 | 516.42 | 534.78 |
| 6. | Village Pottery | 228.87 | 251.75 | 245.22 | 269.73 | 1528 | 1528 | 54.75 | 60.21 |
| 7. | Gurkhandasari | .. | .. | 138.98 | 147.37 | 518 | 544 | 71.64 | 78.87 |
| 8. | Service Industry | 375.73 | 462.27 | 405.98 | 482.06 | 923 | 1005 | 24.86 | 27.28 |
| 9. | Non Edible Oil and Soap | 1533.64 | 1577.58 | 1656.20 | 1744.73 | 1697 | 1775 | 49.67 | 50.75 |
| 10. | Village Oil | 456.56 | 564.76 | 489.45 | 557.70 | 3587 | 3926 | 144.25 | 168.34 |
| 11. | Textile | 196.31 | 219.94 | 230.84 | 288.13 | 13091 | 13346 | 29.40 | 33.48 |
| 12. | Palmgur | 86.88 | 96.67 | 131.04 | 133.61 | 16438 | 17635 | 43.49 | 47.32 |
| 13. | Bee keeping | 590.72 | 624.94 | 653.12 | 698.75 | 12399 | 13498 | 207.95 | 235.84 |
| 14. | Processing of Cereals & pulses | 6.81 | 35.29 | 4.80 | 40.29 | 283 | 696 | 3.17 | 11.59 |
| 15. | Ayurvedic Medicine | 364.25 | 421.49 | 404.86 | 476.95 | 2984 | 3256 | 86.98 | 102.33 |
| 16. | Fruits and Vegetables Preservation | 1150.72 | 1211.67 | 1304.33 | 1371.64 | 7718 | 8391 | 339.59 | 436.83 |
| 17. | Lime | 300.55 | 323.35 | 319.76 | 334.84 | 5346 | 5299 | 155.15 | 168.91 |
| 18. | Cane and Bamboo | 1106.47 | 1216.49 | 1205.77 | 1476.22 | 7598 | 8350 | 322.75 | 377.06 |
| 19. | Carpentry and Blacksmithy | 362.34 | 378.82 | 376.14 | 414.34 | 928 | 1004 | 100.37 | 110.31 |
| 20. | Aluminium Industry | .. | 2.90 | .. | 3.09 | .. | 9 | .. | 0.30 |
| 21. | Metal Industry | 75.35 | 89.25 | 54.16 | 66.15 | 546 | 546 | 18.65 | 5.83 |
| 22. | Electronics | 40.06 | 48.48 | 53.22 | 91.87 | 2786 | 612 | 16.70 | 30.58 |
| 23. | Polyvastra | 308.40 | 350.73 | 802.84 | 894.41 | 8829 | 8578 | 259.28 | 262.47 |
| 24. | Total Khadi | 308.40 | 350.73 | 802.84 | 894.41 | 8829 | 8578 | 259.28 | 262.47 |

| | | | | |
|----------|-----------------------|--------------------|---------------------|----------------------|
| 19918.00 | Total: KVI: 195688 | 11012.66 198801 | 12855.56 3322.17 | 12611.300 3915.65 |
|----------|-----------------------|--------------------|---------------------|----------------------|

Appendix - 6.25
Coir-co-operative Societies in Kerala

| Type of Society | No. of Societies as on | |
|-------------------------------------------------------------|------------------------|------------|
| | 31.3.95 | 31.3.96 |
| 1 | 2 | 3 |
| I <u>Primary Coir Co-op. Societies</u> | | |
| a) Working | 440 | 449 |
| b) New Societies which have not started working | 57 | 31 |
| c) Dormant Societies | 53 | 64 |
| Total | 550 | 544 |
| II <u>Manufacturing Societies</u> | | |
| a) Working | 20 | 21 |
| b) New Societies which have not started working | 5 | 5 |
| c) Dormant | 23 | 23 |
| Total | 48 | 49 |
| III. <u>Small Scale Producers Co-op. Society</u> | | |
| a) Working | 7 | 7 |
| b) New Societies which have not started working | Nil | Nil |
| c) Dormant | 1 | 2 |
| Total | 8 | 9 |
| iv. <u>Husk Procurement and Distribution Society</u> | | |
| a) Working | 2 | 2 |
| b) New Societies which have not started working | Nil | Nil |
| c) dormant | 2 | 2 |
| Total | 4 | 4 |
| V. <u>Fibre Societies (Defibering Mill)</u> | | |
| a) Working | 1 | 1 |
| b) New Societies which have not started working | 54 | 69 |
| c) Dormant | Nil | Nil |
| Total | 55 | 70 |
| VI <u>Co-operative Coir Marketing Federation</u> | 1 | 1 |
| VII. <u>Total No. of Coir Co-op. Societies</u> | | |
| a) Working | 471 | 481 |
| b) New Societies which have not started working | 116 | 105 |
| c) Dormant Societies | 79 | 91 |

| | | |
|--------------------------------|------------|------------|
| d) Societies under liquidation | 215 | 203 |
| Total | 881 | 880 |

Appendix 6.26
Export of Coir and Coir Products from India
During 1994-95 and 1995-96

| Item | 1994-95 | | 1995-96 | |
|-----------------------------|----------------------|------------------------|----------------------|------------------------|
| | Quantity (Tonnes) | Value (Rs.in lakhs) | Quantity (Tonnes) | Value (Rs.in lakhs) |
| 1 | 2 | 3 | 4 | 5 |
| 1. Coir Fibre | 779 | 76.89 | 303 | 27.09 |
| 2. Coir Yarn | 16810 | 3487.82 | 14838 | 3434.48 |
| 3. Coir Mats | 18049 | 8048.38 | 20353 | 10131.77 |
| 4. Coir Mattings | 6939 | 3588.49 | 7590 | 4621.29 |
| 5. Coir Rugs & Carpets | 2429 | 1419.96 | 2817 | 1867.91 |
| 6. Coir Rope | 77 | 16.58 | 121 | 26.27 |
| 7. Coir (Other Sorts) | 196 | 71.22 | 353 | 176.36 |
| 8. Rubberised Coir Products | 155 | 110.93 | 175 | 113.40 |
| 9. Curled Coir | 2007 | 186.05 | 1156 | 112.89 |
| 10. Coir Geo textiles | 442 | 151.35 | 474 | 167.80 |
| 11. Coir pith | 203 | 6.35 | 109 | 5.40 |
| Total | 48086 | 17164.02 | 48289 | 20684.66 |

Appendix- 6.27
Activities of the Coir Co-operative Societies

Primary Coir Co-operative Societies

| Year | No. of working Society | No. of members | Raw Materials consumed | | | Yarn/Fibre produced | | No. of Workers (in '000') | Wages paid (Rs. in lakhs) | |
|------|------------------------|----------------|------------------------|---------------------|--------------------|---------------------|------------------|---------------------------|---------------------------|---------------------|
| | | | Husk (No.lakhs) | Value (Rs.in lakhs) | Fibre (Qty.Tonnes) | Value (Rs.lakhs) | Qty (in Quintal) | | | Value (Rs.in lakhs) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

| | | | | | | | | | | |
|---------|-----|-----|---------|--------|---------|--------|----------|---------|----|--------|
| 1993-94 | 442 | 262 | 1094.00 | 309.31 | 882.00 | 58.71 | 95443.00 | 1082.37 | 66 | 537.40 |
| 1994-95 | 440 | 257 | 885.60 | 401.11 | 2116.00 | 177.21 | 85121.00 | 1287.82 | 62 | 622.82 |
| 1995-96 | 449 | 252 | 855.02 | 427.50 | 2125.59 | 191.30 | 94180.00 | 1299.00 | 60 | 764.47 |

Manufacturing Societies

| Year | No. of Working Societies | No. of members ('000') | Value of Production | No. of Workers | Wages paid (Rs. in lakhs) | Value of Export (Rs.In lakhs) |
|---------|--------------------------|------------------------|---------------------|----------------|---------------------------|-------------------------------|
| 1993-94 | 26 | 4.64 | 890.22 | 2.55 | 137.23 | Nil |
| 1994-95 | 30 | 5.24 | 1270.24 | 2.63 | 183.59 | " |
| 1995-96 | 28 | 4.84 | 1555.30 | 2.35 | 198.41 | " |

Appendix -6.28
Production and Productivity under Handloom Sector in Kerala

| Sl. No. | Item | 1994-95 | 1995-96 |
|---------|------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| 1. | Total number of Handlooms in the State | 59675 | 60509 |
| 2. | No of looms in the Cooperative Sector | 46380 | 47204 |
| 3. | Percentage of Item 2 to 1 | 77.72% | 78.01% |
| 4. | <u>Cooperative Sector</u> | 58.59 | 69.750 |
| | I. Production of Handloom Cloth (Million metres) | 58.59 | 69.75 |
| | ii. Value of production (Rs. Crores) | 134.45 | 289.575 |
| | iii. Productivity (Metre/Loom/Annum) | 1263 | 1477 |
| 5. | <u>Outside Co-operative Sector</u> <u>Corporate Sector and unorganised</u> <u>Private Sector.</u> | | |
| | I. No. of looms | 13295 | 13305.00 |
| | II. Production of Handloom Cloth (in Million metres) | 10.13 | 20.07 |
| | III. Value of production (Rs. crores) | 5.15 | 70.24 |
| | IV. Productivity (Metres/Loom /Annum) | 762 | 1508 |
| 6. | <u>Total (Co-operative, Corporate</u> <u>and unorganised</u> <u>Private Sector</u> | | |
| | I. Production of Handloom Cloth (Million Metres) | 68.72 | 89.82 |
| | ii. Value of Production (Rs.crores) | 203.140 | 351.815 |
| | iii. Productivity (Metre/Loom/Annum) | 1151.60 | 1484.00 |
| 7. | <u>Assistance extended by way of loan</u> <u>and grant for the development of</u> <u>Handloom Industry (Rs. lakhs)</u> | | |
| | a. <u>Loan</u> | | |
| | 1. State Government | 164.07 | 264.690 |
| | 2. Central Government | 6.42 | 117.585 |
| | 3. NCDC | 93.77 | 298.185 |
| | Total (a) | 264.26 | 680.460 |
| | b. <u>Grant</u> | | |
| | i. State Government | 201.47 | 978.306 |
| | ii. Central Government | 425.60 | 767.883 |
| | iii. NCDC | 627.07 | 1746.188 |
| | Total (b) | 1254.14 | 3492.377 |
| | c. <u>Amount spent on rebate on the</u> <u>sale of handloom cloth</u> | | |
| | I. State Government | 547.82 | 150.00 |
| | ii. Central Government (M.D.A) | 298.77 | 1077.00 |
| | Total (c) | 846.59 | 1277.00 |

| | | | |
|----|----------------------------------------------|----------------|------------------------|
| 8. | <u>Value of unsold stock (Rs. in crores)</u> | | <u>(Rs. in crores)</u> |
| | a. In the cooperative sector | 24.36 | 29.19 |
| | b. In the corporate sector | 2.42 | 3.23 |
| | c. In the unorganised Sector | .. | .. |
| 9. | <u>Number of Cooperative Societies</u> | | |
| | a. <u>Factory Type :</u> | | |
| | i. Working Societies | 107 | 109 |
| | ii. Dormant | 21 | 17 |
| | iii. Under liquidation | <u>2</u> | <u>2</u> |
| | iv Others | | |
| | Total (a) | <u>130</u> | <u>133</u> |
| | b. <u>Cottage type societies:</u> | | |
| | i. Working societies | 353 | 451 |
| | ii. Dormant | 58 | 60 |
| | iii. Under liquidation | 79 | 77 |
| | iv. Unstarted | <u>18</u> | <u>14</u> |
| | Total (b) | <u>508</u> | <u>602</u> |
| | GRAND TOTAL (a + b) | <u>638</u> | <u>735</u> |

Appendix 6.29

Working results of Handloom Apex Society (HANTEX)

| Sl. No. | Particulars | 1994-95 | 1995-96 |
|---------|--------------------------------------------------------------------------------------|---------|---------|
| 1. | Sales Turnover (Rs. Crores) | 20.68 | 26.15 |
| 2. | Value of cloth produced (Rs. crores) | 14.42 | 0.60 |
| 3. | Value of yarn purchased (Rs. crores) | 5.80 | 6.27 |
| 4. | Value of yarn distributed (Rs. crores) | 6.04 | 6.72 |
| 5. | Value of Janatha Cloth produced (Rs. crores) | .. | .. |
| 6. | Value of Polyester shirting, double veshty and single veshty Produced (Rs. in lakhs) | 27.56 | .. |
| 7. | Processed Goods | | |
| | a. Production (Lakh metres) | 1.21 | 4.76 |
| | b. Value (Rs. lakhs) | 68.34 | 157.00 |
| 8. | No. of exhibitions conducted | 25.00 | 26.00 |
| 9. | No. of primary societies registered as members (cumulative) | 425.00 | 428.00 |

**Working Results of Kerala State Handloom Development Corporation Ltd.
(HANVEEV)**

| Sl.No | Particulars | 1994-95 | 1995-96 |
|-------|---------------------------------------------------|----------|---------|
| 1. | Paid up capital (as at the end of the year) | 473.03 | 499.70 |
| 2. | Total Borrowings (-do-) | 823.00 | 1023.00 |
| 3. | Gross Block (-do-) | 179.45 | 208.14 |
| 4. | Value of Production (-do-) | 314.00 | 491.00 |
| 5. | Income through sale of products | 666.75 | 967.34 |
| 6. | Other income | 152.25 | 204.24 |
| 7. | (a) Expenditure on Raw materials | | |
| | (b) Expenditure on Purchase of fabrics(-do-) | 599.34 | 533.34 |
| 8. | Expenditure on Personnel Payments | 115.24 | 148.93 |
| 9. | Provision for depreciation | 6.00 | 6.00 |
| 10. | Expenditure towards Interest and Bank charges. | 92.34 | 132.25 |
| 11. | Other expenses | 85.18 | 168.71 |
| 12. | Net profit (+) / Net Loss (-) | (-)24.46 | (-)6.32 |
| 13. | Accumulated loss, if any, at the end of the year. | 565.36 | 610.97 |

Appendix 6.31

Production and Productivity under Powerloom Industry

| Sl.No. | Item | 1994-95 | 1995-96 |
|--------|-----------------------------------------------------|---------|----------|
| 1. | Total No. of Powerloom in the State | 5587.00 | 2394.00 |
| 2. | No. of looms in the cooperative sector | 611.00 | 962.00 |
| 3. | Percentage of item 2 to 1 | 10.94 | 12.25 |
| 4. | No. of Powerloom cooperative societies in the state | 22.00 | 38.00 |
| 5. | No of members in the cooperative sector | 1775.00 | 1227.00 |
| 8. | Cooperative Sector : | | |
| | i. Production of cloth (lakhs metres) | 30.20 | 118.18 |
| | ii. Value of production (Rs. lakhs) | 453.00 | 2648.82 |
| | iii. Productivity (Metre/loom) | 6252.00 | 12284.82 |
| 7. | Unorganised/Private Sector | | |
| | i. Production of cloth (lakh metres) | 21.00 | .. |
| | ii. Value of Production (Rs.lakhs) | 315.00 | .. |
| | iii. Productivity (metre/loom) | 4975.00 | .. |
| 8. | Total (Cooperative and unorganised Sectors) | | |
| | i. Production (lakh metres) | 240.20 | 118.18 |
| | ii. Value of production (Rs. lakhs) | 3603.00 | 2648.00 |
| | iii. Productivity (metre/loom) | 4300.00 | 12284.00 |

Appendix -6.32
Import of Raw Cashewnuts into India

| Year | Quantity (M.T.) | Value(Rs.Crores) |
|---------|-----------------|------------------|
| 1 | 2 | 3 |
| 1990-91 | 82639 | 134.00 |
| 1991-92 | 106080 | 266.68 |
| 1992-93 | 134985 | 376.33 |
| 1993-94 | 191322 | 482.70 |
| 1994-95 | 228109 | 690.94 |
| 1995-96 | 218019 | 749.18 |

Source:- Report of the Cashew Export promotion council and Economic Review 1995

Appendix -6.33
Foreign Exchange Earnings of India from cashew Industry

(Amount : Rs. lakhs)

| Year | Export value | | Total | Import value of Cashewnuts | Net Foreign exchange earned |
|---------|----------------|------------------------|--------|----------------------------|-----------------------------|
| | Cashew Kernals | Cashewnut Shell liquid | | | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1990-91 | 44224 | 556 | 44780 | 13400 | 31380 |
| 1991-92 | 66909 | 402 | 67311 | 26668 | 40643 |
| 1992-93 | 74549 | 381 | 74930 | 37633 | 37297 |
| 1993-94 | 104602 | 289 | 104891 | 48270 | 56621 |
| 1994-95 | 124628 | 244 | 124872 | 69094 | 55778 |
| 1995-96 | 122716 | 304 | 123020 | 74918 | 48102 |

Source : Cashew Export Promotion Council

Appendix - 6.34

Revenue Collection from Mining Sector : From 1990-91 to 1995-96

(Rs. in lakhs)

| Year | Minor Minerals | Major Minerals | Total |
|---------|----------------|----------------|-------|
| 1 | 2 | 3 | 4 |
| 1990-91 | 28.8 | 79.1 | 107.9 |
| 1991-92 | 131.7 | 32.3 | 164.0 |
| 1992-93 | 321.9 | 108.8 | 430.7 |
| 1993-94 | 337.2 | 114.8 | 452.0 |
| 1994-95 | 385.6 | 148.1 | 533.7 |
| 1995-96 | 357.1 | 228.7 | 585.8 |

Appendix : 6.35

Production and Sale of Mineral Sand in Kerala

| Name of Mineral | 1994-95 | | | 1995-96 | | |
|-----------------|---------------------|-------------------|------------------|---------------------|-------------------|------------------|
| | Production | | | Sales | | |
| | Production (Tonnes) | Quantity (Tonnes) | Value (Rs.lakhs) | Production (Tonnes) | Quantity (Tonnes) | Value (Rs.lakhs) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Ilmenite | 157646 | 184571 | 6841.8 | 125152 | 206233 | 5431.5 |
| Rutile | 9197 | 8976 | .. | 7304 | 7122 | .. |
| Zircon | 15856 | 19131 | .. | 13539 | 5010 | .. |
| Sillimanite | 8291 | 8462 | 207.2 | 6745 | 6162 | 168.6 |
| Leucoxene | .. | .. | .. | 207 | 44 | .. |

Appendix-6.36

Production and Sale of Major Minerals (Other than Mineral Sand)

(Quantity in MT, Value in Rs.)

| Name of Mineral | 1994-95 | | | 1995-96 | | | Value/Tonne | | | | | |
|-----------------|------------|-----------|--------------------------------------------|-----------|-----------------------------------------|-----------|-------------------|--------------------------------------------|-------|-------------------------------------------|---------------------------------------|-----------|
| | Production | | Sales/consumption | | Production | | Sales Consumption | | Value | | Value | |
| | Raw | Processed | Raw | Processed | Raw | Processed | Raw | Processed | Raw | Processed | Raw | Processed |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| China clay | 223842 | 82470 | 102970 | 82716 | 559.6 (Crude) 2820 (Processed) | 247211 | 112364 | 69413 | 70832 | 618.0 (Crude) 3842.8 (Processed) | 250 (Crude) 3420 (Processed) | |
| Lime Stone | 423675 | .. | 427050 | .. | 677.8 | 893769 | .. | 402640 | .. | 1430.0 | 160 | |
| Silica sand | 62753 | 29637 | 60447 | 29817 | 94.1 | 124827 | 27906 | 119522 | 26714 | 187.2 | 150 | 2 |
| Lime Shell | 146800 | Nil | 82257 (Sales) 65363 (Consumption) | .. | 374.3 | 145775 | .. | 90622 (Sales) 55000 (Consumption) | .. | 371.7 | 225 | 2 |
| Magnesite | 65 | .. | 81 | .. | 0.5 | Nil | .. | Nil | .. | Nil | 800 | |
| Quartz | 5213 | .. | 5292 | .. | 20.8 | 4962 | .. | 4962 | .. | 19.8 | 400 | |
| Graphite | 100 | .. | 100 (Consumption) | .. | NA | 500 | .. | 500 (Consumption) | .. | | NA | |

Appendix - 7.1
Division wise and Category wise length of Roads Maintained by PWD (R & B) As on 1-4-1996 (Kms)

| Sl.No. | Name of Division | State Highway | Major Dist. Road | Other Dist. Road | Village Road | Total |
|--------|--------------------|---------------|------------------|------------------|--------------|-----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Thiruvananthapuram | 80.700 | 294.922 | 1392.834 | 89.335 | 1857.791 (8.1) |
| 2. | Kollam | 174.626 | 447.612 | 1063.347 | 115.997 | 1801.582 (7.9) |
| 3. | Alappuzha | 113.267 | 360.217 | 477.341 | 143.018 | 1094.343 (4.8) |
| 4. | Pathanamthitta | 174.022 | 459.284 | 253.244 | 123.431 | 1514.981 (8.6) |
| 5. | Kottayam | 288.000 | 708.382 | 1010.393 | 48.056 | 2054.831 (9.0) |
| 6. | Idukki | 330.286 | 423.040 | 392.263 | 458.391 | 1603.930 (7.0) |
| 7. | Eranakulam | 54.147 | 289.701 | 505.715 | .. | 849.563 (8.7) |
| 8. | Muvattupuzha | 88.676 | 510.880 | 518.430 | 103.270 | 1221.256 (5.3) |
| 9. | Thrissur | 214.612 | 520.415 | 855.603 | 141.966 | 1732.596 (7.6) |
| 10. | Palakkad | 143.507 | 749.741 | 619.253 | 155.465 | 1666.966 (7.3) |
| 11. | Manjeri | 249.869 | 322.315 | 990.153 | 552.686 | 2115.023 (9.3) |
| 12. | Kozhikode | 182.209 | 103.919 | 761.378 | 376.688 | 1504.192 (6.6) |
| 13. | Wayanad | 90.670 | 277.031 | 184.892 | 205.563 | 758.156 (3.3) |
| 14. | Kannur | 135.219 | 220.209 | 1043.418 | 385.609 | 1784.455 (7.8) |
| 15. | Badagara | 12.00 | 50.995 | 16.400 | 7.530 | 86.925 (0.4) |
| 16. | Kasaragod | 28.967 | 84.563 | 376.416 | 726.269 | 1216.215 (5.3) |
| Total | | 2360.777 | 5902.226 | 10966.578 | 3633.274 | 22862.855 (100) |

Note :- Figures in brackets denote percentage to total
Source - PWD (R & B).

Appendix - 7.2
Division-wise Statistics of Surface-wise Length of Roads Maintained by
Public Works Department (R & B) As on 1-4-1996 (Kms)

| Sl.No. | Name of Division | Cement Concrete | Bleck Topped | Water Bound | Macedam | Others | Total |
|--------------|--------------------|------------------|----------------------|-------------------|--------------------|--------------------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 1. | Thiruvananthapuram | .. | 1768.456 | 89.335 | .. | 1857.791 | |
| 2. | Kollam | 0.200 | 1676.865 | 52.472 | 71.945 | 1801.582 | |
| 3. | Alappuzha | .. | 941.135 | 1.342 | 151.866 | 1094.343 | |
| 4. | Pathanamthitta | 0.800 | 1461.859 | 4.000 | 48.322 | 1514.981 | |
| 5. | Kottayam | .. | 1970.638 | 34.899 | 49.294 | 2054.831 | |
| 8. | Idukki | .. | 1071.995 | 38.395 | 493.590 | 1603.980 | |
| 7. | Erenkulam | 0.322 | 799.383 | 13.313 | 36.545 | 849.563 | |
| 8. | Muvattupuzhe | .. | 1184.271 | 7.665 | 29.320 | 1221.256 | |
| 9. | Thrissur | 6.680 | 1559.776 | 103.150 | 62.990 | 1732.596 | |
| 10. | Palakkad | .. | 1495.741 | 41.895 | 129.330 | 1666.966 | |
| 11. | Manjeri | .. | 1582.277 | 33.480 | 499.266 | 2115.023 | |
| 12. | Kozhikode | 1.183 | 1166.284 | 10.970 | 325.755 | 1504.192 | |
| 13. | Wayanad | .. | 645.551 | 14.940 | 97.665 | 758.156 | |
| 14. | Kannur | 4.112 | 1382.734 | 2.000 | 385.609 | 1784.455 | |
| 15. | Vadakara | .. | 55.170 | .. | 31.755 | 86.925 | |
| 18. | Kasaragod | .. | 897.957 | 4.300 | 313.958 | 1216.215 | |
| Total | | 13.297 (0.06) | 19670.182 (86.03) | 152.156 (1.88) | 2727.21 (11.83) | 22862.855 (100) | |

Note :- Figures in brackets indicate percentage to the total

Source :- PWD (R & B)

Appendix - 7.3
CATEGORY-WISE GROWTH OF MOTOR VEHICLES IN KERALA

| Sl.No. | Type of Vehicles | 1975 | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--------|---------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| I. | Goods Vehicles | | | | | | | | | | |
| 1) | Four wheelers and above | 15785 | 20128 | 36699 | 51530 | 54753 | 57370 | 68176 | 78514 | 88180 | 97714 |
| 2) | Three wheelers including Tempos | .. | 993 | 4170 | 9576 | 11437 | 13719 | 9160 | 9941 | 12072 | 14048 |
| II. | Buses | | | | | | | | | | |
| 1) | Stage Carriages & | 7828 | 8705 | 12910 | 15056 | 15606 | 15852 | 16883 | 18263 | 19988 | 21514 |
| 2) | Contract Carriages/Omni buses | .. | 842 | 2324 | 5234 | 5848 | 6981 | 8462 | 12107 | 14874 | 16663 |
| III. | Cars and Station Wagons | | | | | | | | | | |
| 1) | Cars | 54381 | 75731 | 116676 | 125769 | 129232 | 135299 | 144400 | 155150 | 171801 | .. |
| 2) | Station Wagons | .. | 196 | 507 | 849 | 891 | 946 | .. | .. | .. | .. |
| 3) | Taxi Cars | 11525 | 17780 | 28189 | 37638 | 37830 | 36999 | 40931 | 49843 | 54681 | 57482 |
| 4) | Jeeps | 5859 | 70223 | 12972 | 24351 | 26133 | 27302 | 29334 | 32563 | 37774 | 44639 |
| IV | Three Wheelers | | | | | | | | | | |
| 1) | Autofickshaws | 3125 | 7397 | 24383 | 58165 | 67317 | 75211 | 83725 | 92296 | 103465 | 127913 |
| 2) | Motorised Cycle rickshaw | .. | 38 | 34 | 62 | 53 | 57 | 48 | 80 | 77 | 62 |
| V. | Two Wheelers | | | | | | | | | | |
| 1) | Motorised Cycle | .. | 58 | 73 | 70 | 63 | 63 | 63 | 63 | 63 | 565 |
| 2) | Scooter/Motor Cycles | 25769 | 50493 | 11629 | 248374 | 288498 | 330316 | 369537 | 428641 | 496873 | 591923 |
| VI. | Tractor Trailers Articulated | 2735 | 1864 | 2104 | 2661 | 2660 | 2781 | 2803 | 2975 | 3388 | 4544 |
| VII | Tractors | .. | 1892 | 3089 | 4115 | 4305 | 4573 | 4315 | 4691 | 5045 | 5296 |
| VIII | Trillers | .. | 469 | 1118 | 1927 | 2069 | 2330 | 3225 | 4089 | 4626 | 4504 |
| IX | Trailers | .. | 260 | 416 | 580 | 506 | 592 | 621 | 682 | 763 | 760 |
| X | Others | 2507* | 1735 | 2891 | 4190 | 3954 | 3815 | 8818 | 8524 | 8903 | 2430 |
| | Total | 119720 | 174254 | 319259 | 581054 | 647742 | 708172 | 781395 | 887672 | 1005922 | 1170241 |
| | Percentage increase over the previous year | .. | 13.01 | 15.26 | 11.03 | 11.48 | 9.3 | 10.34 | 13.6 | 13.3 | 16.34 |

* include Tractors, Trillers and Trailers.

Source :- Motor Vehicles Department

Appendix - 7.4
Number of Motor Vehicles having valid registration as on 31.3.1996

| Sl.No. | District | Goods Vehicles | | | Buses | | | | Four Wheelers Cars and station wagons | | | | Three Wheelers | | | | Two wheelers | | | | Tractors | | | |
|--------|--------------------|-------------------------|---------------------------------|----------------|-----------------|-------------------------------|----------|----------------|---------------------------------------|---------------|----------------|-------------------------|----------------|------------------|-------------|----------------|-------------------------|----------------|------------------|----------|----------|-------|-------|--|
| | | Four Wheelers and above | Three wheelers including Tempos | Trise wheelers | Stage carriages | Contract carriages/omni buses | Cars | Station wagons | Taxis | Jeeps | Auto-rickshaws | Motored cycle rickshaws | Motored cycles | Motorised cycles | Jeeps | Auto-rickshaws | Motored cycle rickshaws | Motored cycles | Motorised cycles | Tractors | Trailers | Other | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1. | Thiruvananthapuram | 83% | 1239 | 6522 | 4356 | 25534 | - | 5629 | 4375 | 13192 | - | - | 98869 | 242 | 160 | 196 | 43 | 1346 | 16611 | | | | | |
| 2. | Kollam | 6876 | 602 | 490 | 1177 | 19336 | - | 2797 | 2101 | 9254 | 13 | 511 | 44097 | 188 | 134 | 252 | 89 | 588 | 88484 | | | | | |
| 3. | Pathanamthitta | 6828 | 324 | 471 | 444 | 11531 | - | 4713 | 1175 | 4916 | - | - | 24846 | 52 | 81 | 149 | 20 | 247 | 55797 | | | | | |
| 4. | Alappuzha | 4053 | 1248 | 570 | 882 | 10399 | - | 4797 | 526 | 7120 | 2 | 3 | 37762 | 20 | 261 | 500 | 64 | 95 | 68294 | | | | | |
| 5. | Kottayam | 8089 | 1459 | 1431 | 2110 | 14526 | - | 4544 | 4298 | 9883 | 37 | - | 51070 | 148 | 312 | 377 | 73 | 1702 | 100059 | | | | | |
| 8. | Idukki | 2421 | 484 | 353 | 487 | 3469 | - | 1961 | 2970 | 1880 | 1 | 9 | 6471 | 352 | 83 | 121 | 24 | 170 | 20856 | | | | | |
| 7. | Ernakulam | 19779 | 2759 | 2232 | 1805 | 28656 | - | 5692 | 3236 | 14280 | 7 | 3 | 113746 | 443 | 440 | 906 | 89 | 2492 | 196566 | | | | | |
| 8. | Thrissur | 8983 | 1753 | 2806 | 1774 | 13640 | - | 8370 | 1140 | 19082 | - | 33 | 74817 | 424 | 416 | 1164 | 120 | 604 | 135134 | | | | | |
| 9. | Palakkad | 7202 | 580 | 1055 | 964 | 7289 | - | 4350 | 1986 | 6849 | - | 5 | 36252 | 690 | 2652 | 685 | 52 | 269 | 70853 | | | | | |
| 10. | Malappuram | 7731 | 1960 | 1277 | 1214 | 7365 | - | 7183 | 6225 | 13963 | - | - | 20972 | 423 | 534 | 142 | 100 | 341 | 69450 | | | | | |
| 11. | Kozhikode | 8026 | 936 | 1765 | 1093 | 21210 | - | 4440 | 6252 | 9887 | 1 | 1 | 47404 | 133 | 117 | 139 | 49 | 1073 | 102526 | | | | | |
| 12. | Wayanadu | 1265 | 177 | 181 | 161 | 960 | - | 1051 | 2221 | 2050 | - | - | 4933 | 599 | 37 | 190 | 1 | 61 | 13888 | | | | | |
| 13. | Kannur | 6060 | 585 | 1888 | 965 | 4655 | - | 3258 | 3256 | 10217 | 1 | - | 24003 | 173 | 10 | 130 | 6 | 617 | 55824 | | | | | |
| 14. | Kasargode | 2005 | 342 | 473 | 251 | 3231 | - | 1080 | 2495 | 5320 | - | - | 10877 | 21 | 69 | 189 | 30 | 27 | 26400 | | | | | |
| | Total | 97714 | 14048 | 21514 | 17683 | 171801 | - | 59865 | 42256 | 127893 | 62 | 565 | 592123 | 3908 | 5296 | 5140 | 760 | 9613 | 1170241 | | | | | |

Source : Motor Vehicle Department

Appendix - 7.5
Number of Vehicles newly registered in the state during the year 1995-96 (District-Wise)

| Sl.No. | District | Goods Vehicles | | | Buses | | | Four Wheelers Cars and station wagons | | | Three Wheelers | | | Two wheelers | | | | | Tractors | | | | |
|--------|--------------------|-------------------------|---------------------------------|-------------|-----------------|-------------------------------|----------|---------------------------------------|-------------|--------------|----------------|---------------------------|------------------|--------------|-------------------------|------------|----------|------------|---------------|----------|-------|-------|--|
| | | Four Wheelers and above | Three wheelers including Tempos | Trucks | Stage carriages | Contract carriages/omni-buses | Cars | Station wagons | Taxis | Jeeps | Auto-rickshaws | Motorised cycle rickshaws | Motorised cycles | Motor cycles | Scooters / Motor cycles | Tractors | Trailers | Tractors | Tractors | Trailers | Other | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1. | Thiruvananthapuram | 413 | 223 | 484 | 640 | 1018 | - | 1101 | 335 | 2192 | - | - | 14400 | 2 | 6 | 3 | - | 167 | 21021 | | | | |
| 2. | Kollam | 1323 | 278 | 13 | 167 | 1901 | - | 261 | 247 | 2481 | - | 502 | 7615 | 9 | 12 | 44 | - | 67 | 14918 | | | | |
| 3. | Pathanamthitta | 402 | 51 | 236 | 101 | 511 | - | 481 | 110 | 819 | - | - | 3620 | - | 8 | 10 | - | 27 | 6163 | | | | |
| 4. | Alappuzha | 853 | 306 | 37 | 154 | 781 | - | 200 | 49 | 522 | - | - | 5748 | - | 4 | 35 | - | 11 | 8299 | | | | |
| 5. | Kottayam | 622 | 126 | 101 | 288 | 1546 | - | 166 | 472 | 1547 | - | - | 4659 | 7 | 13 | 20 | 1 | 19 | 9566 | | | | |
| 6. | Idukki | 198 | 18 | 85 | 39 | 125 | - | 15 | 310 | 122 | - | - | 990 | 2 | 17 | 22 | - | 3 | 1947 | | | | |
| 7. | Ernakulam | 3309 | 173 | 189 | 247 | 3234 | - | 542 | 341 | 5078 | - | - | 19906 | 6 | 30 | 73 | 1 | 68 | 33196 | | | | |
| 8. | Thrissur | 402 | 149 | 51 | 139 | 353 | - | 58 | 237 | 847 | - | - | 11274 | 129 | 169 | 73 | - | 22 | 8371 | | | | |
| 9. | Palakkad | 870 | 297 | 78 | 57 | 1270 | - | 104 | 154 | 1777 | - | - | 5789 | 8 | 29 | 32 | - | 30 | 15843 | | | | |
| 10. | Malappuram | 548 | 482 | 322 | 174 | 137 | - | 995 | 320 | 2448 | - | - | 3575 | 57 | 100 | 4 | - | 6 | 9563 | | | | |
| 11. | Kozhikode | 700 | 68 | 134 | 50 | 820 | - | 858 | 366 | 1381 | - | - | 6603 | 27 | 2 | 15 | - | - | 11043 | | | | |
| 12. | Wayanadu | 111 | 34 | 27 | 21 | 96 | - | 61 | 148 | 547 | - | - | 811 | 129 | 6 | 26 | - | 66 | 2005 | | | | |
| 13. | Kannur | 630 | 77 | 209 | 83 | 503 | - | 154 | 360 | 1287 | - | - | 2938 | 7 | 3 | 42 | 1 | 35 | 6374 | | | | |
| 14. | Kasaragod | 203 | 26 | 28 | 38 | 263 | - | 56 | 155 | 926 | - | - | 1305 | 2 | 93 | 7 | - | - | 3100 | | | | |
| | Total | 10394 | 2306 | 1781 | 2178 | 12558 | - | 5052 | 3604 | 21974 | - | 502 | 89233 | 385 | 492 | 406 | 3 | 521 | 151218 | | | | |

Appendix - 7.6

DISTRICT-WISE GROWTH OF MOTOR VEHICLES IN KERALA AND THEIR INDEX (base 1980-81 = 100)

| Sl.No. | District | 1980-81 | | 1985-86 | | 1990-91 | | 1991-92 | | 1992-93 | | 1993-94 | | 1994-95 | | 1995-96 | |
|--------|--------------------|----------------------|-------|----------------------|--------|----------------------|---------|----------------------|---------|----------------------|---------|----------------------|---------|----------------------|---------|----------------------|---------|
| | | Motor Vehicles (Nos) | Index | Motor Vehicles (Nos) | Index | Motor Vehicles (Nos) | Index | Motor Vehicles (Nos) | Index | Motor Vehicles (Nos) | Index | Motor Vehicles (Nos) | Index | Motor Vehicles (Nos) | Index | Motor Vehicles (Nos) | Index |
| 1. | 2. | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 1. | Thiruvananthapuram | 38873 | 100 | 61484 | 158.98 | 101980 | 263.70 | 113822 | 294.31 | 120868 | 312.54 | 132119 | 341.63 | 144775 | 374.38 | 166111 | 458.27 |
| 2. | Kollam | 18953 | 100 | 34212 | 181.47 | 57694 | 306.02 | 58023 | 307.78 | 62871 | 333.48 | 68474 | 363.2 | 70957 | 378.38 | 88484 | 555.89 |
| 3. | Pathanamthitta | .. | .. | 13318 | 599.01 | 35555 | 1598.42 | 40048 | 1801.52 | 43047 | 1938.43 | 47121 | 2119.70 | 52415 | 2537.85 | 55797 | 3088.18 |
| 4. | Alappuzha | 15549 | 100 | 25025 | 160.84 | 39545 | 264.33 | 43288 | 279.39 | 46560 | 289.44 | 51406 | 330.81 | 58877 | 378.65 | 68254 | 480.89 |
| 5. | Kottayam | 12647 | 100 | 21041 | 188.37 | 39758 | 314.37 | 44695 | 353.40 | 56996 | 450.87 | 78105 | 601.78 | 86499 | 683.95 | 100058 | 852.80 |
| 6. | Idukki | 4656 | 100 | 8097 | 173.90 | 12812 | 275.17 | 13818 | 296.79 | 15300 | 328.81 | 16808 | 363.14 | 18898 | 407.99 | 20856 | 703.33 |
| 7. | Eranakulam | 34126 | 100 | 59611 | 174.87 | 105622 | 309.49 | 115605 | 338.73 | 124951 | 368.12 | 140732 | 412.37 | 183107 | 477.83 | 196565 | 847.41 |
| 8. | Trissur | 19083 | 100 | 36883 | 192.28 | 70831 | 371.17 | 79421 | 418.18 | 89989 | 471.57 | 101847 | 533.71 | 117995 | 818.33 | 135134 | 785.09 |
| 8. | Palakkad | 11656 | 100 | 20041 | 171.84 | 37623 | 322.76 | 42272 | 362.68 | 48065 | 395.12 | 54883 | 488.14 | 81847 | 530.60 | 70853 | 627.54 |
| 10. | Melappuram | 7926 | 100 | 16805 | 209.50 | 30671 | 386.97 | 35032 | 441.98 | 40439 | 510.20 | 48642 | 613.70 | 57900 | 728.72 | 89450 | 1011.35 |
| 11. | Kozhikode | 17330 | 100 | 29448 | 169.92 | 55939 | 322.79 | 62105 | 358.38 | 68973 | 388.00 | 77447 | 448.90 | 91388 | 527.22 | 102528 | 656.14 |
| 12. | Wayanad | .. | .. | 4703 | 202.11 | 8379 | 360.08 | 9082 | 390.28 | 9733 | 418.26 | 10482 | 450.68 | 11943 | 513.24 | 13888 | 748.88 |
| 13. | Kannur | 14096 | 100 | 24478 | 173.65 | 36540 | 259.22 | 34764 | 246.62 | 37716 | 267.57 | 41940 | 297.53 | 47173 | 334.88 | 55824 | 443.15 |
| 14. | Kasaragod | .. | .. | 6863 | 124.46 | 14793 | 268.28 | 16196 | 283.72 | 17900 | 324.63 | 19758 | 358.28 | 22370 | 405.69 | 28400 | 583.69 |
| | Total | 194597 | 100 | 361617 | 185.83 | 647742 | 332.86 | 708172 | 363.81 | 781398 | 401.55 | 887872 | 456.18 | 1005922 | 518.83 | 1170241 | 878.12 |

Note : For Pathanamthitta, Wayanad and Kasargod the years 1982-83, 1981-82 and 1984-85 are taken as base respectively.

Source : Motor Vehicles Department.

Appendix 7.7

ROAD ACCIDENTS IN KERALA IN WHICH MOTOR VEHICLES WERE INVOLVED DURING 1994-95 AND 1995-96

| Sl. No. | Name of District | No. of Accident | | Increase/decrease(%) | No. of persons Injured | | Increase/Decrease (%) | No. of persons Killed | | Increase/Decrease (%) |
|---------|--------------------|-----------------|---------|----------------------|------------------------|---------|-----------------------|-----------------------|---------|-----------------------|
| | | 1994-95 | 1995-96 | | 1994-95 | 1995-96 | | 1994-95 | 1995-96 | |
| 1 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Thiruvananthapuram | 4399 | 4152 | -5.6 | 4660 | 4957 | 6.4 | 295 | 278 | -5.8 |
| 2. | Kollam | 3304 | 3192 | -3.4 | 4555 | 4703 | 3.2 | 180 | 207 | 15.0 |
| 3. | Pathanamthitta | 1210 | 1397 | 15.5 | 1584 | 1633 | 3.1 | 82 | 108 | 31.7 |
| 4. | Alappuzha | 2732 | 2893 | 5.9 | 3820 | 3888 | 1.2 | 178 | 185 | 3.9 |
| 5. | Kottayam | 2911 | 2647 | -9.1 | 3259 | 3486 | 7.0 | 120 | 145 | 20.8 |
| 6. | Idukki | 935 | 890 | -4.8 | 1742 | 1809 | 3.8 | 54 | 49 | -9.3 |
| 7. | Ernakulam | 6192 | 6690 | 8.0 | 7129 | 8177 | 14.7 | 373 | 408 | 9.4 |
| 8. | Thirissur | 2944 | 2986 | 1.4 | 3935 | 4086 | 3.8 | 256 | 304 | 18.8 |
| 9. | Palakkad | 2065 | 2219 | 7.5 | 3861 | 3846 | 0.4 | 257 | 243 | -5.4 |
| 10. | Malappuram | 2876 | 2806 | -2.4 | 5008 | 5178 | 3.4 | 269 | 266 | -1.1 |
| 11. | Kozhikode | 3424 | 3568 | 4.2 | 4931 | 5250 | 6.5 | 219 | 237 | 8.2 |
| 12. | Wayanad | 738 | 818 | 10.8 | 1285 | 1372 | 6.8 | 49 | 38 | 22.4 |
| 13. | Kannur | 1683 | 2005 | 20.6 | 3140 | 3497 | 11.4 | 121 | 155 | 28.1 |
| 14. | Kasaragode | 693 | 860 | 24.1 | 1041 | 1593 | 53.0 | 76 | 84 | 10.5 |
| | Total | 36086 | 37123 | 2.9 | 49950 | 53475 | 7.1 | 2519 | 2707 | 7.5 |

Source :- Director General of Police.

Appendix 7.8
MOTOR VEHICLE ACCIDENTS IN KERALA BY PRIMARY CAUSES OF ACCIDENTS 1995-96

| Sl. No. | District | Fault of driver of motor vehicle | Fault of driver of other than motor vehicle | Fault of cyclist | Fault of pedestrian | Fault of passenger | defect of motor vehicle | defect in road surface | bad whether condition | other causes | causes not known | Total |
|---------|--------------------|----------------------------------|---------------------------------------------|------------------|---------------------|--------------------|-------------------------|------------------------|-----------------------|--------------|------------------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1. | Thiruvananthapuram | 3414 | 68 | 9 | 140 | 67 | 133 | - | - | 321 | - | 4152 |
| 2. | Kollam | 3192 | - | - | - | - | - | - | - | - | - | 3192 |
| 3. | Pathanamthitta | 1282 | - | 8 | 15 | 25 | - | 13 | - | 42 | 12 | 1397 |
| 4. | Alappuzha | 2870 | - | 5 | 4 | 3 | - | - | - | 8 | 3 | 2893 |
| 5. | Kottayam | 2524 | 1 | 12 | 19 | 3 | 34 | 15 | 4 | 10 | 25 | 2647 |
| 6. | Idukki | 859 | - | - | - | - | 31 | - | - | - | - | 890 |
| 7. | Ernakulam | 6600 | - | 4 | 22 | 7 | 1 | 1 | - | 46 | 9 | 6690 |
| 8. | Thrissur | 2915 | - | - | 11 | 19 | 41 | - | - | - | - | 2986 |
| 9. | Palakkad | 2215 | - | - | 2 | 1 | 1 | - | - | - | - | 2219 |
| 10. | Malappuram | 2790 | - | 1 | 1 | 1 | 10 | - | - | 3 | - | 2806 |
| 11. | Kozhikode | 3409 | 14 | 24 | 60 | 56 | 5 | - | - | - | - | 3568 |
| 12. | Wayanad | 804 | - | 4 | - | 2 | - | - | 6 | - | 818 | - |
| 13. | Kannur | 2004 | - | - | - | - | 1 | - | - | - | - | 2005 |
| 14. | Kasaragode | 852 | - | 2 | 2 | - | - | - | 1 | 2 | 1 | 860 |
| Total | | 35730 | 83 | 69 | 276 | 184 | 259 | 29 | 5 | 438 | 50 | 37123 |
| | | (96.25) | (0.22) | (0.19) | (0.74) | (0.49) | (0.71) | (0.08) | (0.01) | (1.18) | (0.13) | (100) |

Note :- Figures in Brackets denote percentage to total
 Source:- Director General of Police

Appendix 7.9
NUMBER OF ROAD ACCIDENTS BY CLASS OF VEHICLES INVOLVED DURING 1995-96

| Sl. No. | District | KSRTC buses | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---------|--------------------|--------------|----------------|---------------|---------------|----------------|---------------|-----------------|-----------------|---------------|--------------|----|
| | | Other buses | Goods vehicles | Taxi cars | Motor cars | Auto rickshaws | Two wheelers | Misce. vehicles | Class not known | Total | | |
| 1. | Thiruvananthapuram | 681 | 150 | 281 | 513 | 363 | 745 | 956 | 431 | 32 | 4152 | |
| 2. | Kollam | 179 | 462 | 464 | 196 | 286 | 632 | 670 | 286 | 17 | 3192 | |
| 3. | Pathanamthitta | 48 | 269 | 161 | 220 | 81 | 267 | 257 | 68 | 26 | 1397 | |
| 4. | Alappuzha | 200 | 347 | 465 | 240 | 212 | 587 | 1068 | 166 | - | 3285 | |
| 5. | Kottayam | 124 | 482 | 279 | 685 | 272 | 374 | 397 | 22 | 12 | 2647 | |
| 6. | Idukki | 9 | 201 | 97 | 265 | 61 | 259 | 222 | 45 | - | 1159 | |
| 7. | Emakulam | 160 | 1388 | 720 | 484 | 423 | 1085 | 1927 | 654 | 19 | 6860 | |
| 8. | Thrissur | 77 | 743 | 403 | 288 | 270 | 659 | 763 | 166 | 21 | 3390 | |
| 9. | Palakkad | 41 | 620 | 404 | 528 | 132 | 502 | 590 | 161 | 13 | 2991 | |
| 10. | Malappuram | 25 | 641 | 317 | 108 | 53 | 712 | 255 | 691 | 4 | 2806 | |
| 11. | Kozhikode | 58 | 1078 | 354 | 299 | 195 | 575 | 645 | 452 | 7 | 3663 | |
| 12. | Wayanad | 34 | 97 | 82 | 262 | 9 | 229 | 136 | 61 | 3 | 913 | |
| 13. | Kannur | 32 | 668 | 241 | 286 | 127 | 300 | 265 | 77 | 9 | 2005 | |
| 14. | Kasaragode | 9 | 231 | 140 | 88 | 52 | 208 | 128 | 130 | 3 | 989 | |
| | Total | 1677 | 7377 | 4408 | 4462 | 2536 | 7134 | 8279 | 3410 | 166 | 39449 | |
| | | (4.3) | (18.7) | (11.2) | (11.3) | (6.4) | (18.1) | (21.0) | (8.6) | (1.11) | (100) | |

Note:- Figures in brackets denote percentage to total

Source:- Director General of Police

Appendix 7.10
MOTOR VEHICLE ACCIDENTS BY TIME OF DAY DURING 1995-96

| SI.No. | Name of District | 3 | 4 | 5 | Total |
|--------|--------------------|-----------|----------|----------------|-------|
| 1 | 2 | day light | darkness | time not known | 6 |
| 1. | Thiruvananthapuram | 2682 | 1470 | - | 4152 |
| 2. | Kollam | 2342 | 850 | - | 3192 |
| 3. | Pathanamthitta | 946 | 439 | 12 | 1397 |
| 4. | Alappuzha | 1950 | 916 | 27 | 2893 |
| 5. | Kottayam | 2092 | 551 | 4 | 2647 |
| 6. | Idukki | 712 | 165 | 13 | 890 |
| 7. | Emakulam | 5585 | 1062 | 43 | 6690 |
| 8. | Thrissur | 2150 | 836 | - | 2986 |
| 9. | Palakkad | 1718 | 501 | - | 2219 |
| 10. | Malappuram | 2384 | 422 | - | 2806 |
| 11. | Kozhikode | 2923 | 643 | 2 | 3568 |
| 12. | Wayanad | 636 | 182 | - | 818 |
| 13. | Kannur | 1969 | 36 | - | 2005 |
| 14. | Kasaragode | 695 | 165 | - | 860 |
| Total | | 28784 | 8238 | 101 | 37123 |
| | | (77.5) | (22.2) | (0.3) | (100) |

Note:- Figures in brackets denote percentage to total

Source:- Director General of Police

Appendix - 7.11
K.S.R.T.C Operational Statistics 1995 - 96

| Sl.No. | Name of Transport Unit | No. of Buses held as on 31.3.96 | No. of Sch. as on 31.3.96 | No. of routes as on 31.3.96 | Route District | Gross Operated (lakhs) | Eff.Km. operated (lakhs) | Passengers carried (lakhs) | Average carrying capacity/ per bus |
|--------|------------------------|---------------------------------|---------------------------|-----------------------------|----------------|------------------------|--------------------------|----------------------------|------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Parasala | 64 | 55 | 52 | 1298 | 56.3 | 56.3 | 170.1 | 55 |
| 2. | Neyyattinkara | 99 | 92 | 106 | 3322 | 90.8 | 90.8 | 398.4 | 55 |
| 3. | Poovar | 60 | 53 | 34 | 1100 | 48.6 | 48.5 | 263.6 | 55 |
| 4. | Vizhinjam | 60 | 51 | 95 | 3160 | 43.5 | 43.5 | 210.8 | 55 |
| 5. | Kattakkada | 83 | 82 | 108 | 3472 | 75.4 | 75.4 | 279.0 | 55 |
| 8. | Thiruvananthapuram Ci. | 133 | 103 | 160 | 6815 | 182.8 | 182.8 | 318.2 | 55 |
| 7. | Pappanamcode | 137 | 126 | 220 | 2840 | 91.1 | 91.1 | 484.4 | 50 |
| 8. | Thiruvananthapuram Cy. | 212 | 196 | 250 | 2765 | 124.5 | 123.6 | 603.1 | 50 |
| 9. | Vikas Bhavan | .. | .. | .. | .. | .. | .. | .. | .. |
| 10. | Peroorkada | 91 | 88 | 86 | 2205 | 63.0 | 63.0 | 302.5 | 50 |
| 11. | Nedumangad + Palode | 116 | 119 | 165 | 4790 | 106.7 | 106.5 | 358.1 | 55 |
| 12. | Kilimanoor | 66 | 66 | 79 | 1752 | 60.4 | 60.4 | 200.4 | 56 |
| 13. | Attingal | 110 | 101 | 122 | 4054 | 110.0 | 110.0 | 304.4 | 55 |
| 14. | Kollam | 99 | 97 | 118 | 5082 | 94.0 | 94.0 | 376.3 | 54 |
| 15. | Kottarakkara | 125 | 110 | 136 | 4324 | 130.5 | 130.4 | 483.5 | 55 |
| 16. | Punalur | 75 | 70 | 148 | 5078 | 67.0 | 67.0 | 219.9 | 58 |
| 17. | Pathanamthitta | 44 | 40 | 85 | 5329 | 45.5 | 45.5 | 106.8 | 56 |
| 18. | Adoor | 46 | 48 | 105 | 3704 | 43.8 | 43.8 | 138.2 | 55 |
| 19. | Karunagappally | 59 | 54 | 93 | 3705 | 54.7 | 54.6 | 204.6 | 56 |
| 20. | Kayamkulam | 68 | 61 | 95 | 4092 | 61.8 | 61.8 | 215.2 | 56 |
| 21. | Harippad | 28 | 25 | 28 | 1791 | 29.4 | 29.4 | 79.3 | 58 |
| 22. | Mavelikara | 36 | 35 | 51 | 2128 | 35.2 | 35.2 | 90.1 | 56 |
| 23. | Alappuzha | 97 | 93 | 92 | 2702 | 103.7 | 103.6 | 305.2 | 55 |
| 24. | Cherthala | 77 | 68 | 106 | 3185 | 73.2 | 73.2 | 224.4 | 57 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------|-----------------|------|------|------|--------|--------|--------|---------|------|
| 25. | Chengannur | 45 | 41 | 94 | 3227 | 43.4 | 43.4 | 140.5 | 55 |
| 26. | Thiruvalla | 46 | 44 | 112 | 4168 | 44.5 | 44.5 | 168.0 | 55 |
| 27. | Changanassery | 49 | 46 | 49 | 2910 | 47.2 | 47.2 | 161.3 | 55 |
| 28. | Kottayam | 97 | 91 | 120 | 8990 | 110.2 | 109.9 | 325.5 | 57 |
| 29. | Ponkunnam | 17 | 15 | 24 | 2340 | 19.2 | 19.2 | 50.7 | 60 |
| 30. | Pala | 48 | 43 | 60 | 3213 | 50.9 | 50.9 | 104.2 | 56 |
| 31. | Erattupatta | 34 | 31 | 54 | 2120 | 33.1 | 33.1 | 83.8 | 55 |
| 32. | Vaikom | 34 | 30 | 35 | 1780 | 34.9 | 34.9 | 62.1 | 56 |
| 33. | Muvattupuzha | 55 | 51 | 56 | 2842 | 52.9 | 52.9 | 185.6 | 60 |
| 34. | Thodupuzha | 29 | 26 | 48 | 2065 | 32.2 | 32.2 | 42.7 | 52 |
| 35. | Kothamangalam | 25 | 22 | 40 | 2190 | 28.4 | 28.4 | 46.3 | 54 |
| 36. | Ernakulam | 68 | 46 | 48 | 3526 | 87.2 | 87.2 | 103.9 | 54 |
| 37. | Aluva | 81 | 71 | 75 | 3364 | 69.0 | 69.0 | 283.6 | 51 |
| 38. | Ankamaly | 36 | 33 | 43 | 3376 | 34.1 | 34.1 | 121.5 | 54 |
| 39. | North Paravur | 45 | 36 | 30 | 3441 | 40.4 | 40.4 | 139.4 | 65 |
| 40. | Perumbavoor | 45 | 38 | 30 | 2828 | 49.5 | 49.5 | 96.7 | 56 |
| 41. | Chalakkudy | 45 | 34 | 30 | 2045 | 43.7 | 43.7 | 89.0 | 55 |
| 42. | Mala | 84 | 76 | 41 | 4466 | 101.7 | 101.6 | 182.3 | 55 |
| 43. | Thrissur | 13 | 11 | 16 | 963 | 12.2 | 12.2 | 36.7 | 55 |
| 44. | Puthukkad | 32 | 26 | 22 | 2749 | 48.1 | 48.1 | 39.6 | 55 |
| 45. | Guruvayoor | 11 | 8 | 15 | 2281 | 14.4 | 14.4 | 15.9 | 56 |
| 46. | Ponnani | 18 | 14 | 18 | 3525 | 18.8 | 18.8 | 33.5 | 55 |
| 47. | Parinthalmanna | 91 | 82 | 45 | 4695 | 131.2 | 131.2 | 165.9 | 54 |
| 48. | Palakkad | 31 | 24 | 22 | 2317 | 35.1 | 35.1 | 64.6 | 55 |
| 49. | Malappuram | 85 | 79 | 74 | 5360 | 101.2 | 101.8 | 198.4 | 54 |
| 50. | Kozhikkode | 29 | 28 | 30 | 1520 | 25.3 | 25.3 | 87.6 | 55 |
| 51. | Thamarassery | 71 | 64 | 75 | 3516 | 70.3 | 70.3 | 168.3 | 54 |
| 52. | Sulthan Bathery | 83 | 70 | 70 | 6185 | 90.6 | 90.6 | 200.0 | 54 |
| 53. | Kannur | 43 | 40 | 25 | 1512 | 40.3 | 40.3 | 110.8 | 54 |
| 54. | Payyannur | 47 | 44 | 25 | 2135 | 40.6 | 40.6 | 132.0 | 55 |
| 55. | Kasaragode | 52 | 46 | 41 | 1362 | 47.5 | 47.5 | 103.7 | 55 |
| 56. | Mananthavady | 31 | 28 | 60 | 2372 | 29.2 | 29.2 | 81.7 | 55 |
| 57. | Kaipatta | 3505 | 3171 | 4061 | 178226 | 3419.8 | 3417.8 | 10152.8 | 54.7 |
| Total | | 3505 | 3171 | 4061 | 178226 | 3419.8 | 3417.8 | 10152.8 | 54.7 |

Appendix - 7.12
REVISION OF FARE STRUCTURE OF K.S.R.T.C. DURING 1995 - 96 AND UPTO 30.11.96

| Sl.No. | Type of Service | Basic Fare | | | Minimum Fare | | |
|--------|-----------------|----------------------------------------|----------------------------------|-----------------------------------|-------------------------------------|------------------------------------|------------------------------------|
| | | Basic Fare during 1995-96 (Per KM/psc) | Basic Fare upto 30.11.96 (KM/PS) | Basic Fare during 1995-96 (in ps) | Minimum Fare during 1995-96 (in ps) | Minimum Fare upto 30.11.96 (in ps) | Minimum Fare upto 30.11.96 (in ps) |
| 1 | 2 | 3 | 4 | 5 | 6 | 6 | |
| 1. | City | 18 | 22 | 100 | 125 | 125 | |
| 2. | Ordinary | 18 | 22 | 100 | 125 | 125 | |
| 3. | Fast Passenger | 22 | 27 | 150 | 200 | 200 | |
| 4. | Super Fast | 24 | 29 | 300 | 300 | 300 | |
| 5. | Express | 27 | .. | 500 | .. | .. | |
| 6. | Super Express | 28 | 34 | 500 | 500 | 500 | |
| 7. | Deluxe Express | 30 | .. | 1000 | .. | .. | |
| 8. | Super Deluxe | 32 | 39 | 1000 | 1000 | 1000 | |

Source : K.S.R.T.C

Appendix - 7.13
K.S.R.T.C. Operational Ratios 1995-96

| Sl.No. | Name of Transport Units | Avg.No. of buses held by daily | Avg.km. ran per day per bus | % ege Vehicular utilisation | Avg. Route & length (kms) | Avg.earning per passenger | Avg.distance travelled by a passenger | Earning per km. of buses operated | Earning per vehicles on road per day |
|--------|-------------------------|--------------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|---------------------------------------|-----------------------------------|--------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 10 |
| 1. | Parassala | 59 | 320.6 | 81.4 | 25 | 265.5 | 18.2 | 802 | 2579 |
| 2. | Neyyattinkara | 96 | 295.4 | 87.5 | 31.3 | 178.5 | 12.5 | 783 | 2319 |
| 3. | Poovar | 61 | 301.4 | 72.1 | 32.4 | 143.4 | 10.1 | 779 | 2353 |
| 4. | Vizhinjam | 57 | 290.6 | 71.9 | 33.3 | 175.4 | 11.4 | 850 | 2471 |
| 5. | Kaitakkada | 83 | 298.6 | 83.1 | 32.1 | 240.0 | 11.9 | 873 | 2616 |
| 6. | TVM Central | 130 | 449.8 | 85.4 | 42.6 | 622.9 | 31.6 | 1085 | 4893 |
| 7. | Pappanamcode | 135 | 224.3 | 82.2 | 12.9 | 151.7 | 10.3 | 806 | 1813 |
| 8. | TVM City | 190 | 239.5 | 74.2 | 11.1 | 182.7 | 11.3 | 907 | 2179 |
| 9. | Vikas Bhavan | .. | .. | .. | .. | .. | .. | .. | .. |
| 10. | Peroorkada | 94 | 239.7 | 79.8 | 25.6 | 158.4 | 11.5 | 759 | 1747 |
| 11. | Nedumangad + PLD | 121 | 300.1 | 80.2 | 29.0 | 250.2 | 16.4 | 842 | 2534 |
| 12. | Kilimanoor | 65 | 317.3 | 80.0 | 22.2 | 250.4 | 18.6 | 846 | 2691 |
| 13. | Atingal | 116 | 330.3 | 78.4 | 33.2 | 336.1 | 19.9 | 931 | 3083 |
| 14. | Kollam | 97 | 329.3 | 80.4 | 48.1 | 211.4 | 13.7 | 848 | 2795 |
| 15. | Kottarakkara | 130 | 342.6 | 80.0 | 31.8 | 251.2 | 14.8 | 931 | 3198 |
| 16. | Punalur | 77 | 310.2 | 76.6 | 34.3 | 287.6 | 16.8 | 937 | 2913 |
| 17. | Pathanamthitta | 43 | 336.0 | 86.0 | 62.7 | 402.4 | 23.4 | 946 | 3188 |
| 18. | Adoor + PDLM | 48 | 323.3 | 77.1 | 32.3 | 267.4 | 17.4 | 846 | 2741 |
| 18. | Karunagappally | 59 | 311.1 | 81.4 | 39.0 | 255.3 | 14.7 | 958 | 2982 |
| 20. | Kayamkulam | 69 | 324.8 | 75.7 | 43.1 | 270.0 | 15.8 | 940 | 3062 |
| 21. | Harippad | 29 | 364.7 | 75.9 | 64.0 | 372.2 | 20.4 | 1006 | 3670 |
| 22. | Mavelikkara | 34 | 331.6 | 78.4 | 41.7 | 356.5 | 21.5 | 902 | 2889 |
| 23. | Alappuzhe | 100 | 325.4 | 87.0 | 29.4 | 322.6 | 25.4 | 951 | 3105 |
| 24. | Cherthale | 76 | 322.4 | 81.6 | 30.0 | 283.2 | 28.6 | 869 | 2808 |
| 25. | Chengannur | 45 | 320.2 | 82.2 | 34.3 | 305.1 | 14.2 | 989 | 3177 |
| 26. | Thiruvallie | 45 | 320.2 | 82.2 | 34.3 | 305.1 | 14.2 | 989 | 3177 |
| 27. | Changanacherry | 48 | 314.4 | 85.4 | 59.4 | 283.4 | 16.1 | 970 | 2921 |
| 28. | Kottayam | 102 | 366.3 | 80.4 | 74.9 | 339.8 | 18.6 | 1006 | 3059 |
| 29. | Ponkunnam | 19 | 349.7 | 78.9 | 97.5 | 335.0 | 17.4 | 1060 | 3696 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-----------------------|------|--------|------|-------|--------|------|------|------|
| 30. | Pala | 45 | 366.0 | 84.4 | 53.5 | 434.5 | 26.9 | 890 | 3716 |
| 31. | Erattupetta | 32 | 334.5 | 84.4 | 39.3 | 387.4 | 23.7 | 982 | 3264 |
| 32. | Vaikom | 34 | 340.08 | 82.4 | 60.9 | 490.2 | 30.9 | 872 | 3294 |
| 33. | Muvattupuzha | 57 | 352.3 | 80.4 | 50.6 | 262.0 | 15.7 | 920 | 2980 |
| 34. | Thodupuzha | 29 | 399.7 | 78.6 | 43.0 | 743.1 | 41.5 | 986 | 3952 |
| 35. | Kothamangalam | 25 | 431.6 | 81.8 | 54.8 | 643.9 | 38.2 | 1048 | 4537 |
| 36. | Ernakulam | 68 | 403.9 | 85.5 | 73.5 | 191.5 | 46.2 | 965 | 4009 |
| 37. | Aluva | 54 | 256.1 | 94.3 | 40.9 | 272.8 | 24.8 | 945 | 2355 |
| 38. | North Paravur | 36 | 329.4 | 80.5 | 78.5 | 235.8 | 15.4 | 840 | 2758 |
| 39. | Perumbavoor | 43 | 324.4 | 81.0 | 114.7 | 260.3 | 16.0 | 896 | 2920 |
| 40. | Chalakkudy | 45 | 355.8 | 80.9 | 94.3 | 489.4 | 28.1 | 957 | 3712 |
| 41. | Mala | 38 | 384.8 | 81.6 | 68.2 | 471.4 | 27.0 | 960 | 3689 |
| 42. | Thrissur + ABLR | 84 | 447.8 | 73.8 | 108.9 | 575.9 | 34.4 | 884 | 3260 |
| 43. | Pudukkad | 16 | 3342.8 | 84.6 | 60.2 | 446.9 | 18.3 | 1208 | 3780 |
| 44. | Guruvayoor | 32 | 525.8 | 78.6 | 125.0 | 1209.4 | 66.9 | 780 | 5242 |
| 45. | Ponnai | 11 | 481.7 | 72.7 | 152.1 | 820.8 | 49.7 | 908 | 4479 |
| 46. | Perinthalmanna | 18 | 366.1 | 82.4 | 185.8 | 521.8 | 30.8 | 927 | 3484 |
| 47. | Palakkad + CTR + VDCY | 92 | 442.5 | 88.0 | 104.3 | 740.8 | 43.5 | 937 | 4169 |
| 48. | Malappuram | 31 | 435.7 | 7539 | 105.3 | 488.5 | 29.8 | 897 | 3920 |
| 49. | Kozhikode | 85 | 371.1 | 85.2 | 72.4 | 401.7 | 28.2 | 900 | 3346 |
| 50. | Thamarassery | 29 | 300.7 | 79.3 | 50.7 | 207.4 | 15.9 | 719 | 2187 |
| 51. | Sulthan Bathery | 71 | 336.8 | 75.0 | 46.9 | 354.3 | 23.1 | 849 | 2868 |
| 52. | Kannur | 83 | 348.7 | 86.6 | 88.4 | 341.3 | 24.9 | 753 | 2633 |
| 53. | Payyannur | 43 | 333.9 | 76.7 | 64.5 | 265.0 | 20.0 | 728 | 2436 |
| 54. | Kasaragode | 47 | 299.9 | 84.1 | 87.4 | 240.2 | 16.9 | 781 | 2349 |
| 55. | Mananthavady | 52 | 316.54 | 75.9 | 33.2 | 405.7 | 25.2 | 893 | 2332 |
| 56. | Kalpetta | 33 | 318.8 | 75.8 | 39.5 | 292.4 | 19.6 | 814 | 2603 |
| 57. | Ankamaaly | 23 | 377.3 | 68.7 | 40.7 | 272.8 | 16.1 | 899 | 3807 |
| | Total | 3505 | 333.4 | 80.7 | 43.9 | 16.2 | 16.2 | 902 | 3007 |

APPENDIX 7.14
Commodity-wise cargo handled at the Intermediary and
Minor Ports of Kerala during 1995-96

| Name of Ports | Commodity | (in tonnes) | | | | |
|------------------------|-------------------------------------|-------------|---------|---------|---------|-------------|
| | | Imports | | Exports | | Grand Total |
| | | Coastal | Foreign | Coastal | Foreign | |
| 1. Azhikkal | Timber | - | - | 2188 | - | 2188 |
| 2. Kozhikod Beypore | Food grains | 921 | - | 921 | - | 3081 |
| | Cement | - | - | - | - | 5623 |
| | Granite metal | - | - | - | - | 8551 |
| | River sand | - | - | - | - | 2562 |
| | Timber | - | - | 1080 | - | 1080 |
| | Tiles and bricks | - | - | 3207 | - | 3207 |
| | Fuel oil | - | - | 6800 | - | 6800 |
| | House hold equipments | - | - | 1260 | - | 1260 |
| | Wooden machine | - | - | - | 864 | 864 |
| | Soda ash | 3693 | - | 3693 | - | 3693 |
| | Pig iron | - | 713 | 713 | - | 713 |
| | Bauxite | 2086 | - | 2086 | - | 2086 |
| | Empty barel | 277 | - | 277 | - | 277 |
| | Miscellaneous | 618 | 205 | 823 | 2832 | 3097 |
| 3. Neendakara | Ilmenite | - | - | - | 265 | 265 |
| 4. Vizhinjam | Building Materials/Vegitable / eggs | - | - | - | 116913 | 116913 |
| 5. Kasargode | - | - | - | - | 1815 | 1815 |
| 6. Kannur | - | - | - | - | - | - |
| 7. Talassery | - | - | - | - | - | - |
| 8. Vadakara | - | - | - | - | - | - |
| 9. Ponnani | - | - | - | - | - | - |
| 10. Munambam | - | - | - | - | - | - |
| 11. Alappuzha | - | - | - | - | - | - |
| 12. Trivandrum | - | - | - | - | - | - |
| Total | | - | - | - | - | 165554 |

Source : Directorate of Ports

APPENDIX 7.15
Number and Tonnage of steamers and sailing vessels which called
at the intermediate and Minor ports of Kerala during 1995-96

| Name of Ports | Costal/ Foreign | Steamers | | Sailing vessels | | Total No. of sailing vessels | Total tonnage |
|----------------------------------------|--------------------|----------|---------|-----------------|---------|------------------------------------|------------------|
| | | No. | Tonnage | No. | Tonnage | | |
| 1. Azhikkal | coastal | - | - | 45 | 2188 | 45 | 2188 |
| 2. Kannur | Foreign | 2 | 2070 | - | - | 2 | 2070 |
| 3. Kozhikode/Beyypore | Both | 56 | 11805 | 301 | 37002 | 357 | 48807 |
| 4. Needakara | Foreign | 4 | 83169 | - | - | 4 | 83169 |
| 5. Vizhinjam | Foreign | 7 | 13620 | 3 | 218 | 10 | 13833 |
| 6. Kasargod | - | - | - | - | - | - | - |
| 7. Thalassery | - | - | - | - | - | - | - |
| 8. Vadakara | - | - | - | - | - | - | - |
| 9. Poman | - | - | - | - | - | - | - |
| 10. Munambam | - | - | - | - | - | - | - |
| 11. Alappuzha | - | - | - | - | - | - | - |
| 12. Valiyathura/ Thiruvananthapuram | - | - | - | - | - | - | - |
| Total C | | - | - | 45 | 2188 | 45 | 2188 |
| F | | 69 | 110664 | 304 | 37220 | 373 | 147899 |
| Grand Total | | 69 | 110664 | 349 | 39408 | 418 | 150067 |

Source :- Directorate of ports

APPENDIX 7.16
Details of dredging Operations Conducted at the intermediate
and Minor Ports of Kerala during 1995-96

| 1 | Name of Dredger | Capacity of dredger | Ports dredged | Time (in hours) | Quantity dredged | Dredging for others | | Value (Rs.) |
|----|------------------|---------------------|------------------------|-----------------|------------------------------|---------------------|------------------|--------------------------|
| | | | | | | Agency | Quantity dredged | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| 1. | CSD Meena Kerala | 600 M3/hr | Neendakara | - | 68400 M ³ | - | - | - |
| 2. | CSDNKA | - | - | - | - | - | - | - |
| 3. | Grab dredger | 150 T/hrs | Beyypore Neendakara | 43.38 368.55 | Approximate 6537 55337 | | | |
| | | | King Fisher | 14 hrs | NKA Private | | King fisher | Approximate 21.00 hrs |
| | Total | 540 | 130264 | | | | | |

Source :- Directorate of ports

APPENDIX 7.17

Number of harbour Crafts registered at the Intermediate and Minor Ports of Kerala during 1995-96

| Name of port | Cargo boats including barges | Canoes including boats | mechnised fishing vessels | Others | Total |
|----------------------|------------------------------|------------------------|---------------------------|--------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. Kasargode | - | 80 | - | - | 80 |
| 2. Kannur | - | - | 1 | - | 1 |
| 3. Kozhikode/Beypore | - | - | 7 | - | 7 |
| 4. Munambam | - | - | 74 | - | 74 |
| 5. Alappuzha | - | - | 300 | - | 300 |
| 6. Neendakara | - | - | 144 | - | 144 |
| 7. Azheekal | - | - | - | - | - |
| 8. Thalassery | - | - | - | - | - |
| 9. Vadakara | - | - | - | - | - |
| 10. Ponnani | - | - | - | - | - |
| 11. Trivandrum | - | - | - | - | - |
| 12. Vizhinjam | - | - | - | - | - |
| Total | - | 80 | 526 | - | 606 |

Source :- Direcorate of ports.

APPENDIX 7.18

Category-wise break up of revenue collected at the Intermediate and Minor ports of Kerala during 1995-96

| Name of Port | Port dues | Export/ Inport dues | Tug hire charges | Piletage fees | Miscellaneous | | Private dredging charges | Total |
|-----------------------------|-----------|---------------------|------------------|---------------|-----------------------------|-----------------------------|--------------------------|---------|
| | | | | | Gound rent, shed rent, etc. | Régistration and other fees | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. Kasargode | - | - | - | - | 283400 | 8560 | - | 291960 |
| 2. Azhikkal | 2417 | 16855 | - | - | 26179 | - | - | 45451 |
| 3. Kannur | 2930 | - | - | - | - | 215 | - | 3145 |
| 4. Talassery | - | - | - | - | 64010 | 930 | - | 64940 |
| 5. Vadakara | - | - | - | - | 5300 | - | - | 5300 |
| 6. Kozhikode/ Beypore | 33209 | 351425 | 176977 | 11504 | 1112075 | 9186 | - | 1694376 |
| 7. Ponnani | - | - | - | - | 17216 | - | - | 17216 |
| 8. Munambam | - | - | - | - | - | 83691 | - | 83691 |
| 9. Alappuzha | - | - | - | - | 38738 | 122885 | - | 131623 |
| 10. Neendakara | 51100 | 676425 | 3818195 | - | 1327342 | 162962 | - | 6036024 |
| 11. Valiyathura/ Trivandrum | - | - | - | - | 57917 | - | - | 57917 |
| 12. Vizhinjam | 8447 | 18150 | - | - | 37131 | - | - | 63728 |
| 13. Caps. DM | - | - | - | - | - | - | - | - |
| 14. D.S. MKA | - | - | - | - | - | - | - | - |
| 15. Directorate/ Trivandrum | - | - | - | - | 211692 | - | - | 211692 |
| Total | 98103 | 1062855 | 3995172 | 11504 | 3191000 | 388429 | - | 8747063 |

Source ; - Directorate of Ports

Appendix - 7.19

No. of Passports issued from Passport Offices in Kerala
from 1985-86 to 1995-96

| Year | No. of Applications Received | | No. of Passports Issued | | | Total | Total | |
|---------|------------------------------|--------|-------------------------|--------------------|--------|--------|--------|-----------|
| | Thiruvananthapuram | Kochi | Kozhikode | Thiruvananthapuram | Kochi | | | Kozhikode |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1985-86 | .. | 88362 | 65246 | 153608 | .. | 97863 | 67376 | 165239 |
| 1986-87 | .. | 70672 | 59038 | 129710 | .. | 68332 | 81307 | 129639 |
| 1987-88 | .. | 91548 | 79247 | 170795 | .. | 81149 | 67929 | 149078 |
| 1988-89 | .. | 145361 | 115062 | 260423 | .. | 122943 | 84738 | 207681 |
| 1989-90 | .. | 153387 | 132818 | 286205 | .. | 162949 | 15449 | 317398 |
| 1990-91 | .. | 125264 | 100249 | 225513 | .. | 128834 | 110028 | 238862 |
| 1991-92 | 34319 | 304523 | 228965 | 567807 | 3200 | 153134 | 119427 | 275761 |
| 1992-93 | 156653 | NA | 206917 | .. | 116737 | NA | 341000 | .. |
| 1993-94 | 117630 | 122473 | 201146 | 441249 | 174493 | 136832 | 286744 | 598069 |
| 1994-95 | 92014 | 90341 | NA | .. | 89319 | 93296 | NA | .. |
| 1995-96 | 85854 | 78416 | 134943 | 299213 | 81158 | 77088 | 130976 | 289222 |

Note:- Thiruvananthapuram Passport Office was upgraded as a full fledged office on 10-1-1992
Source :- Passport Offices at Thiruvananthapuram, Kochi and Kozhikode.

Appendix -7.20
Air Traffic (Indian Air Lines) from Thiruvananthapuram, Kochi and Kozhikode (1984-85 to 1995-96)

| Year | Passengers No. | | | | | | | | | | | | | | | | | Freight(Tonnes) | | | | | | | | | | | | | | | | |
|---------|--------------------|-------------|--------|-------------|-------------|-------|-------------|-------------|--------|-------------|-------------|---------|--------------------|-------------|--------|-------------|-------------|-----------------|-------------|-------------|-------|-------------|-------------|-------|--|--|--|--|--|--|--|--|--|--|
| | Thiruvananthapuram | | | Kochi | | | Kozhikode | | | Total | | | Thiruvananthapuram | | | Kochi | | | Kozhikode | | | Total | | | | | | | | | | | | |
| | Originating | Terminating | Total | Originating | Terminating | Total | Originating | Terminating | Total | Originating | Terminating | Total | Originating | Terminating | Total | Originating | Terminating | Total | Originating | Terminating | Total | Originating | Terminating | Total | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | | | | | | | | | | | | | | | | | | |
| 1985-86 | 129776 | 146998 | 194477 | 208900 | .. | .. | .. | 324255 | 355886 | 1132.20 | 22175.50 | 1062.40 | 1274.00 | .. | .. | .. | 2194.80 | 3449.50 | | | | | | | | | | | | | | | | |
| 1986-87 | 133572 | 153627 | 196285 | 209430 | .. | .. | .. | 329857 | 363057 | 882.10 | 1977.85 | 1029.47 | 1466.13 | .. | .. | .. | 1818.57 | 3443.86 | | | | | | | | | | | | | | | | |
| 1987-88 | 134858 | 147071 | 194186 | 207110 | .. | .. | .. | 329024 | 354181 | 908.21 | 1908.2 | 925.09 | 1260.39 | .. | .. | .. | 1833.30 | 3168.68 | | | | | | | | | | | | | | | | |
| 1988-89 | 148652 | 157699 | 179900 | 186650 | 22182 | 23241 | .. | 350734 | 370580 | 1138.81 | 1889.85 | 931.71 | 1227.18 | 8.21 | 43.23 | .. | 2078.83 | 3170.27 | | | | | | | | | | | | | | | | |
| 1989-90 | 142809 | 155082 | 163985 | 171610 | 34644 | 39454 | .. | 341418 | 368156 | 1355.16 | 1791.21 | 1079.92 | 1127.64 | 85.52 | 40.64 | .. | 2517.80 | 2869.49 | | | | | | | | | | | | | | | | |
| 1990-91 | 112716 | 128377 | 134035 | 148850 | 32146 | 46671 | .. | 278900 | 315898 | 1439.25 | 1622.17 | 746.72 | 870.02 | 69.29 | 44.87 | .. | 2255.26 | 2337.08 | | | | | | | | | | | | | | | | |
| 1991-92 | 119703 | 129841 | 136441 | 139553 | 49771 | 57048 | .. | 307815 | 326842 | 1735.27 | 1251.29 | 809.65 | 669.43 | 45.03 | 64.84 | .. | 2380.86 | 2005.68 | | | | | | | | | | | | | | | | |
| 1992-93 | 120079 | 105582 | 104003 | 101797 | 78198 | 70587 | .. | 302280 | 277966 | 994.00 | 1433.57 | 887.89 | 682.11 | 110.61 | 178.40 | .. | 1793.50 | 2304.08 | | | | | | | | | | | | | | | | |
| 1993-94 | 143000 | 159000 | 97000 | 110000 | 78000 | 84000 | .. | 318000 | 353000 | 1858.00 | 1059.00 | 506.00 | 1013.00 | 558.00 | 130.00 | .. | 2620.00 | 2201.00 | | | | | | | | | | | | | | | | |
| 1994-95 | 144309 | 158952 | 86064 | 121758 | 78334 | 87523 | .. | 309727 | 368233 | 2284.00 | 1223.00 | 646.00 | 1231.00 | 617.00 | 131.00 | .. | 3547.00 | 2585.00 | | | | | | | | | | | | | | | | |
| 1995-96 | 151831 | 151409 | 93212 | 83180 | 89913 | 95441 | .. | 334958 | 340030 | 2432.00 | 1302.00 | 778.00 | 916.00 | 754.00 | 818.00 | .. | 3864.00 | 3039.00 | | | | | | | | | | | | | | | | |

Source : G.M.Southern Region, Indian Airlines Ltd

Appendix -7.21

Growth of Postal Offices in Kerala during the last ten years

| Category | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Postal Services | | | | | | | | | | |
| 1. Head Post Office | 50 | 50 | 50 | 50 | 50 | 51 | 51 | 51 | 51 | 51 |
| 2. Sub Offices (Departmental & Extra Departmental) | 1959 | 1959 | 1959 | 1959 | 1959 | 1956 | 1956 | 1958 | 1957 | 1968 |
| 3. Branch Offices | 2725 | 2759 | 2759 | 2838 | 2881 | 2957 | 2988 | 3017 | 3018 | 3008 |
| Total | 4734 | 4768 | 4768 | 4847 | 4890 | 4964 | 4995 | 5026 | 5026 | 5027 |

Source : CPMG Kerala Circle, Thiruvananthapuram

Appendix - 7.22

Category-wise Offices in Postal and other Postal Services in Kerala

| Category of Office | As on 1st April | |
|-----------------------------------------------------------|-----------------|-------------|
| | 1995 | 1996 |
| a) Postal Services | | |
| 1. Head Post offices | 51 | 51 |
| 2. Sub Post Offices Departmental Extra Departmental | 1421 | 1439 |
| 3. Branch Offices | 3018 | 3008 |
| Total (a) | 5026 | 5027 |
| b) Speed Post Centres | 6 | 7 |
| c) Other Postal Services | | |
| i. Railway Mail Service Offices | | |
| i. Head Record Office | 3 | 3 |
| ii. Sorting Mail Office | 28 | 28 |
| iii. Sub Record Office | 23 | 23 |
| iv. Transit Mail Office | 9 | 9 |
| v. R.M.S. Sections | 18 | 18 |
| vi. Press Sorting Office | 2 | 2 |
| vii. Parcel sorting Office | 3 | 3 |
| Total (1) | 86 | 86 |
| 2. Mail Motor Service Division | 1 | 1 |
| MailMotor Service Unit | 4 | 4 |
| 3. Central Stamp Depot | 1 | 1 |
| Total (c) | 92 | 92 |

Source :- CPMG Kerala Circle, Thiruvananthapuram

Appendix - 7.23
Division-wise and Category-wise Post Office in Kerala
as on 1-4-1996

| Sl.No. | Name of Division | Sub Offices | | | | | Total |
|--------|------------------|--------------|--------------|------------------|----------------|--------------------|-------|
| | | Head Offices | Departmental | Extra Department | Branch Offices | Mobile Post Office | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Trivandrum (s) | 2 | 67 | 15 | 135 | .. | 219 |
| 2. | Trivandrum(N) | 2 | 77 | 8 | 111 | .. | 198 |
| 3. | Quilon | 3 | 86 | 31 | 121 | .. | 241 |
| 4. | Pathanamthitta | 3 | 77 | 49 | 177 | .. | 308 |
| 5. | Tiruvalla | 2 | 63 | 30 | 61 | .. | 156 |
| 6. | Mavelikara | 2 | 51 | 23 | 47 | .. | 123 |
| 7. | Alleppey | 2 | 47 | 30 | 45 | .. | 124 |
| 8. | Kottayam | 3 | 79 | 44 | 130 | .. | 256 |
| 9. | Changanacherry | 2 | 48 | 12 | 104 | .. | 168 |
| 10. | Idukki | 2 | 52 | 13 | 230 | .. | 297 |
| 11. | Emekulam | 2 | 72 | 5 | 58 | .. | 137 |
| 12. | Alwaye | 3 | 68 | 33 | 140 | .. | 244 |
| 13. | Iringalakude | 2 | 61 | 22 | 107 | .. | 192 |
| 14. | Trichur | 3 | 106 | 32 | 155 | .. | 296 |
| 15. | Ottapalam | 1 | 53 | 22 | 142 | .. | 218 |
| 16. | Palaghat | 3 | 86 | 20 | 123 | .. | 232 |
| 17. | Tirur | 2 | 53 | 21 | 96 | .. | 172 |
| 18. | Majeri | 2 | 45 | 21 | 191 | .. | 259 |
| 19. | Calicut | 3 | 74 | 14 | 215 | .. | 306 |
| 20. | Badagara | 2 | 40 | 35 | 144 | .. | 221 |
| 21. | Tellicherry | 1 | 43 | 8 | 156 | .. | 208 |
| 22. | Cannanore | 2 | 61 | 25 | 139 | .. | 227 |
| 23. | Kasergode | 2 | 30 | 16 | 181 | .. | 229 |
| Total | | 51 | 1439 | 529 | 3008 | .. | 5027 |

Source :- CPMG Kerala Circle, Thiruvananthapuram

Appendix - 7.24

District-wise Details of Area and Population Served by
One Post Office During 1995-96

| Sl.NO. | Name of District | Post Office (Nos) | Area (Sq.Kms) | Area Served by one Post Office (Sq.Kms) | Population* | Population served by one post Office |
|--------|--------------------|-------------------|---------------|-----------------------------------------|-------------|--------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Thiruvananthapuram | 417 | 2192 | 5.26 | 3150992 | 7556 |
| 2. | Kollam | 359 | 2491 | 6.93 | 2538905 | 7072 |
| 3. | Pathanamthitta | 311 | 2642 | 8.50 | 1221980 | 3929 |
| 4. | Alappuzha | 290 | 1414 | 4.87 | 2075130 | 7156 |
| 5. | Kottayam | 409 | 2203 | 5.39 | 1899847 | 4645 |
| 6. | Idukki | 300 | 5019 | 16.73 | 1139919 | 3800 |
| 7. | Emakulam | 381 | 2407 | 6.31 | 2977397 | 7815 |
| 8. | Thrissur | 488 | 3032 | 6.21 | 2908411 | 5960 |
| 9. | Palakkad | 450 | 4480 | 9.95 | 2585618 | 5746 |
| 10. | Malappuram | 431 | 3550 | 8.24 | 3589849 | 8283 |
| 11. | Kozhikode | 418 | 2344 | 5.60 | 2845997 | 6808 |
| 12. | Wayanadu | 161 | 2131 | 13.23 | 746897 | 4639 |
| 13. | Kannur | 378 | 2968 | 7.84 | 2445290 | 6469 |
| 14. | Kasaragod | 234 | 1992 | 8.51 | 1199241 | 5125 |
| Total | | 5027 | 38863 | 7.73 | 31305473 | 6227 |

Source:- CPMG, Kerala Circle, Thiruvananthapuram

* Projected population as on 1-3-1996.

Appendix - 7.25
REVENUE DISTRICT - WISE SUMMARY OF EXCHANGES AS ON 31-3-1996

| Sl.No. | Name of District | No.of Exges | Equipped Capacity | Working Conns. | Waiting List | | Area (Sq.Kms) | No. of Tel. PER sq. Kms | Popln (in lakhs) | No. of Tel PER 1000 POPLN | |
|--------|--------------------|-------------|-------------------|----------------|--------------|--------|------------------|----------------------------|---------------------|------------------------------|-------|
| | | | | | OYT | N-OYT | | | | | TOTAL |
| 1. | Alleppey | 38 | 46336 | 36455 | 1544 | 22589 | 24113 | 1414 | 26 | 19.9 | 18 |
| 2. | Calicut | 56 | 72564 | 57208 | 3040 | 36807 | 39847 | 2344 | 24 | 28.1 | 22 |
| 3. | Cannanore | 67 | 64408 | 45551 | 2889 | 31875 | 34764 | 2986 | 15 | 22.4 | 20 |
| 4. | Ernakulam | 85 | 145284 | 128502 | 1319 | 42032 | 43351 | 2407 | 53 | 28.0 | 46 |
| 5. | Idukki | 64 | 20380 | 17939 | 233 | 13287 | 13520 | 5019 | 4 | 10.8 | 17 |
| 8. | Kasaragod | 41 | 28800 | 21638 | 1675 | 17696 | 19371 | 1992 | 11 | 10.7 | 20 |
| 7. | Kottayam | 61 | 68678 | 61574 | 2145 | 31985 | 34130 | 2203 | 28 | 18.2 | 34 |
| 8. | Lakshadweep | 10 | 3984 | 3743 | 0 | 186 | 186 | 32 | 117 | 0.5 | 72 |
| 9. | Malappuram | 48 | 35718 | 30993 | 5174 | 34861 | 40035 | 3550 | 9 | 31.0 | 10 |
| 10. | Palakkad | 71 | 45802 | 37052 | 542 | 19745 | 20287 | 4480 | 8 | 23.8 | 18 |
| 11. | Pathanamthitta | 40 | 35222 | 29172 | 1687 | 25401 | 27088 | 2642 | 11 | 12.0 | 25 |
| 12. | Pondicherry (Mahe) | 1 | 2000 | 1911 | 108 | 1592 | 1700 | 10 | 191 | 0.3 | 57 |
| 13. | Quilon | 58 | 58847 | 50657 | 801 | 27570 | 28341 | 2491 | 20 | 24.0 | 21 |
| 14. | Trichur | 55 | 79932 | 69478 | 2267 | 37948 | 40215 | 3032 | 23 | 27.3 | 25 |
| 15. | Trivandrum | 50 | 100600 | 81194 | 1746 | 40824 | 42570 | 2192 | 37 | 29.4 | 28 |
| 18. | Wynad | 20 | 8816 | 8137 | 64 | 5709 | 5773 | 2131 | 4 | 6.7 | 12 |
| | Total | 765 | 812371 | 681234 | 25260 | 390368 | 415321 | 38905 | 18 | 291 | 23 |

Source : Directory of Telecom Sarvices 1996

Appendix - 7.26
KERALA TOURISM DEVELOPMENT CORPORATION LTD - PERFORMANCE FOR 1995-96

| Name of Units | Bed Available | Domestic Tourist | Foreign Tourist | Bed Occupancy % | Total Income Rs. | Operating Expenditure Rs. | Administrative Expenditure Rs. | Total Expenditure Rs. |
|------------------------------------------|---------------|------------------|-----------------|-----------------|------------------|---------------------------|--------------------------------|-----------------------|
| | | | | | | | | |
| Mascot Hotel, Trivandrum | 25560 | 4743 | 2173 | 38.13 | 229.03 | 157.59 | 39.40 | 196.98 |
| HotelChaithram and Thattukada | 63560 | 20310 | 2400 | 58.12 | 224.66 | 190.61 | 47.65 | 238.27 |
| Hotel Smudra, Kovalam | 18282 | 1289 | 1406 | 50.34 | 128.50 | 768.42 | 19.11 | 95.53 |
| Aranya Nivas and Lake Place Thekkady | 26352 | 7034 | 5484 | 42.28 | 187.46 | 95.27 | 23.82 | 119.09 |
| Periyar House, Thekkady | 24447 | 13937 | 1082 | 64.68 | 52.94 | 35.01 | 8.75 | 43.76 |
| Bolgatty Palace | 7808 | 1051 | 1503 | 62.06 | 60.47 | 45.24 | 11.31 | 56.55 |
| Garden House, Malampuzha | 11712 | 7262 | 98 | 67.68 | 61.73 | 36.16 | 9.04 | 45.20 |
| Nandanam, Guruvayoor | 32940 | 19755 | 41 | 60.06 | 34.34 | 24.38 | 6.09 | 30.47 |
| Mangalya, Guruvayoor | 13908 | 7937 | Nil | 55.11 | 59.71 | 46.49 | 11.62 | 58.11 |
| Hotel Aiswrya, Kottayam | 22784 | 9545 | 871 | 54.38 | 49.79 | 43.31 | 10.83 | 54.14 |
| Malabar Manzion, Calicut | 19216 | 3809 | 143 | 51.44 | 76.21 | 60.00 | 15.00 | 75.00 |
| Yatri Nivas Kannoor | 22328 | 8953 | 30 | 40.20 | 58.83 | 44.71 | 11.18 | 55.89 |
| Yatri Nivas Trichur | 19795 | 6289 | 71 | 39.58 | 63.27 | 45.64 | 11.41 | 57.05 |
| Yatri Nivas Kollam | 10980 | 4061 | 2238 | 57.30 | 39.22 | 31.28 | 7.82 | 39.11 |
| Motel Araam Kannur | 1464 | 834 | Nil | 56.83 | 54.86 | 37.27 | 9.32 | 46.59 |
| Motel Araam Plakkad | 1464 | 1030 | Nil | 70.46 | 27.23 | 18.84 | 4.71 | 23.55 |
| Motel Araam Sulthanbathery | 1464 | 224 | 4 | 15.58 | 20.65 | 15.18 | 3.80 | 18.98 |
| Motel Araam Alappuzha | 1464 | 1000 | 88 | 33.20 | 33.57 | 26.07 | 6.02 | 30.09 |
| Motel Araam Kayamkulam | 1464 | 225 | 11 | 16.14 | 46.66 | 32.42 | 8.11 | 40.53 |
| Motel Araam Kottarakara | 1464 | 668 | Nil | 45.62 | 30.06 | 21.76 | 5.44 | 27.20 |
| Motel Araam Thalappady | 1464 | 374 | 2 | 32.49 | 13.75 | 11.84 | 2.97 | 14.83 |
| Augastya House, Neyyar Dam | 1880 | 1379 | 47 | 31.58 | 15.85 | 12.14 | 3.04 | 15.18 |
| Motel Pathirappally | 3660 | 907 | 23 | 25.30 | 22.43 | 16.96 | 4.24 | 21.21 |
| Beer Parlour, Restaurant, Tour Operation | .. | .. | .. | .. | 1260.90 | 1009.05 | 252.26 | 1261.31 |
| Total | .. | 122816 | 17715 | .. | 2852.07 | 2131.68 | 532.92 | 2664.60 |

Appendix - 9.1
District-wise Population Profile, 1991

| Sl. No. | District | Area K.M ² | Population | Sex ratio | Growth rate 1981-91 | Density per K.M ² | Effective Literacy rate | | |
|---------|--------------------|-----------------------|------------|-----------|---------------------|------------------------------|-------------------------|-------|--------|
| | | | | | | | Total | Male | Female |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| | Kerala | | | | | | | | |
| 1. | Kasaragode | 38863 | 29098518 | 1036 | 14.32 | 749 | 89.81 | 93.62 | 86.17 |
| 2. | Kannur | 1992 | 1071508 | 1026 | 22.78 | 538 | 82.51 | 88.97 | 76.29 |
| 3. | Wayanad | 2966 | 2251727 | 1049 | 16.63 | 759 | 91.48 | 95.54 | 87.65 |
| 4. | Kozhikoda | 2131 | 672128 | 966 | 21.32 | 315 | 82.73 | 87.59 | 77.69 |
| 5. | Malappuram | 2344 | 2619941 | 1027 | 16.69 | 1118 | 91.10 | 95.58 | 86.79 |
| 6. | Palakkad | 3550 | 3096330 | 1053 | 28.87 | 872 | 87.94 | 92.08 | 84.09 |
| 7. | Thrissur | 4480 | 2382235 | 1061 | 16.52 | 532 | 81.27 | 87.24 | 75.72 |
| 8. | Ernakulam | 3032 | 2737311 | 1085 | 12.20 | 903 | 90.13 | 93.77 | 86.94 |
| 9. | Idukki | 2407 | 2817236 | 1000 | 11.12 | 1170 | 92.35 | 95.46 | 89.27 |
| 10. | Kottayam | 5019 | 1078066 | 975 | 11.22 | 215 | 86.94 | 90.82 | 82.96 |
| 11. | Alappuzha | 2203 | 1828271 | 1003 | 7.71 | 830 | 95.72 | 97.46 | 94.00 |
| 12. | Pathanamthitta | 1414 | 2001217 | 1051 | 7.28 | 1415 | 93.87 | 96.79 | 91.12 |
| 13. | Kollam | 2642 | 1188332 | 1062 | 5.60 | 450 | 94.86 | 96.55 | 93.29 |
| 14. | Thiruvananthapuram | 2491 | 2407566 | 1035 | 10.68 | 967 | 90.47 | 94.09 | 87.00 |
| | | 2192 | 2946650 | 1036 | 13.50 | 1344 | 89.22 | 92.84 | 85.78 |

Source : Census of India 1991 - Kerala - Final Population Totals.

Appendix - 9.2
Number of Schools in Kerala - Government Schools

| Year | L.P. Sector | | U.P. Sector | | High Schools | |
|---------|---------------------|-----------------------------------------|-----------------------------------------|---------------------|-----------------------------------------|---------------------|
| | L.P. Schools (2) | L.P. Sections in U.P. Schools (3) | L.P. Sections in High Schools (4) | U.P. Schools (5) | U.P. Sections in High Schools (6) | High Schools (7) |
| 1991-92 | 2565 | 898 | 425 | 960 | 826 | 963 |
| 1992-93 | 2565 | 898 | 425 | 960 | 826 | 963 |
| 1993-94 | 2520 | 898 | 424 | 959 | 828 | 967 |
| 1994-95 | 2520 | 901 | 386 | 958 | 837 | 975 |
| 1995-96 | 2521 | 902 | 406 | 960 | 836 | 978 |

Note : Besides there are seven schools for the Handicapped and 38 T.T.I's in the State in 1996.

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.3
Number of Schools in Kerala - Private Aided Schools

| Year | L.P. Sector | | | U.P. Sector | | |
|---------|--------------------|-----------------------------------------|-----------------------------------------|---------------------|-----------------------------------------|---------------------|
| | L.P. School (2) | L.P. Sections in U.P. Schools (3) | L.P. Sections in High Schools (4) | U.P. Schools (5) | U.P. Sections in High Schools (6) | High Schools (7) |
| 1991-92 | 4067 | 1293 | 173 | 1883 | 1034 | 1380 |
| 1992-93 | 4067 | 1293 | 173 | 1883 | 1034 | 1380 |
| 1993-94 | 4045 | 1293 | 169 | 1880 | 1032 | 1379 |
| 1994-95 | 4041 | 1288 | 168 | 1876 | 1034 | 1380 |
| 1995-96 | 4040 | 1287 | 170 | 1875 | 1038 | 1394 |

Note : Besides there are 5 Anglo-Indian H.S., 23 Schools for the Handicapped, 63 T.T.I's and One Anglo-Indian T.T.I in the State (1995-96).

Source : Directorate of Public Instructions, Thiruvananthapuram.

Appendix - 9.4
Number of Schools in Kerala - Unaided Schools

| Year | L.P. Sector | | U.P. Sector | | High Schools | |
|---------|--------------|-------------------------------|-------------------------------|-------------------------------|--------------|-----|
| | L.P. Schools | L.P. Sections in U.P. Schools | L.P. Sections in High Schools | U.P. Sections in High Schools | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1991-92 | 151 | 46 | 63 | 92 | 109 | 129 |
| 1992-93 | 147 | 45 | 63 | 88 | 109 | 129 |
| 1993-94 | 137 | 44 | 63 | 80 | 111 | 129 |
| 1994-95 | 133 | 45 | 59 | 78 | 110 | 131 |
| 1995-96 | 167 | 43 | 85 | 129 | 68 | 203 |

Note : Besides there are 3 Anglo-Indian H.S. and 3 schools for the handicapped in the State (1995-96).

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.5

Progress of Educational Institutions from 1961-1962 to 1995-96

| Year | High School | U.P.School | L.P.School | Total |
|---------|-------------|------------|------------|-------|
| 1 | 2 | 3 | 4 | 5 |
| 1961-62 | 629 | 1985 | 6745 | 9359 |
| 1962-63 | 1015 | 2285 | 6904 | 10204 |
| 1963-64 | 1020 | 2285 | 6914 | 10219 |
| 1964-65 | 1146 | 2428 | 6930 | 10504 |
| 1965-66 | 1151 | 2447 | 6954 | 10552 |
| 1966-67 | 1278 | 2475 | 6933 | 10684 |
| 1967-68 | 1292 | 2479 | 6940 | 10711 |
| 1968-69 | 1381 | 2535 | 6917 | 10833 |
| 1969-70 | 1382 | 2532 | 6928 | 10842 |
| 1970-71 | 1384 | 2543 | 6895 | 10822 |
| 1971-72 | 1393 | 2551 | 6895 | 10839 |
| 1972-73 | 1399 | 2550 | 6887 | 10786 |
| 1973-74 | 1404 | 2548 | 6904 | 10856 |
| 1974-75 | 1488 | 2588 | 6975 | 11051 |
| 1975-76 | 1521 | 2606 | 6975 | 11102 |
| 1976-77 | 1666 | 2718 | 6995 | 11379 |
| 1977-78 | 1675 | 2718 | 6969 | 11362 |
| 1978-79 | 1680 | 2739 | 6970 | 11389 |
| 1979-80 | 1680 | 2739 | 6970 | 11389 |
| 1980-81 | 1976 | 2753 | 6861 | 11590 |
| 1981-82 | 2075 | 2779 | 6811 | 11665 |
| 1982-83 | 2154 | 2763 | 6817 | 11734 |
| 1983-84 | .. | .. | 6819 | .. |
| 1984-85 | 2397 | 2856 | 6848 | 12101 |
| 1985-86 | 2122 | 2852 | 6696 | 11670 |
| 1986-87 | 2340 | 2884 | 6828 | 12142 |
| 1987-88 | 2431 | 2885 | 6819 | 12135 |
| 1988-89 | .. | .. | 6819 | .. |
| 1989-90 | 2340 | 2892 | 6813 | 12135 |
| 1990-91 | 2452 | 2915 | 6767 | 12134 |
| 1991-92 | 2472 | 2935 | 6783 | 12190 |
| 1992-93 | 2472 | 2931 | 8779 | 12182 |
| 1993-94 | 2475 | 2920 | 6702 | 12097 |
| 1994-95 | 2486 | 2912 | 6694 | 12092 |
| 1995-96 | 2573 | 2964 | 6728 | 12285 |

Source : Directorate of Public Instruction, Thiruvananthapuram

Appendix - 9.6

District-wise / Management-wise Number of Schools in Kerala - 1996

| Sl. No. | Districts | Government | | | Private Aided | | | Private Unaided | | | Total | | |
|---------|--------------------|-------------|------------|------------|---------------|-------------|-------------|-----------------|-------------|------------|------------|------------|------------|
| | | L.P. | U.P. | H.S. | Total | L.P. | U.P. | H.S. | Total | L.P. | | U.P. | H.S. |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| 1. | Thiruvananthapuram | 303 | 99 | 119 | 521 | 181 | 103 | 94 | 378 | 16 | 15 | 21 | 52 |
| 2. | Kollam | 275 | 82 | 76 | 413 | 190 | 142 | 125 | 457 | 17 | 7 | 10 | 34 |
| 3. | Pathanamthitta | 165 | 43 | 47 | 255 | 243 | 83 | 113 | 439 | 13 | 15 | 7 | 35 |
| 4. | Alapuzha | 194 | 67 | 58 | 319 | 198 | 78 | 125 | 401 | 13 | 3 | 7 | 23 |
| 5. | Kottayam | 169 | 68 | 59 | 296 | 276 | 128 | 166 | 570 | 24 | 8 | 16 | 48 |
| 8. | Idukki | 72 | 46 | 55 | 173 | 141 | 63 | 70 | 274 | 6 | 4 | 9 | 19 |
| 7. | Ernakulam | 186 | 88 | 87 | 361 | 276 | 100 | 172 | 548 | 21 | 20 | 33 | 74 |
| 8. | Thrissur | 121 | 54 | 78 | 253 | 390 | 165 | 148 | 703 | 10 | 7 | 17 | 34 |
| 9. | Palakkad | 187 | 83 | 58 | 308 | 350 | 159 | 78 | 587 | 9 | 13 | 15 | 37 |
| 10. | Malappuram | 347 | 110 | 82 | 539 | 480 | 225 | 75 | 780 | 6 | 12 | 29 | 47 |
| 11. | Kozhikode | 185 | 76 | 87 | 328 | 533 | 241 | 96 | 870 | 6 | 9 | 17 | 32 |
| 12. | Wayanad | 69 | 35 | 35 | 139 | 52 | 39 | 22 | 113 | 6 | 3 | 4 | 13 |
| 13. | Kannur | 114 | 77 | 81 | 272 | 615 | 277 | 77 | 969 | 10 | 12 | 10 | 32 |
| 14. | Kasaragode | 134 | 72 | 74 | 280 | 115 | 72 | 33 | 220 | 10 | 1 | 8 | 19 |
| | Total | 2521 | 960 | 978 | 4457 | 4040 | 1875 | 1394 | 7309 | 167 | 129 | 203 | 499 |

Note : Besides there are (A) 8 Anglo-Indian High Schools, 33 Schools for the Handicapped and (B) 38 Government T.T.I.'s and 64 Private Aided T.T.I.'s (including Anglo-Indian T.T.I.).

Source : Directorate of Public Instruction.

Appendix - 9.7
Enrolment of Students in Schools - District-wise and Stage-wise 1995-96

| Districts | L.P.S. | | | U.P.S. | | | High School | | | Total | | |
|--------------------|----------------|----------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|----------------|----------------|
| | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total |
| | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
| Thiruvananthapuram | 103070 | 100249 | 203319 | 82522 | 79118 | 161640 | 72992 | 75697 | 148689 | 258584 | 255064 | 513648 |
| Kollam | 78942 | 76788 | 155730 | 70498 | 66738 | 137236 | 67185 | 67229 | 134414 | 216625 | 210755 | 427380 |
| Pathanamthitta | 37029 | 36178 | 73207 | 31966 | 29829 | 61795 | 32141 | 31372 | 63513 | 101136 | 97379 | 198515 |
| Alappuzha | 59844 | 57928 | 117770 | 54531 | 51118 | 105649 | 53556 | 52933 | 106489 | 167931 | 161977 | 329908 |
| Kottayam | 60206 | 57319 | 117525 | 49871 | 47014 | 96885 | 46259 | 48080 | 94339 | 156336 | 152413 | 308749 |
| Idukki | 34834 | 32492 | 67326 | 30745 | 27426 | 58171 | 24441 | 25327 | 49768 | 90020 | 85245 | 175265 |
| Ernakulam | 85717 | 82671 | 168388 | 76337 | 72097 | 148434 | 70528 | 73081 | 143609 | 232582 | 227849 | 480431 |
| Thrissur | 104757 | 99594 | 204351 | 84990 | 80289 | 185279 | 69862 | 73207 | 143069 | 259609 | 253090 | 512699 |
| Palakkad | 105164 | 101305 | 206469 | 83578 | 80195 | 163773 | 63608 | 66949 | 130557 | 252350 | 248449 | 500799 |
| Malappuram | 174713 | 165242 | 339955 | 135766 | 127469 | 263235 | 100341 | 105223 | 205564 | 410820 | 397934 | 808754 |
| Kozhikode | 106497 | 100041 | 206538 | 92385 | 85356 | 177741 | 78393 | 81788 | 160181 | 277275 | 267185 | 544460 |
| Wayanad | 29777 | 28285 | 58062 | 23302 | 22124 | 45428 | 17867 | 19191 | 37058 | 70946 | 69800 | 140546 |
| Kannur | 92605 | 87700 | 180305 | 78970 | 73118 | 152088 | 68808 | 69584 | 138392 | 240383 | 230402 | 470785 |
| Kasaragode | 51182 | 47957 | 99139 | 39363 | 36060 | 75423 | 31439 | 29813 | 61252 | 121984 | 113830 | 235814 |
| Total | 1124337 | 1073747 | 2198084 | 934824 | 877951 | 1812775 | 797420 | 819474 | 1616894 | 2856581 | 2771172 | 5827753 |

Source: Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.8
Enrolment of SC/ST Students at School Level 1995-96

| Section (1) | General (2) | Scheduled Castes (3) | Percentage to total (4) | Scheduled Tribes (5) | Percentage to total (6) |
|----------------|----------------|-------------------------|----------------------------|-------------------------|----------------------------|
| Lower Primary | 2198084 | 240938 | 10.96 | 29462 | 1.34 |
| Upper Primary | 1812775 | 205774 | 11.35 | 19534 | 1.08 |
| Secondary | 1616894 | 172895 | 10.69 | 13435 | 0.83 |
| Total | 5627753 | 619607 | 11.01 | 62431 | 1.11 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.9

Standard-wise Strength of SC / ST Students - 1996

| Standard | Government Schools | | | Private Aided Schools | | | Private Unaided Schools | | |
|----------|--------------------|----------|-------|-----------------------|----------|-------|-------------------------|----------|------|
| | Total | of which | | Total | of which | | Total | of which | |
| | | SC | ST | | SC | ST | | SC | ST |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| I | 195579 | 25758 | 4210 | 299153 | 29915 | 3696 | 24316 | 707 | 53 |
| II | 210624 | 27541 | 3988 | 316278 | 31586 | 3385 | 24155 | 740 | 54 |
| III | 214658 | 28272 | 3684 | 316893 | 31292 | 3082 | 22971 | 743 | 52 |
| IV | 225254 | 30254 | 3976 | 326388 | 33487 | 3252 | 21815 | 643 | 30 |
| V | 203728 | 26124 | 3558 | 369445 | 39485 | 3251 | 19849 | 517 | 58 |
| VI | 206195 | 26365 | 3491 | 375531 | 41312 | 3019 | 18764 | 486 | 62 |
| VII | 209774 | 26982 | 3129 | 392063 | 44062 | 2919 | 17426 | 441 | 47 |
| VIII | 237579 | 29055 | 3182 | 349019 | 38408 | 2431 | 15867 | 424 | 63 |
| IX | 222783 | 26130 | 2607 | 330417 | 34446 | 1939 | 14763 | 393 | 49 |
| X | 175908 | 19251 | 1802 | 258274 | 24471 | 1328 | 12284 | 317 | 34 |
| Total | 2102082 | 265732 | 33627 | 3333461 | 348464 | 28302 | 192210 | 5411 | 502 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.10
Enrolment of Students in Schools in Kerala - Stage-wise

| Year | L.P.S. | | | U.P.S | | | H.S. | | | Total | | | |
|------|--------|---------|---------|---------|--------|---------|-------|---------|---------|--------|-------|---------|---------|
| | Govt. | Aided | Unaided | Govt. | Aided | Unaided | Govt. | Aided | Unaided | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| 1994 | 916480 | 1322880 | 85692 | 2325052 | 651773 | 1164926 | 50138 | 1866837 | 643749 | 933364 | 39103 | 1616216 | 5808105 |
| 1995 | 879101 | 1285774 | 87107 | 2251982 | 636086 | 1150609 | 52490 | 1839185 | 644388 | 941130 | 40660 | 1626178 | 5717345 |
| 1996 | 846115 | 1258712 | 93257 | 2198084 | 619697 | 1137039 | 56039 | 1812775 | 636270 | 937710 | 42914 | 1616894 | 5627753 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.11
Enrolment of Students in Government Schools - Kerala 1996

| Students | S T A N D A R D S | | | | | | | | | | | | |
|--------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | I | II | III | IV | Total | V | VI | VII | Total | VIII | IX | X | Total |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| Boys | 99306 | 106927 | 110899 | 115910 | 435042 | 105452 | 106666 | 108485 | 320603 | 121719 | 110130 | 82392 | 314241 |
| Girls | 96273 | 101697 | 103759 | 109344 | 411073 | 98276 | 99529 | 101289 | 299094 | 115860 | 112653 | 93516 | 322029 |
| Total | 195579 | 210624 | 214658 | 225254 | 846115 | 203728 | 206195 | 209774 | 619697 | 237579 | 222783 | 175908 | 636270 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.12
Enrolment of Students in Private Aided Schools in Kerala - 1996

| Students | S T A N D A R D S | | | | | | | | | | | | |
|--------------|-------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|
| | I | II | III | IV | Total | V | VI | VII | Total | VIII | IX | X | Total |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| Boys | 151797 | 161331 | 161886 | 166875 | 641689 | 189705 | 192452 | 201879 | 584036 | 177417 | 163050 | 120348 | 460815 |
| Girls | 147356 | 154947 | 155207 | 159513 | 817023 | 179740 | 183079 | 190184 | 553003 | 171602 | 167387 | 137926 | 476895 |
| Total | 299153 | 316278 | 318893 | 328388 | 1258712 | 369445 | 375531 | 392063 | 1137039 | 349019 | 330417 | 258274 | 937710 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.13

Enrolment of Students in Private Unaided Schools in Kerala - 1996

| Students | S T A N D A R D S | | | | | | | | | | Total | | |
|----------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | I | II | III | IV | Total | V | VI | VII | Total | VIII | | IX | X |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| Boys | 12347 | 12353 | 11783 | 11123 | 47606 | 10759 | 9987 | 9439 | 30185 | 8549 | 7697 | 6118 | 22364 |
| Girls | 11969 | 11802 | 11188 | 10692 | 45651 | 9090 | 8777 | 7987 | 25854 | 7318 | 7066 | 6166 | 20550 |
| Total | 24316 | 24155 | 22971 | 21815 | 93257 | 19849 | 18764 | 17426 | 56039 | 15867 | 14763 | 12284 | 42914 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.14
Enrolment of Students in Government - Aided and Unaided Schools - Standard and Management-wise

| Year / Management | S T A N D A R D S | | | | | | | | | | Total | |
|-------------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|------|
| | I (2) | II (3) | III (4) | IV (5) | V (6) | VI (7) | VII (8) | VIII (9) | IX (10) | X (11) | | (12) |
| 1994-95 | | | | | | | | | | | | |
| Government | 202902 | 217162 | 227080 | 231957 | 212225 | 206606 | 217255 | 245121 | 225677 | 173590 | 2159575 | |
| Aided | 302742 | 322265 | 328186 | 332579 | 377674 | 373748 | 399187 | 357347 | 329809 | 253974 | 3377513 | |
| Unaided | 23140 | 22382 | 21533 | 20052 | 18692 | 17460 | 16338 | 14956 | 13651 | 12053 | 180257 | |
| Total | 528784 | 561809 | 576801 | 584588 | 608591 | 597814 | 632780 | 617424 | 569137 | 439617 | 5717345 | |
| 1995-96 | | | | | | | | | | | | |
| Government | 195579 | 210624 | 214658 | 225254 | 203728 | 206195 | 209774 | 237579 | 222783 | 175908 | 2102082 | |
| Aided | 299153 | 316278 | 316893 | 326388 | 369445 | 375531 | 392063 | 349019 | 330417 | 258274 | 3333461 | |
| Unaided | 24316 | 24155 | 22971 | 21815 | 19849 | 18764 | 17426 | 15867 | 14763 | 12284 | 192210 | |
| Total | 519048 | 551057 | 554522 | 573457 | 593022 | 600490 | 619263 | 802465 | 567963 | 446466 | 5627753 | |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.15

Enrolment of Students in Government - Aided and Unaided Schools - Standard and Management-wise

| Year / Management | S T A N D A R D S | | | | | | | | | | | |
|-------------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--|
| | I (2) | II (3) | III (4) | IV (5) | V (6) | VI (7) | VII (8) | VIII (9) | IX (10) | X (11) | Total (12) | |
| 1971 Government | 350656 | 319732 | 300003 | 283427 | 189792 | 142418 | 112391 | 108308 | 88796 | 54125 | 1948648 | |
| Aided | 446259 | 392704 | 366132 | 337902 | 320439 | 270533 | 224440 | 198781 | 168323 | 100732 | 2826225 | |
| Unaided | 3555 | 2985 | 2796 | 2394 | 2332 | 2037 | 1881 | 2628 | 2351 | 1890 | 24649 | |
| Total | 800470 | 715421 | 668931 | 623723 | 512563 | 414988 | 338712 | 308697 | 259470 | 156547 | 4799522 | |
| 1972 Government | Separate figures are not available | | | | | | | | | | | |
| Aided | | | | | | | | | | | | |
| Unaided | | | | | | | | | | | | |
| Total | | | | | | | | | | | | |
| 1973 Government | 294181 | 393735 | 309124 | 281742 | 194980 | 151913 | 121478 | 118403 | 91075 | 53107 | 2909736 | |
| Aided | 380014 | 501878 | 380459 | 349412 | 340198 | 291609 | 242621 | 210896 | 173175 | 101486 | 2971746 | |
| Unaided | 5121 | 4971 | 4305 | 3641 | 4258 | 3383 | 2899 | 4090 | 3432 | 2360 | 38460 | |
| Total | 679316 | 900584 | 693888 | 634795 | 539436 | 446905 | 366998 | 333389 | 267680 | 156953 | 5019944 | |
| 1974 Government | 280199 | 320560 | 369587 | 296884 | 198665 | 164473 | 137558 | 99291 | 116674 | 72497 | 2056388 | |
| Aided | 362107 | 399190 | 434481 | 363539 | 347153 | 312832 | 276683 | 177109 | 213210 | 142183 | 3028487 | |
| Unaided | 5343 | 5304 | 4705 | 3806 | 4233 | 3796 | 3552 | 3608 | 3998 | 2674 | 41019 | |
| Total | 647649 | 725054 | 808773 | 664229 | 550051 | 481101 | 417793 | 28008 | 333882 | 217354 | 5125894 | |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
|------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| 1975 | Government | 278206 | 302238 | 359184 | 218442 | 171575 | 153144 | 137531 | 85238 | 107032 | 2094832 |
| | Aided | 357211 | 376190 | 424529 | 369541 | 321921 | 299648 | 226480 | 150443 | 198858 | 3090211 |
| | Unaided | 5055 | 4751 | 4163 | 4079 | 3855 | 3305 | 3394 | 2801 | 3472 | 40662 |
| | Total | 640472 | 683179 | 779876 | 592062 | 497351 | 456092 | 368005 | 238482 | 309362 | 5225705 |
| 1976 | Government | 275456 | 281166 | 294070 | 235596 | 199773 | 159447 | 146252 | 125600 | 81038 | 2067148 |
| | Aided | 353059 | 347692 | 360324 | 405908 | 346722 | 305536 | 361541 | 201312 | 125796 | 3047405 |
| | Unaided | 5036 | 4704 | 4310 | 3971 | 3708 | 3313 | 3626 | 3891 | 3264 | 40487 |
| | Total | 633551 | 625345 | 658704 | 645475 | 550203 | 468296 | 411419 | 330803 | 210098 | 5155040 |
| 1977 | Government | 280102 | 263655 | 282888 | 247596 | 215654 | 172418 | 140554 | 126222 | 90794 | 2091512 |
| | Aided | 370420 | 3401551 | 326280 | 345689 | 362179 | 313829 | 274896 | 230301 | 149867 | 3060978 |
| | Unaided | 6981 | 4543 | 4412 | 3764 | 3743 | 3661 | 3063 | 3316 | 2787 | 41089 |
| | Total | 657503 | 608349 | 613580 | 597049 | 581576 | 489908 | 418513 | 359839 | 243448 | 5193579 |
| 1978 | Government | 280815 | 270656 | 269266 | 213260 | 193372 | 97863 | 160224 | 132779 | 104898 | 2108352 |
| | Aided | 379204 | 355284 | 346414 | 369955 | 365541 | 368223 | 270751 | 232256 | 170118 | 3240918 |
| | Unaided | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Total | 660019 | 625940 | 615580 | 583215 | 558913 | 588086 | 430975 | 365035 | 275016 | 5349268 |
| 1979 | Government | 267680 | 284646 | 207929 | 270918 | 190471 | 182237 | 190009 | 149279 | 106443 | 2145951 |
| | Aided | 364847 | 365316 | 346552 | 359091 | 393820 | 361684 | 299098 | 257047 | 183009 | 3220180 |
| | Unaided | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Total | 632527 | 649962 | 617470 | 567020 | 494091 | 543921 | 489107 | 408326 | 289452 | 5366131 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | |
|------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| 1980 | Government | 268363 | 287362 | 290362 | 276219 | 207490 | 188314 | 182062 | 191932 | 170554 | 113153 | 2175811 |
| | Aided | 367314 | 373726 | 369644 | 357809 | 370342 | 350932 | 352128 | 308581 | 280053 | 191022 | 3921531 |
| | Unaided | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Total | 635677 | 661088 | 660006 | 834028 | 577832 | 539246 | 534190 | 500493 | 450607 | 304175 | 5497342 |
| 1981 | Government | 267342 | 281494 | 280991 | 286762 | 216579 | 189751 | 182642 | 188333 | 176151 | 133381 | 2203426 |
| | Aided | 356921 | 373231 | 358311 | 362375 | 380489 | 358067 | 350970 | 300989 | 286931 | 211905 | 3339098 |
| | Unaided | 7216 | 7314 | 6652 | 6194 | 6061 | 5755 | 5072 | 6507 | 5379 | 4279 | 60429 |
| | Total | 631479 | 662039 | 645954 | 655331 | 603129 | 553573 | 538684 | 495738 | 468481 | 349565 | 5602953 |
| 1982 | Government | 274709 | 278413 | 274879 | 279415 | 228882 | 201694 | 186318 | 197745 | 177583 | 137596 | 2237234 |
| | Aided | 363546 | 366416 | 362272 | 356940 | 385305 | 366797 | 359803 | 288729 | 275002 | 224680 | 3349470 |
| | Unaided | 7824 | 7727 | 7319 | 6828 | 6638 | 6217 | 5560 | 6343 | 5560 | 4278 | 6494 |
| | Total | 645879 | 652556 | 644470 | 643183 | 620825 | 574708 | 551681 | 492817 | 458145 | 366534 | 5850798 |
| 1983 | Government | 264896 | 282509 | 269704 | 271893 | 227894 | 216240 | 198260 | 202333 | 181661 | 138477 | 2253867 |
| | Aided | 354307 | 366733 | 353149 | 356352 | 378351 | 372875 | 367907 | 290503 | 268241 | 216786 | 3925204 |
| | Unaided | 7093 | 7505 | 7477 | 7122 | 7345 | 7064 | 6261 | 6646 | 6008 | 4681 | 87202 |
| | Total | 626296 | 656747 | 630330 | 635367 | 613590 | 596179 | 572428 | 499482 | 455910 | 359944 | 5646273 |
| 1984 | Government | 250060 | 272253 | 273054 | 266139 | 226323 | 216348 | 211979 | 208592 | 182345 | 141978 | 2249071 |
| | Aided | 344529 | 360620 | 355226 | 349050 | 378851 | 371628 | 376520 | 306831 | 272184 | 209230 | 3324719 |
| | Unaided | 8211 | 7340 | 7351 | 7239 | 8414 | 7887 | 7422 | 7662 | 6636 | 6503 | 74665 |
| | Total | 602800 | 640213 | 635213 | 635631 | 622428 | 613588 | 595863 | 595921 | 523135 | 461165 | 5357711 |
| 1985 | Government | 255053 | 267837 | 267568 | 270398 | 224721 | 213938 | 204772 | 214294 | 184478 | 130659 | 2233718 |
| | Aided | 351110 | 368858 | 355844 | 352108 | 380198 | 371933 | 366477 | 324198 | 285221 | 206646 | 3362593 |
| | Unaided | 11518 | 10114 | 8987 | 8914 | 9095 | 8758 | 8101 | 7712 | 6490 | 5076 | 84765 |
| | Total | 617681 | 646809 | 632399 | 631420 | 614014 | 594629 | 579350 | 546204 | 476189 | 342391 | 5681076 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | |
|------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| 1986 | Government | 260874 | 277696 | 267529 | 268638 | 227210 | 211684 | 201889 | 210541 | 190390 | 127223 | 2243674 |
| | Aided | 355364 | 390806 | 367503 | 358385 | 582874 | 368146 | 355034 | 313502 | 289219 | 190636 | 5371469 |
| | Unaided | 14401 | 13168 | 11089 | 9943 | 10600 | 10410 | 9229 | 8614 | 7905 | 5649 | 101008 |
| | Total | 630639 | 681670 | 646121 | 636966 | 620684 | 590240 | 566152 | 532657 | 487514 | 323508 | 5716151 |
| 1987 | Government | 253615 | 279531 | 269632 | 260523 | 231295 | 215875 | 200885 | 211021 | 189074 | 125241 | 2236692 |
| | Aided | 344902 | 390154 | 374816 | 355817 | 381593 | 371992 | 355191 | 309967 | 290934 | 188314 | 3363680 |
| | Unaided | 16119 | 15846 | 14011 | 11965 | 11038 | 11225 | 10605 | 9912 | 8828 | 7536 | 117085 |
| | Total | 614636 | 685531 | 658459 | 628305 | 623926 | 599092 | 566681 | 530900 | 488836 | 321091 | 5717457 |
| 1988 | Government | 268257 | 281147 | 278461 | 269535 | 232015 | 220328 | 202742 | 209844 | 192088 | 126073 | 2276479 |
| | Aided | 345994 | 389748 | 378230 | 364997 | 383771 | 375130 | 356100 | 312284 | 289819 | 187286 | 3383359 |
| | Unaided | 17802 | 16486 | 16084 | 14353 | 12152 | 11892 | 11465 | 10776 | 9852 | 7956 | 128818 |
| | Total | 630053 | 687381 | 670775 | 648885 | 627938 | 607350 | 570307 | 532904 | 491748 | 321315 | 5788656 |
| 1989 | Government | 248146 | 275421 | 275343 | 272741 | 230716 | 219276 | 216799 | 212025 | 191153 | 149357 | 2290977 |
| | Aided | 342720 | 363075 | 380044 | 372222 | 388627 | 367188 | 379599 | 308417 | 290105 | 226524 | 3427521 |
| | Unaided | 17776 | 16290 | 15986 | 15624 | 12847 | 12063 | 11708 | 10955 | 10680 | 8894 | 133453 |
| | Total | 608642 | 655416 | 671373 | 660587 | 632190 | 607547 | 607106 | 531397 | 491918 | 384775 | 5851951 |
| 1990 | Government | 240043 | 256847 | 269077 | 270354 | 237588 | 219844 | 228077 | 118077 | 302530 | 152629 | 2295066 |
| | Aided | 335528 | 354848 | 356173 | 373983 | 402910 | 385228 | 385255 | 329762 | 290683 | 230390 | 3444760 |
| | Unaided | 18977 | 17980 | 17178 | 16080 | 14474 | 13778 | 12446 | 11279 | 11070 | 8630 | 142890 |
| | Total | 594548 | 649675 | 622428 | 660417 | 654972 | 618848 | 625778 | 459118 | 604283 | 392649 | 5882716 |

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | |
|------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| 1991 | Government | 241875 | 248853 | 253511 | 285248 | 237583 | 228333 | 222592 | 233577 | 208871 | 156329 | 2296572 |
| | Aided | 339294 | 348035 | 348021 | 355424 | 407612 | 396755 | 393812 | 333643 | 305326 | 228992 | 345881 |
| | Unaided | 20061 | 18493 | 17770 | 16018 | 14967 | 14941 | 13311 | 11670 | 10957 | 9527 | 147715 |
| | Total | 601030 | 615381 | 619302 | 636690 | 660062 | 640029 | 629715 | 578890 | 525154 | 394848 | 5901101 |
| 1992 | Government | 227117 | 251242 | 245374 | 251588 | 231029 | 227875 | 228315 | 240337 | 214871 | 165871 | 2283219 |
| | Aided | 327846 | 353177 | 341720 | 346930 | 393267 | 400750 | 406977 | 343222 | 312984 | 241521 | 3468394 |
| | Unaided | 20946 | 20071 | 18218 | 17169 | 15809 | 15000 | 14258 | 12545 | 11588 | 9788 | 155392 |
| | Total | 575909 | 624490 | 605312 | 615687 | 640105 | 643425 | 649550 | 596104 | 539443 | 416980 | 5907005 |
| 1993 | Government | 222718 | 236927 | 244013 | 242887 | 221542 | 223856 | 229486 | 243953 | 216751 | 178828 | 2260894 |
| | Aided | 321984 | 341651 | 343554 | 338976 | 383753 | 390933 | 411690 | 351028 | 317629 | 244923 | 3446121 |
| | Unaided | 21724 | 20772 | 19315 | 17614 | 16676 | 15470 | 14135 | 13388 | 12367 | 10260 | 161721 |
| | Total | 566426 | 599350 | 606882 | 599427 | 621971 | 630259 | 655294 | 608369 | 546747 | 434011 | 5868736 |
| 1994 | Government | 208257 | 231249 | 233723 | 243253 | 211505 | 213979 | 226289 | 248288 | 222805 | 172656 | 2212002 |
| | Aided | 309142 | 335008 | 336352 | 342378 | 374651 | 380460 | 409815 | 358045 | 322834 | 252485 | 3421170 |
| | Unaided | 23194 | 22381 | 20819 | 19298 | 18048 | 16770 | 15320 | 14276 | 13070 | 11757 | 174933 |
| | Total | 540593 | 588638 | 590894 | 604929 | 604204 | 611209 | 651424 | 620609 | 558709 | 436898 | 5808107 |
| 1995 | Government | 202902 | 217162 | 227080 | 231957 | 212225 | 206606 | 217255 | 245121 | 225677 | 173590 | 2159575 |
| | Aided | 302742 | 322265 | 328188 | 332579 | 377674 | 373748 | 399187 | 357347 | 329809 | 253974 | 3377513 |
| | Unaided | 23140 | 22382 | 21533 | 20052 | 18692 | 17460 | 16338 | 14956 | 13651 | 12053 | 180257 |
| | Total | 528784 | 561809 | 576801 | 584588 | 608591 | 597814 | 632780 | 617424 | 569137 | 439617 | 5717345 |
| 1996 | Government | 1295579 | 210624 | 214658 | 225254 | 203728 | 206195 | 209774 | 237579 | 222783 | 175908 | 2102082 |
| | Aided | 299153 | 316278 | 316893 | 326388 | 369445 | 375531 | 392063 | 349019 | 330417 | 258274 | 3333461 |
| | Unaided | 24316 | 24155 | 22971 | 21815 | 19849 | 18764 | 17426 | 15867 | 14763 | 12284 | 192210 |
| | Total | 519048 | 551057 | 554522 | 573457 | 593022 | 600490 | 619263 | 602465 | 567963 | 446466 | 5627753 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.16
Enrolment of Students in Schools in Kerala - Stage-wise

| Year | L.P.S. | | | | U.P.S. | | | | H.S. | | | | Total | | |
|------|---------|----------|---------|----------|--------|----------|---------|---------|--------|---------|---------|---------|---------|-------|--|
| | Govt. | | Unaided | | Govt. | | Unaided | | Govt. | | Unaided | | | Total | |
| | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | | (14) | |
| (1) | | | | | | | | | | | | | | | |
| 1973 | 1279782 | 1611763 | 16038 | 2908583 | 468371 | 974429 | 10540 | 1353339 | 262585 | 485555 | 9992 | 759022 | 5019944 | | |
| 1974 | 1267230 | 1559317 | 19159 | 2845705 | 500696 | 936668 | 11591 | 1448945 | 288462 | 532502 | 10290 | 831244 | 5125894 | | |
| 1975 | 1221870 | 1523325 | 19156 | 2764351 | 543161 | 991105 | 11239 | 1545505 | 329801 | 575791 | 10267 | 915849 | 5225705 | | |
| 1976 | 1119442 | 1400590 | 19714 | 2538746 | 594816 | 1058166 | 10992 | 1663974 | 352890 | 588649 | 10781 | 952320 | 5155040 | | |
| 1977 | 1098274 | 1384217 | 20755 | 2503246 | 635668 | 1021697 | 11168 | 1668533 | 357570 | 655064 | 9196 | 1021800 | 5193579 | | |
| 1979 | 1105958 | 1464072* | -- | 2570029 | 601495 | 1103719* | -- | 1708214 | 397901 | 673125* | -- | 1071026 | 5349269 | | |
| 1979 | 1119583 | 1456631 | -- | 2576214 | 580637 | 1024395 | -- | 1605032 | 445731 | 739154 | -- | 1184885 | 5366131 | | |
| 1980 | 1122306 | 1468493 | -- | 2580799 | 577966 | 1073402 | -- | 1651268 | 475639 | 779636 | -- | 1255275 | 5497342 | | |
| 1981 | 1116589 | 1450838 | 27376 | 2594803 | 589972 | 1088526 | 16898 | 1694386 | 497865 | 799734 | 16165 | 1313764 | 5602963 | | |
| 1982 | 1107416 | 1446174 | 29499 | 2586068* | 616894 | 1111905 | 18415 | 1747214 | 612924 | 798391 | 16191 | 1371496 | 5650799 | | |
| 1983 | 1089002 | 1430541 | 29197 | 2548740 | 642394 | 1119133 | 20670 | 1782197 | 522471 | 775530 | 17335 | 1315336 | 5646273 | | |
| 1984 | 1081506 | 1409425 | 30141 | 2501072 | 654650 | 1126999 | 23723 | 1805372 | 532915 | 789295 | 20801 | 1342011 | 5648455 | | |
| 1985 | 1060856 | 1427920 | 39533 | 2528309 | 634431 | 1118608 | 25954 | 1797993 | 529431 | 916065 | 19279 | 1364774 | 5691076 | | |
| 1986 | 1074737 | 1472058 | 48601 | 2595396 | 640783 | 1106054 | 30239 | 1777076 | 529154 | 793357 | 22189 | 1343679 | 5716151 | | |
| 1987 | 1063301 | 1465689 | 57941 | 2586931 | 648055 | 1108776 | 32868 | 1789699 | 525336 | 789215 | 26276 | 1340827 | 5717457 | | |
| 1988 | 1093400 | 1478969 | 64725 | 2637094 | 655085 | 1115001 | 36509 | 1905595 | 527994 | 799389 | 28584 | 1345967 | 5788656 | | |
| 1989 | 1071651 | 1458061 | 66306 | 2596018 | 666791 | 1144414 | 36638 | 1847843 | 552535 | 825046 | 30509 | 1408090 | 5851951 | | |
| 1990 | 1036321 | 1420532 | 70215 | 2527068 | 685509 | 1173393 | 40696 | 1999599 | 573236 | 850835 | 31979 | 1456050 | 5882716 | | |
| 1991 | 1009287 | 1390774 | 72342 | 2472403 | 688508 | 1198079 | 43219 | 1929806 | 599777 | 867961 | 32154 | 1498892 | 5901101 | | |
| 1992 | 975321 | 1369673 | 76404 | 2421399 | 687019 | 1200994 | 45067 | 1933080 | 620979 | 897727 | 33921 | 1552527 | 5907005 | | |
| 1993 | 946495 | 1346185 | 78425 | 2372085 | 674867 | 1186376 | 46281 | 1907524 | 639532 | 913580 | 36015 | 1589127 | 5868736 | | |
| 1994 | 916482 | 1322880 | 85692 | 2325054 | 651773 | 1164926 | 50138 | 1966837 | 643749 | 933364 | 39103 | 1616219 | 5808107 | | |
| 1995 | 879101 | 1285774 | 87107 | 2251982 | 638086 | 1150609 | 62490 | 1839185 | 644388 | 941130 | 40660 | 1626178 | 5717345 | | |
| 1996 | 846115 | 1258712 | 93257 | 2198084 | 919897 | 1137039 | 56039 | 1812775 | 636270 | 837710 | 42914 | 1816894 | 5627753 | | |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.17
Number of Teachers in Kerala (1971-1996)

| Year | L.P. Schools | | | U.P. Schools | | | High Schools | | | |
|------|--------------|---------------|-----------------|--------------|---------------|-----------------|--------------|---------------|-----------------|------|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| | Government | Private aided | Private Unaided | Government | Private aided | Private unaided | Government | Private aided | Private unaided | |
| 1971 | 21104 | 29016 | 199 | 15298 | 27493 | 242 | 17290 | 30894 | 769 | |
| 1972 | 21698 | 29840 | 208 | 15730 | 28259 | 245 | 17785 | 31773 | 788 | |
| 1973 | 24068 | 32873 | 258 | 16781 | 29841 | 290 | 18355 | 33858 | 1091 | |
| 1974 | 23391 | 30414 | 273 | 16807 | 28704 | 151 | 18478 | 33319 | 852 | |
| 1975 | 22992 | 30885 | 260 | 16652 | 28943 | 165 | 20155 | 33747 | 882 | |
| 1976 | 23299 | 31298 | 263 | 17386 | 30218 | 173 | 20557 | 34418 | 899 | |
| 1977 | 22923 | 31820 | 246 | 17125 | 30297 | 184 | 23718 | 36914 | 981 | |
| 1978 | 22743 | 30551 | 258 | 19189 | 33353 | 191 | 20416 | 40212 | 1052 | |
| 1979 | 22602 | 30362 | 256 | 18497 | 32149 | 183 | 25645 | 42939 | 1122 | |
| 1980 | 22808 | 30365 | 303 | 18098 | 32696 | 221 | 26731 | 42099 | 1289 | |
| 1981 | 21009 | 30658 | 308 | 17123 | 32614 | 234 | 27916 | 43008 | 1433 | |
| 1982 | 20327 | 30899 | 295 | 16006 | 33165 | 262 | 31425 | 43477 | 1505 | |
| 1983 | 19625 | 30616 | 359 | 14994 | 32458 | 251 | 33796 | 46704 | 1615 | |
| 1984 | 19220 | 30680 | 394 | 14598 | 32728 | 326 | 34830 | 47908 | 1847 | |
| 1985 | 19053 | 30156 | 467 | 14667 | 33569 | 522 | 35225 | 48686 | 2028 | |
| 1986 | 18947 | 30118 | 733 | 15245 | 33592 | 476 | 35850 | 49740 | 2543 | |
| 1987 | 19298 | 30436 | 793 | 15890 | 33972 | 558 | 36746 | 50161 | 2632 | |
| 1988 | 19696 | 30763 | 830 | 15835 | 34524 | 627 | 37126 | 50224 | 2774 | |
| 1989 | 19228 | 30202 | 846 | 15850 | 33666 | 656 | 36534 | 50072 | 2771 | |
| 1990 | 19100 | 30211 | 848 | 15873 | 33941 | 622 | 36794 | 49708 | 2904 | |
| 1991 | 18832 | 29885 | 883 | 15568 | 34263 | 645 | 37086 | 49845 | 2957 | |
| 1992 | 17750 | 29319 | 958 | 15727 | 34706 | 750 | 36893 | 50450 | 3241 | |
| 1993 | 17577 | 29122 | 1000 | 15958 | 34799 | 749 | 37065 | 50719 | 3250 | |
| 1994 | 17425 | 28857 | 1005 | 15822 | 34074 | 805 | 37104 | 51224 | 3771 | |
| 1995 | 17089 | 28433 | 1010 | 15703 | 34437 | 950 | 36950 | 51310 | 3811 | |
| 1996 | 16724 | 28276 | 1025 | 15439 | 34183 | 762 | 36333 | 51299 | 3895 | |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.18
Number of Teachers in Kerala

| Year | L.P. Schools | | | U.P. Schools | | | High Schools | | | T.T.J | |
|------|--------------|---------------|-----------------|--------------|---------------|-----------------|--------------|---------------|-----------------|-------|---------------|
| | Govt. | Private aided | Private unaided | Govt. | Private aided | Private unaided | Govt. | Private aided | Private unaided | Govt. | Private aided |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
| 1991 | 18832 | 29885 | 883 | 15568 | 34263 | 645 | 37086 | 49845 | 2957 | 503 | 541 |
| 1992 | 17750 | 29319 | 958 | 15727 | 34706 | 750 | 36893 | 50450 | 3241 | 515 | 501 |
| 1993 | 17577 | 29122 | 1000 | 15959 | 34799 | 749 | 37065 | 50719 | 3250 | 529 | 528 |
| 1994 | 17425 | 28857 | 1005 | 15822 | 34074 | 805 | 37104 | 51224 | 3771 | 488 | 528 |
| 1995 | 17089 | 28433 | 1010 | 15703 | 34437 | 950 | 36950 | 51310 | 3821 | 484 | 533 |
| 1996 | 16724 | 28276 | 1025 | 15439 | 34183 | 762 | 36333 | 51299 | 3895 | 488 | 582 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.19
Number of Students Appeared and Passed Vocational Higher Secondary Education

| Year of Examination | No. appeared | No. passed |
|---------------------|--------------|------------|
| 1992 March | 8713 | 2302 |
| 1992 September | 2202 | 530 |
| 1993 March | 10675 | 3765 |
| 1993 September | 3397 | 904 |
| 1994 March | 11404 | 5732 |
| 1994 September | 2478 | 1120 |
| 1995 October | 4713 | 1298 |
| 1996 March | 14108 | 8214 |
| 1996 September | 8068 | 3866 |

Source : Directorate of VHSE, Thiruvananthapuram.

Appendix - 9.20
Management-wise TTI Institutions, Student Strength and Number of Teachers - 1995 & 1996

| Management (1) | No. of Institutions (2) | Student Strength | | | Number of Teachers | | |
|-------------------|-------------------------------|------------------|--------------|--------------|--------------------|--------------|--------------|
| | | Boys (3) | Girls (4) | Total (5) | Men (6) | Women (7) | Total (8) |
| 1994-95 | | | | | | | |
| Government | 38 | 358 | 1255 | 1613 | 117 | 57 | 174 |
| Aided | 64 | 742 | 2949 | 3691 | 88 | 206 | 294 |
| Unaided | -- | -- | -- | -- | -- | -- | -- |
| Total | 102 | 1100 | 4204 | 5304 | 205 | 263 | 468 |
| 1995-96 | | | | | | | |
| Government | 38 | 313 | 941 | 1254 | 128 | 56 | 184 |
| Aided | 64 | 368 | 1661 | 2029 | 104 | 197 | 301 |
| Unaided | -- | -- | -- | -- | -- | -- | -- |
| Total | 102 | 681 | 2602 | 3283 | 232 | 253 | 485 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Appendix - 9.21
District-wise Number of Arts and Science Colleges in Kerala - 1995-96

| Sl. No. | District | Government | Private aided | Private unaided (provisional) | Total |
|--------------|--------------------|------------|---------------|-------------------------------|------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Thiruvananthapuram | 8 | 12 | 4 | 24 |
| 2. | Kollam | 1 | 12 | 2 | 15 |
| 3. | Pathanamthitta | -- | 9 | -- | 9 |
| 4. | Alleppey | -- | 12 | 1 | 13 |
| 5. | Ernakulam | 4 | 21 | 3 | 28 |
| 6. | Kottayam | 1 | 20 | 3 | 24 |
| 7. | Idukki | 2 | 6 | 1 | 9 |
| 8. | Thrissur | 3 | 17 | 1 | 21 |
| 9. | Malappuram | 3 | 9 | 4 | 16 |
| 10. | Palakkad | 3 | 7 | 2 | 12 |
| 11. | Kozhikode | 6 | 8 | 2 | 16 |
| 12. | Wayanad | 2 | 4 | -- | 6 |
| 13. | Kannur | 2 | 9 | 2 | 13 |
| 14. | Kasaragod | 3 | 2 | -- | 5 |
| Total | | 38 | 148 | 25 | 211 |

Source : Directorate of Collegiate Education, Thiruvananthapuram.

Appendix - 9.22
Enrolment in Arts and Science Colleges in Kerala - University-wise & Stage-wise - 1996
(Provisional)

| Name of University | Pre-Degree | | | Degree | | | Post graduate | | | Total | | | | | | |
|--------------------|--------------|---------------|--------------|-------------|--------------|--------------|---------------|------------|-------------|-------------|-------------|------------|---------------|---------------|--------------|-------------|
| | Boys | Girls | ST | Boys | Girls | ST | Boys | Girls | ST | Boys | Girls | ST | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) |
| 1. Kerala | 28102 | 41906 | 7433 | 274 | 14279 | 26292 | 3661 | 164 | 902 | 2088 | 506 | 28 | 43283 | 70288 | 11600 | 466 |
| 2. Calicut | 34528 | 36692 | 11260 | 744 | 16865 | 28738 | 3205 | 154 | 1316 | 4104 | 298 | 43 | 52709 | 69534 | 14763 | 941 |
| 3. Gandhiji | 29679 | 38464 | 7422 | 625 | 17491 | 24608 | 2691 | 278 | 736 | 2014 | 398 | 31 | 47906 | 65086 | 10511 | 934 |
| Total | 92309 | 117062 | 26115 | 1643 | 48635 | 79638 | 9557 | 596 | 2954 | 8206 | 1202 | 102 | 143898 | 204906 | 36874 | 2341 |

Source : Directorate of Collegiate Education

Appendix - 9.23
Number of Teachers in Arts & Science Colleges 1996

| Sl.No. | Name of University | Government | Private | Total |
|--------|--------------------|-------------|--------------|--------------|
| 1. | Kerala | 621 | 3378 | 3999 |
| 2. | Mahatma Gandhi | 412 | 4251 | 4663 |
| 3. | Calicut | 1251 | 4578 | 5829 |
| | Total | 2284 | 12207 | 14491 |

Source : Directorate of Collegiate Education.

Appendix - 9.24

Year-wise Break up of Private Registration

| Year | Kerala University | | | | | | | | | | Calicut University | | | | | | Mahatma Gandhi University | | | | | | | | |
|------|-------------------|------|------|------|-------|-------|-------|-------|------------|------|--------------------|-------|-------|------|-------|-------|---------------------------|------------|------|------|------|-------|-------|-------|------|
| | Pre-Degree | | BA | MA | B.Com | M.Com | M.Sc. | Total | Pre-Degree | | BA | B.Sc. | B.Com | MA | M.Sc. | M.Com | Total | Pre-Degree | | BA | MA | B.Com | M.Com | Total | |
| | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) | (24) | (25) | (26) |
| 1987 | 38000 | 2900 | 3800 | 7200 | 1500 | -- | 53400 | 33792 | 6081 | 489 | 4500 | 1204 | 527 | 370 | 46963 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1988 | 26841 | 4697 | 5120 | 8724 | 1575 | -- | 46967 | 36547 | 7650 | 852 | 6086 | 1464 | 738 | 670 | 53865 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1989 | 26440 | 3250 | 5325 | 6170 | 2000 | -- | 43185 | 39771 | 11700 | 1173 | 8096 | 2021 | 738 | 665 | 64134 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1990 | 26329 | 4200 | 5636 | 6320 | 2500 | -- | 44985 | 44762 | 12217 | 1647 | 9675 | 2363 | 809 | 716 | 73364 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1991 | 26000 | 4283 | 6580 | 5977 | 2342 | -- | 47164 | 60753 | 14838 | 1800 | 10400 | 2658 | 1170 | 864 | 2490 | 32452 | 2431 | -- | 6310 | -- | -- | -- | -- | 44193 | |
| 1992 | 27000 | 6000 | 7000 | 6250 | 2200 | -- | 48450 | 55347 | 11714 | -- | 8266 | 2864 | -- | 763 | 78935 | 26528 | 3138 | -- | 7282 | -- | -- | -- | -- | 36948 | |
| 1993 | 27600 | 5800 | 9500 | 7000 | 1800 | 590 | 52190 | 58800 | 13147 | -- | 10217 | 3992 | -- | 929 | 87085 | 30777 | 3582 | -- | 8310 | -- | -- | -- | -- | 42869 | |
| 1994 | 31000 | 5500 | 7800 | 7000 | 2169 | 650 | 58619 | 54662 | 7790 | -- | 6419 | 3000 | -- | 875 | 72746 | 29135 | 4001 | -- | 8345 | -- | -- | -- | -- | 41481 | |
| 1995 | 25000 | 5100 | 5675 | 6200 | 2400 | 650 | 45025 | -- | -- | -- | -- | -- | -- | -- | 72746 | -- | -- | -- | -- | -- | -- | -- | -- | 41481 | |

Source : University of Kerala, Calicut and Mahatma Gandhi University.

Appendix - 9.25
University-wise and Management-wise Number of Teachers in Training Colleges and Centres in Kerala - 1996

| Name of University (1) | No. of Training Colleges | | | Number of Teachers | | | | |
|---------------------------|--------------------------|----------------------|------------------------|--------------------|-------------------|----------------------|------------------------|--------------|
| | Government (2) | Private aided (3) | Private unaided (4) | Total (5) | Government (6) | Private aided (7) | Private unaided (8) | Total (9) |
| 1. Kerala | 1 | 7 | -- | 8 | 12 | 45 | -- | 57 |
| 2. Calicut | 3 | 2 | -- | 5 | 53 | 10 | -- | 63 |
| 3. Mahatma Gandhi | -- | 6 | -- | 6 | -- | 53 | -- | 53 |
| Total | 4 | 15 | -- | 19 | 65 | 108 | -- | 173 |

Source : Directorate of Collegiate Education.

Appendix - 9.26
University-wise and Management-wise Student Strength in Training Colleges and Centres in Kerala - 1996

| Name of University | Students Strength | | | Total |
|--------------------|-------------------|---------------|-----------------|-------------|
| | Government | Private aided | Private unaided | |
| 1. Kerala | 200 | 1216 | -- | 1416 |
| 2. Mahatma Gandhi | -- | 1275 | -- | 1275 |
| 3. Calicut | 390 | 525 | -- | 915 |
| Total | 590 | 3016 | -- | 3606 |

Source : Directorate of Collegiate Education.

Appendix - 9.27
Number of Students and Teachers in Engineering Colleges 1995 & 1996

| Type of Institutions | Intake of students | | | | | | | Teachers | | | | |
|------------------------------------------------------|--------------------|--------------|--------------|-------------|--------------|--------------|------------|--------------|---------------|-------------|---------------|---------------|
| | 1995 | | | 1996 | | | | 1995 | | 1996 | | |
| | Boys (2) | Girls (3) | Total (4) | Boys (5) | Girls (6) | Total (7) | Men (8) | Women (9) | Total (10) | Men (11) | Women (12) | Total (13) |
| Government | | | | | | | | | | | | |
| 1. College of Engineering Thiruvananthapuram | 350 | 169 | 519 | 337 | 165 | 502 | 164 | 54 | 218 | 178 | 74 | 252 |
| 2. Engineering College, Thrissur | 320 | 110 | 430 | 288 | 119 | 407 | 67 | 23 | 90 | 109 | 40 | 149 |
| 3. College of Engineering, Kannur | 110 | 50 | 160 | 113 | 41 | 154 | 26 | 18 | 44 | 30 | 18 | 48 |
| 4. College of Engineering, Kottayam | 117 | 43 | 160 | 103 | 52 | 155 | 28 | 16 | 42 | 28 | 16 | 42 |
| 5. Regional Engineering College, Kozhikode | -- | -- | 350 | -- | -- | 350 | -- | -- | -- | -- | -- | -- |
| II. Private | | | | | | | | | | | | |
| 1. T.K.M. Engineering College Koilam | 250 | 190 | 440 | 262 | 126 | 390 | 114 | 62 | 178 | 133 | 66 | 199 |
| 2. Mar Athanasius College of Engg., Kothamangalam | 240 | 100 | 340 | 210 | 97 | 307 | 80 | 36 | 118 | 80 | 36 | 116 |
| 3. N.S.S. College of Engineering Palakkad | 251 | 91 | 342 | 215 | 93 | 308 | 99 | 43 | 142 | 99 | 43 | 142 |
| Total | 1638 | 753 | 2741 | 1528 | 695 | 2573 | 576 | 252 | 828 | 855 | 293 | 948 |

Source : Directorate of Technical Education.

Appendix - 9.28

Technical Education Institutions in Karnataka, Tamil Nadu & Andhra Pradesh - 1996

| Sl. No. | Type of Institutions | Government | | | Private aided | | | Private unaided | | |
|----------------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| | | No. of Institutions | Total Annual Intake | No. of Institutions | Total Annual Intake | No. of Institutions | Total Annual Intake | No. of Institutions | Total Annual Intake | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | |
| I. Karnataka | | | | | | | | | | |
| 1. | Engineering Colleges | 5 | 1280 | 11 | 5378 | 35 | 13215 | | | |
| 2. | Polytechnics | 33 | 6445 | 7 | 2055 | 133 | 19955 | | | |
| II. Tamil Nadu | | | | | | | | | | |
| 1. | Engineering Colleges | 7 | 1710 | 3 | 760 | 70 | 17850 | | | |
| 2. | Polytechnics | 21 | 3975 | 35 | 7389 | 97 | 20350 | | | |
| III. Andhra Pradesh | | | | | | | | | | |
| 1. | Engineering Colleges | -- | -- | -- | -- | -- | -- | | | |
| 2. | Polytechnics | 82 | -- | 4 | -- | 21 | -- | | | |
| a) | Diploma | - | 9675 | - | 805 | - | 4435 | | | |
| b) | Part-time Diploma | - | 680 | - | -- | - | -- | | | |
| c) | Post Diploma | - | 300 | - | 40 | - | - | | | |

Source : Directorate of Technical Education, Karnataka, Tamil Nadu & Andhra Pradesh.

Appendix - 9.29

Course-wise Annual Intake of Students Strength in Engineering Colleges - Post Graduate Level

| Name of Course | 1994 Intake | 1995 Intake | 1996 Intake |
|--------------------------------------------|-------------|-------------|-------------|
| 1. Civil Engineering | 57 | 57 | 57 |
| 2. Mechanical Engineering | 42 | 42 | 42 |
| 3. Electrical Engineering | 41 | 41 | 41 |
| 4. Electronics Engineering | 5 | 5 | 5 |
| 5. Chemical Engineering | 6 | 6 | 6 |
| 6. Production-cum-plant Engineering | Nil | Nil | Nil |
| 7. Instrumentation and Central System | 10 | 10 | 10 |
| 8. Production Engineering | 6 | 6 | 6 |
| 9. Applied Electronics and Instrumentation | 5 | 5 | 5 |
| 10. Architecture | 5 | 5 | 5 |
| 11. Industrial Engineering | 15 | 15 | 15 |
| 12. Electrical Communication | Nil | Nil | Nil |
| 13. Computer Science | Nil | Nil | Nil |
| 14. Production and Management | Nil | Nil | Nil |
| 15. M.C.A. | 120 | 120 | 120 |
| Total | 312 | 312 | 312 |

Source : Directorate of Technical Education.

Appendix - 9.30

No. of SC/ST Students and SC/ST Teachers in Engineering Colleges during 1995-96

| Type of Institution | No. of Institutions | | Enrolment | | | | No. of Teachers | | | |
|---------------------|---------------------|------|-----------|----------------|-------|----------------|-----------------|----------------|-------|----------------|
| | 1995 | 1996 | 1995 | | 1996 | | 1995 | | 1996 | |
| | (2) | (3) | Total | Of which SC/ST | Total | Of which SC/ST | Total | Of which SC/ST | Total | Of which SC/ST |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Government | 4 | 4 | 1269 | 117 | 1218 | 109 | 494 | 22 | 491 | 29/Nil |
| Private Aided | 3 | 3 | 1212 | 89 | 615 | 86 | 434 | -- | 457 | -- |
| Total | 7 | 7 | 2481 | 196 | 1833 | 195 | 928 | 22 | 948 | 29 |

Source : Directorate of Technical Education

Appendix - 9.31

Total Students and Staff in Technical High Schools

| Year | Students | | | Teachers | | |
|-------|----------|-------|-------|----------|-------|-------|
| | Boys | Girls | Total | Men | Women | Total |
| 1994 | 6986 | 768 | 7754 | 838 | 208 | 1046 |
| 1995 | 6233 | 692 | 6925 | 818 | 198 | 1018 |
| 1996 | 5639 | 616 | 6255 | 818 | 198 | 1018 |
| Total | 18858 | 2076 | 20934 | 2474 | 604 | 3078 |

Source : Directorate of Technical Education.

Appendix - 9.32
Annual Intake and Out-turn in Polytechnics in Kerala

| Year (1) | Number of Polytechnics | | | Student strength | | | Annual Intake | | | Out-turn | | |
|-------------|------------------------|----------------|------------------------------------|------------------|----------------|--------------|---------------|----------------|---------------|---------------|-----------------|---------------|
| | Govt. (2) | Private (3) | Total (4) | Govt. (5) | Private (6) | Total (7) | Govt. (8) | Private (9) | Total (10) | Govt. (11) | Private (12) | Total (13) |
| 1994-95 | 32 | 7 | 39 | 10560 | 2911 | 13471 | 4794 | 1260 | 6054 | -- | -- | -- |
| | | | (including Polytechnic) | | | | | | | | | |
| | | | (J.D.T.E. Isalam, Kozhikode) | | | | | | | | | |
| 1995-96 | 32 | 6 | 36 | 13696 | 3750 | 17446 | 4920 | 1260 | 6180 | -- | -- | 2376 |
| 1996-97 | 32 | 6 | 38 | 14191 | 3750 | 17941 | 4830 | 1260 | 6090 | -- | -- | -- |

Source : Directorate of Technical Education.

Appendix - 9.33
Total Students and Staff Strength in Polytechnics

| Type of Institutions | Students | | | | | | Teachers | | | | | |
|----------------------|--------------|-------------|--------------|--------------|-------------|--------------|-------------|------------|-------------|-------------|------------|-------------|
| | 1995 | | | 1996 | | | 1995 | | 1996 | | | |
| | Boys | Girls | Total | Boys | Girls | Total | Men | Women | Total | Men | Women | Total |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
| Government | 9262 | 4434 | 13696 | 9861 | 4330 | 14191 | 807 | 208 | 1015 | 829 | 228 | 1129 |
| Private | 2625 | 1125 | 3750 | 2650 | 1100 | 3750 | 324 | 48 | 372 | 324 | 48 | 372 |
| Total | 11887 | 5559 | 17446 | 12511 | 5430 | 17941 | 1131 | 256 | 1387 | 1153 | 276 | 1501 |

Source : Directorate of Technical Education.

APPENDIX - 9.34
Medical Institutions and Beds in Kerala - Category-wise - 1996

| Sl. No. | District | Hospitals | | PHCs including MCH centres | | Community Health Centres | | Dispensaries | | T.B. Clinics/ Centres | | Leprosy Control Units/Leprosy Sanatorium | |
|--------------|--------------------|------------|--------------|----------------------------|-------------|--------------------------|-------------|--------------|------------|-----------------------|------------|------------------------------------------|------|
| | | No. | Beds | No. | Beds | No. | Beds | No. | Beds | No. | Beds | No. | Beds |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| 1. | Thiruvananthapuram | 19 | 6067 | 79 | 388 | 7 | 416 | 7 | 34 | 1 | 28 | 1 | |
| 2. | Kollam | 12 | 1696 | 65 | 296 | 4 | 70 | -- | -- | 2 | -- | 3 | |
| 3. | Pathanamthitta | 7 | 507 | 50 | 277 | 2 | 145 | 1 | -- | 1 | 12 | -- | |
| 4. | Alappuzha | 12 | 3442 | 69 | 286 | 4 | 202 | 2 | -- | 2 | 76 | 1 | |
| 5. | Kottayam | 13 | 2477 | 65 | 489 | 4 | 340 | -- | -- | 2 | 60 | -- | |
| 8. | Idukki | 3 | 328 | 57 | 372 | 2 | 140 | 1 | -- | 1 | -- | -- | |
| 7. | Ernakulam | 20 | 2791 | 80 | 611 | 7 | 401 | 3 | 68 | 4 | 40 | -- | |
| 8. | Thrissur | 19 | 3399 | 89 | 491 | 5 | 197 | 6 | 6 | 1 | -- | 2 | |
| 9. | Palakkad | 8 | 1031 | 87 | 773 | 4 | 274 | 8 | -- | 1 | -- | 1 | |
| 10. | Malappuram | 8 | 1319 | 98 | 578 | 5 | 198 | 6 | -- | 2 | 52 | 3 | |
| 11. | Kozhikode | 11 | 3972 | 70 | 184 | 8 | 228 | 3 | -- | 1 | -- | 2 | |
| 12. | Wayanad | 3 | 374 | 26 | 242 | 4 | 195 | 5 | -- | 1 | -- | -- | |
| 13. | Kannur | 10 | 1709 | 79 | 246 | 3 | 114 | 8 | 46 | 1 | -- | -- | |
| 14. | Kasaragod | 4 | 469 | 47 | 107 | 3 | 91 | 3 | -- | 1 | -- | 2 | |
| Total | | 149 | 29581 | 961 | 5338 | 60 | 3007 | 53 | 154 | 21 | 268 | 15 | |

Appendix - 0.35

District-wise availability of Vehicles under DHS - 1996

| District | Vehicles in running condition | Vehicles in workshop | Others | Total |
|--------------------|-------------------------------|----------------------|------------|------------|
| (1) | (2) | (3) | (4) | (5) |
| Thiruvananthapuram | 73 | 7 | 1 | 81 |
| Kollam | 37 | 8 | 1 | 46 |
| Pathanamthitta | 22 | 3 | 4 | 29 |
| Alappuzha | 42 | 7 | 4 | 53 |
| Kottayam | 35 | 10 | 26 | 71 |
| Idukki | 22 | 10 | 16 | 48 |
| Ernakulam | 38 | 6 | 4 | 48 |
| Thrissur | 46 | 3 | 20 | 69 |
| Palakkad | 66 | 8 | 14 | 88 |
| Malappuram | 67 | 8 | 17 | 92 |
| Kozhikode | 44 | 3 | 9 | 56 |
| Wayanad | 25 | 5 | 9 | 39 |
| Kannur | 32 | 8 | 27 | 65 |
| Kasaragod | 22 | 2 | 5 | 29 |
| Total | 571 | 86 | 157 | 814 |

Appendix - 9.36

Statement showing No. of attacks and deaths due to principal communicable diseases

| Sl. No. | Name of Diseases | 1994-1995 | | 1995-1996 | |
|---------|-----------------------------|-----------|-------|-----------|-------|
| | | Attack | Death | Attack | Death |
| 1. | Acute Diarrhoeal Diseases | 779445 | 61 | 707246 | 21 |
| 2. | Diphtherie | 33 | 3 | 33 | 4 |
| 3. | Acute poliomyelitis | 8 | 1 | -- | -- |
| 4. | Tetanus (others) | 33 | 5 | 45 | 7 |
| 5. | Neonetal Tetanus | 6 | 4 | -- | -- |
| 6. | Whooping cough | 1748 | -- | 1375 | -- |
| 7. | Measles | 8373 | 4 | 6107 | 1 |
| 8. | Acute respiratory infection | 3003466 | 96 | 3032563 | 139 |
| 9. | Pneumonia | 18649 | 25 | 21753 | 26 |
| 10. | Enteric fever | 8271 | 4 | 7749 | 6 |
| 11. | Viral Hepetitis | 11603 | 14 | 11488 | 9 |
| 12. | Menningococcal Menningitis | 115 | 11 | 98 | 7 |
| 13. | Rabies | 187 | 18 | 186 | 11 |
| 14. | Syphills | 446 | 1 | 720 | 1 |
| 15. | Gonococcal Infection | 1572 | -- | 456 | -- |
| 16. | Japaneese Encephelitis | -- | -- | 105 | 31 |
| 17. | Pulmarery Tuberculosis | 37774 | 224 | 42091 | 272 |
| 18. | All other diseases | 11422148 | 4762 | 11055694 | 4177 |

Appendix - 9.37
Communicable Diseases - Status Kerala 1996

| Sl. No. | Name of Diseases | Population exposed to risk | | Prevalence rate | |
|---------|-------------------------------------------------|----------------------------|-----------|-----------------|-----------|
| | | Kerala | All India | Kerala | All India |
| 1. | Leprosy | 30000000 | NA | 0.22 | NA |
| 2. | Tuberculosis | 30000000 | " | 1.64 | " |
| 3. | Filaria | 66.3 lakhs | " | -- | " |
| 4. | Acute diarrhoeal disease | 3900000 | " | 181.35 | " |
| 5. | Diphtheria | 600000 | " | 0.055 | " |
| 6. | Poliomyelitis | 3900000 | " | -- | " |
| 7. | Whooping cough | 3900000 | " | 0.353 | " |
| 8. | Tetanus | 600000 | " | -- | " |
| 9. | Measles | 3900000 | " | 1.57 | " |
| 10. | Acute respiratory infection including pneumonia | 3900000 | " | 777.58 | " |
| 11. | Malaria | 30000000 | " | 0.43 | " |

Note : Prevalence rate is calculated per 1000 population.

APPENDIX - 9.38

**District-wise distribution of InstitutionsS 158, Beds and Patients treated under Ayurvedic Systems of
Medicine in Kerala - 1995 and 1996**

| Sl. No. | District | No. of Hospitals | | No. of Beds | | No. of Dispensaries | | Total No. of Institutions | | Total No. of patients treated 1996 | |
|--------------|--------------------|------------------|------------|-------------|-------------|---------------------|------------|---------------------------|------------|------------------------------------|----------------|
| | | 1995 | 1996 | 1995 | 1996 | 1995 | 1996 | 1995 | 1996 | in-patients | out-patients |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
| 1. | Thiruvananthapuram | 13 | 13 | 255 | 255 | 51 | 52 | 64 | 65 | 4092 | 1781202 |
| 2. | Kollam | 9 | 9 | 170 | 190 | 38 | 38 | 47 | 47 | 3524 | 1158742 |
| 3. | Alappuzha | 10 | 10 | 180 | 180 | 42 | 43 | 52 | 53 | 1500 | 1499378 |
| 4. | Pathanamthitta | 4 | 4 | 80 | 80 | 33 | 34 | 37 | 38 | 1193 | 821097 |
| 5. | Kottayam | 8 | 8 | 150 | 150 | 33 | 33 | 41 | 41 | 1175 | 843858 |
| 6. | Idukki | 3 | 3 | 110 | 110 | 27 | 27 | 30 | 30 | 1201 | 623840 |
| 7. | Ernakulam | 13 | 13 | 230 | 230 | 49 | 49 | 62 | 62 | 2559 | 1306297 |
| 8. | Thrissur | 14 | 14 | 223 | 243 | 68 | 89 | 82 | 83 | 1463 | 1394339 |
| 9. | Palakkad | 5 | 5 | 130 | 130 | 54 | 55 | 59 | 60 | 1219 | 741488 |
| 10. | Malappuram | 10 | 10 | 200 | 200 | 55 | 55 | 65 | 65 | 995 | 1031288 |
| 11. | Kozhikode | 8 | 6 | 170 | 170 | 39 | 39 | 45 | 45 | 1230 | 1061673 |
| 12. | Wayanad | 2 | 2 | 100 | 100 | 19 | 19 | 21 | 21 | 1001 | 357413 |
| 13. | Kannur | 6 | 8 | 211 | 211 | 44 | 44 | 50 | 50 | 1584 | 897331 |
| 14. | Kasaragod | 5 | 5 | 100 | 100 | 30 | 30 | 35 | 35 | 781 | 451221 |
| Total | | 108 | 108 | 2309 | 2349 | 582 | 587 | 690 | 695 | 23517 | 1369197 |

Appendix - 9.39
District-wise distribution of Institutions and Beds under Homoeopathy (1995 and 1996)

| District | No. of Hospitals | | No. of Beds in Hospitals | | No. of dispensaries | | Total No. of Institutions | |
|-----------------------|------------------|-----------|--------------------------|------------|---------------------|------------|---------------------------|------------|
| | 1995 | 1996 | 1995 | 1996 | 1995 | 1996 | 1995 | 1996 |
| 1. Thiruvananthapuram | 4 | 4 | 175 | 175 | 37 | 38 | 41 | 42 |
| 2. Kollam | 3 | 3 | 75 | 75 | 27 | 29 | 30 | 32 |
| 3. Pathanamthitta | 1 | 1 | 25 | 25 | 19 | 20 | 20 | 21 |
| 4. Alappuzha | 3 | 3 | 75 | 75 | 30 | 30 | 33 | 33 |
| 5. Kottayam | 3 | 3 | 175 | 175 | 31 | 33 | 34 | 36 |
| 6. Idukki | 2 | 2 | 50 | 50 | 26 | 26 | 28 | 28 |
| 7. Ernakulam | 3 | 3 | 75 | 75 | 41 | 42 | 44 | 45 |
| 8. Thrissur | 1 | 1 | 25 | 25 | 26 | 27 | 27 | 28 |
| 9. Palakkad | 1 | 1 | 25 | 25 | 26 | 27 | 27 | 28 |
| 10. Malappuram | 2 | 2 | 50 | 50 | 32 | 33 | 34 | 35 |
| 11. Kozhikode | 3 | 3 | 75 | 75 | 32 | 33 | 35 | 36 |
| 12. Wayanad | 1 | 1 | 25 | 25 | 13 | 13 | 14 | 14 |
| 13. kannur | 1 | 1 | 25 | 25 | 26 | 26 | 27 | 27 |
| 14. Kasaragod | 3 | 3 | 75 | 75 | 17 | 17 | 20 | 20 |
| Total | 31 | 31 | 950 | 950 | 384 | 394 | 415 | 425 |

Appendix - 9.40

Family Welfare Programme in 1996 - District-wise

| Sl. No. | District | Vasectomy | PPS | Minilap | Laprosopic | Total (3+4+5) | LL | CUT | Total 7 to 8 | Nirodh supplied CC | Oral | Induced abortion |
|--------------|--------------------|------------|--------------|--------------|--------------|---------------|-----------|--------------|--------------|--------------------|---------------|------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | |
| 1. | Thiruvananthapuram | 40 | 11880 | 1827 | 2247 | 15954 | -- | 7771 | 7771 | 2537841 | 47447 | |
| 2. | Kollam | 23 | 11842 | 1297 | 1420 | 14559 | -- | 6820 | 6820 | 1355920 | 53230 | |
| 3. | Alappuzha | 123 | 5666 | 2113 | 94 | 7793 | -- | 6287 | 6287 | 1045374 | 32097 | |
| 4. | Pathanamthitta | 8 | 3846 | 466 | 1526 | 5838 | -- | 2980 | 2980 | 757543 | 17040 | |
| 5. | Kottayam | 29 | 4171 | 297 | 1906 | 6376 | -- | 7123 | 7123 | 1178570 | 34317 | |
| 6. | Idukki | 16 | 2490 | 774 | 1025 | 4289 | -- | 3792 | 3792 | 918338 | 16820 | |
| 7. | Ernakulam | 84 | 8264 | 482 | 2386 | 11132 | -- | 7558 | 7558 | 2128283 | 37370 | |
| 8. | Thrissur | 48 | 7116 | 728 | 2664 | 10510 | -- | 7421 | 7421 | 1834708 | 42679 | |
| 9. | Palakkad | 3 | 6463 | 524 | 4899 | 11886 | -- | 7848 | 7848 | 1320076 | 14715 | |
| 10. | Malappuram | 14 | 6262 | 988 | 338 | 7586 | -- | 5657 | 5657 | 1284343 | 28996 | |
| 11. | Kozhikode | 48 | 8475 | 1567 | 2332 | 12374 | -- | 6243 | 6243 | 1162342 | 37275 | |
| 12. | Wayanad | 23 | 2568 | 305 | -- | 2873 | -- | 2730 | 2730 | 727067 | 18051 | |
| 13. | Kannur | 27 | 6302 | 671 | 272 | 7245 | -- | 6045 | 6045 | 1545265 | 35853 | |
| 14. | Kasaragod | 7 | 1701 | 304 | 106 | 2111 | -- | 3329 | 3329 | 1038779 | 27381 | |
| Total | | 493 | 86968 | 12341 | 21217 | 120526 | -- | 61613 | 81613 | 18634429 | 443471 | |

Appendix - 9.41

District-wise Population covered by Urban Water Supply Schemes

| Sl. No. | District | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 |
|---------|--------------------|---------|---------|---------|---------|---------|---------|
| 1. | Thiruvananthapuram | 562375 | 721140 | 728200 | 728700 | 728700 | 733000 |
| 2. | Kollam | 306300 | 309000 | 312400 | 312850 | 333490 | 463490 |
| 3. | Pathanamthitta | 83520 | 84350 | 85200 | 85200 | 85200 | 85200 |
| 4. | Alappuzha | 485000 | 489000 | 494700 | 494700 | 494700 | 494700 |
| 5. | Kottayam | 244000 | 246000 | 248000 | 248200 | 363310 | 363310 |
| 6. | Idukki | 10000 | 10600 | 38900 | 38900 | 38900 | 38900 |
| 7. | Ernakulam | 886800 | 895600 | 904500 | 905100 | 906295 | 1060996 |
| 8. | Thrissur | 530100 | 535400 | 540700 | 641300 | 542270 | 542270 |
| 9. | Palakkad | 228300 | 230600 | 232800 | 233100 | 233900 | 256750 |
| 10. | Malappuram | 174300 | 176000 | 177700 | 178050 | 187234 | 238334 |
| 11. | Kozhikode | 548500 | 554000 | 559400 | 559866 | 560116 | 596850 |
| 12. | Wayanad | 10500 | 11000 | 11500 | 11500 | 11500 | 11500 |
| 13. | Kannur | 480300 | 485100 | 489200 | 489550 | 504356 | 577503 |
| 14. | Kasaragod | 221400 | 223600 | 225800 | 225800 | 228850 | 228850 |
| Total | | 4771395 | 4971990 | 5049700 | 5052866 | 5217821 | 5691653 |

Appendix - 9.42

District-wise Population covered by Rural Water Supply Schemes

| Sl. No. | District | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|--------------|--------------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| 1. | Thiruvananthapuram | 758000 | 879000 | 964000 | 964000 | 1165278 | 1204178 |
| 2. | Kollam | 807000 | 807000 | 843000 | 843000 | 714138 | 843761 |
| 3. | Pathanamthitta | 261000 | 295000 | 325000 | 325000 | 476839 | 537928 |
| 4. | Alappuzha | 753000 | 803000 | 853000 | 853000 | 675266 | 706889 |
| 5. | Kottayam | 667000 | 674000 | 705000 | 705000 | 618409 | 665159 |
| 6. | Idukki | 311000 | 321000 | 331000 | 331000 | 270359 | 314222 |
| 7. | Ernakulam | 675000 | 717000 | 747000 | 747000 | 969346 | 1050775 |
| 8. | Thrissur | 855000 | 1109000 | 1147000 | 1147000 | 1038550 | 1170410 |
| 9. | Palakkad | 1066000 | 1098000 | 1151000 | 1151000 | 918218 | 924678 |
| 10. | Malappuram | 590000 | 591000 | 627000 | 627000 | 663085 | 1062925 |
| 11. | Kozhikode | 374000 | 379000 | 228000 | 228000 | 294279 | 367439 |
| 12. | Wayanad | 150000 | 162000 | 188000 | 188000 | 270569 | 298266 |
| 13. | Kannur | 215000 | 220000 | 236000 | 236000 | 361587 | 423605 |
| 14. | Kasaragod | 256000 | 281000 | 290000 | 290000 | 530739 | 557377 |
| Total | | 7736000 | 8336000 | 8835000 | 8835000 | 8986642 | 10127612 |

Appendix - 9.43

House Constructed in Kerala, District-wise

| Sl. No. | District | 1991-92 | 1992-93 | 1993-94 | 1994-95 | Total |
|---------|--------------------|---------|---------|---------|---------|--------|
| 1. | Thiruvananthapuram | 16105 | 14515 | 12383 | 13849 | 56852 |
| 2. | Kollam | 9055 | 9844 | 7776 | 7665 | 34340 |
| 3. | Pathanamthitta | 6262 | 4632 | 5715 | 4490 | 21099 |
| 4. | Alappuzha | 10469 | 12107 | 10557 | 8417 | 41550 |
| 5. | Kottayam | 9251 | 6585 | 9055 | 6312 | 31203 |
| 6. | Idukki | 3234 | 4381 | 3045 | 2748 | 13408 |
| 7. | Ernakulam | 17262 | 14884 | 17427 | 17071 | 66644 |
| 8. | Thrissur | 15028 | 10852 | 10552 | 13092 | 49524 |
| 9. | Palakkad | 8536 | 6374 | 6436 | 7524 | 28870 |
| 10. | Malappuram | 13967 | 10552 | 12994 | 12893 | 50406 |
| 11. | Kozhikode | 18786 | 16494 | 22314 | 21387 | 78981 |
| 12. | Wayanad | 3014 | 2473 | 2031 | 2484 | 10002 |
| 13. | Kannur | 8907 | 8942 | 8865 | 9771 | 36485 |
| 14. | Kasaragod | 5558 | 4111 | 4818 | 5110 | 19597 |
| Total | | 132859 | 115302 | 120761 | 118568 | 487490 |

Appendix - 10.1
District-wise Beneficiaries of surplus land and extent of land
distributed as on 30-11-96.

| Sl. No. | District | Scheduled Castes. | | Scheduled Tribes | | Others. | | Total | |
|---------|--------------------|-------------------|----------------|------------------|----------------|---------|----------------|--------|----------------|
| | | No. | Extent (Acres) | No. | Extent (Acres) | No. | Extent (Acres) | No. | Extent (Acres) |
| 1. | Kasaragod | 4047 | 3274 | 790 | 670 | 7263 | 5833 | 12100 | 9777 |
| 2. | Kannur | 4019 | 2465 | 1873 | 1471 | 8387 | 5757 | 14279 | 9693 |
| 3. | Wayanad | 1358 | 486 | 2748 | 1533 | 2853 | 1325 | 8959 | 3344 |
| 4. | Kozhikkode | 5023 | 1244 | 245 | 102 | 5991 | 1288 | 11259 | 2632 |
| 5. | Malappuram | 8319 | 3396 | 34 | 12 | 7746 | 3986 | 16099 | 7394 |
| 6. | Palakkad | 12720 | 5592 | 1224 | 949 | 13311 | 8284 | 27255 | 12825 |
| 7. | Trissur | 7590 | 1411 | 67 | 50 | 12346 | 2223 | 20003 | 3684 |
| 8. | Ernakulam | 3910 | 736 | 40 | 5 | 2447 | 418 | 6397 | 1159 |
| 9. | Idukki | 2218 | 2042 | 360 | 315 | 2411 | 2138 | 4989 | 4495 |
| 10. | Kottayam | 2417 | 1245 | 78 | 60 | 2841 | 1232 | 5334 | 2537 |
| 11. | Alappuzha | 3968 | 2159 | 48 | 7 | 4322 | 2332 | 8338 | 4498 |
| 12. | Pathanamthitta | 330 | 86 | .. | .. | 394 | 68 | 724 | 154 |
| 13. | Kollam | 3424 | 776 | .. | .. | 3214 | 822 | 6638 | 1598 |
| 14. | Thiruvananthapuram | 3099 | 335 | .. | .. | 2390 | 275 | 5489 | 610 |
| Total | | 62442 | 25247 | 7505 | 5174 | 75916 | 33979 | 145863 | 64400 |

Source: Land Board

Appendix-10.2

District-wise details of enrolment of SC/ST students at School level as on 1-7-1996 (School-wise)

| District | L P S | | | U P S | | | H S | | Attached section of TTI | | | |
|--------------------|---------|--------|-------|---------|--------|-------|---------|--------|-------------------------|---------|------|----|
| | General | SC | ST | General | SC | ST | General | SC | ST | General | SC | ST |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Thiruvananthapuram | 128498 | 19503 | 792 | 96871 | 15723 | 830 | 282757 | 40085 | 2240 | 4522 | 493 | 9 |
| Kollam | 11094 | 17715 | 473 | 90311 | 15403 | 325 | 225085 | 33394 | 758 | 880 | 225 | .. |
| Pathanamthitta | 53134 | 8746 | 348 | 33153 | 8013 | 162 | 111772 | 19813 | 663 | 458 | 68 | .. |
| Alappuzha | 80766 | 8748 | 153 | 56306 | 8881 | 161 | 189657 | 21668 | 353 | 3179 | 587 | 8 |
| Kottayam | 78387 | 6869 | 742 | 55638 | 5826 | 637 | 173698 | 17236 | 2199 | 1028 | 90 | 3 |
| Idukki | 41788 | 8887 | 1688 | 41077 | 6475 | 2415 | 92328 | 12718 | 3684 | 71 | 2 | .. |
| Ernakulam | 100855 | 10714 | 363 | 85365 | 9417 | 332 | 273211 | 27667 | 824 | 1000 | 164 | 5 |
| Trissur | 131440 | 17570 | 500 | 118351 | 16661 | 246 | 261025 | 33813 | 431 | 883 | 121 | 5 |
| Palakkad | 125327 | 21786 | 2412 | 168833 | 29108 | 1316 | 206843 | 29344 | 1598 | 1798 | 376 | .. |
| Malappuram | 233035 | 17302 | 632 | 285864 | 23218 | 858 | 289855 | 22903 | 318 | .. | .. | .. |
| Kozhikkod | 128491 | 7584 | 332 | 192214 | 15245 | 332 | 222128 | 15513 | 618 | 1127 | 151 | 1 |
| Wayanad | 27783 | 1513 | 8008 | 48488 | 2391 | 7870 | 63096 | 3712 | 8433 | 1278 | 51 | 48 |
| Kannur | 111121 | 4420 | 884 | 171746 | 8779 | 2008 | 186687 | 8833 | 1233 | 1231 | 58 | .. |
| Kasaragod | 48758 | 4163 | 1110 | 71739 | 5579 | 2008 | 118792 | 8114 | 3082 | 525 | 34 | .. |
| Total | 1399478 | 155638 | 16218 | 1515356 | 188828 | 19699 | 2894932 | 294811 | 28435 | 17987 | 2330 | 79 |

Source:- Director of Public Instructions

Appendix - 10.3
Admission details of Scheduled Caste and Scheduled Tribe Students
In Medical and Para Medical courses 1996

| Course | Total | SC | ST |
|----------------------------------|-------|----|----|
| M.B.B.S | 700 | 43 | 11 |
| B.D.S | 80 | 5 | 1 |
| M.D.S | 24 | 4 | .. |
| B.Pharm | 28 | 1 | .. |
| BSc Nursing | 150 | 12 | 2 |
| BSc MLT | 24 | 2 | .. |
| MSc Nursing | 16 | 2 | .. |
| MLT Certificate | .. | 32 | .. |
| C.R.A. Certificate | .. | 36 | .. |
| Ophthalmic Assistant Certificate | .. | 24 | .. |
| D Pharm Diploma | 20 | 12 | 3 |
| Certificate-Course in Nursing | 30 | 29 | 1 |

Source : Directorate of Medical Education

Appendix - 10.4
Number of Houses constructed by the Scheduled Caste Development Department.

| District | 1992-93 | 1993-94 | 1994-95 | 1995-96 |
|-----------------------|-------------|-------------|-------------|-------------|
| 1. Thiruvananthapuram | 259 | 356 | 370 | 189 |
| 2. Kollem | 289 | 379 | 279 | 86 |
| 3. Alappuzhe | 172 | 188 | 105 | 16 |
| 4. Pathanamthitte | 205 | 181 | 159 | 116 |
| 5. Kottayam | 145 | 164 | 153 | 8 |
| 6. Idukki | 137 | 153 | 187 | 85 |
| 7. Emakulam | 232 | 287 | 206 | 37 |
| 8. Thrissur | 332 | 356 | 299 | 177 |
| 9. Pelakkad | 422 | 421 | 370 | 256 |
| 10. Melappuram | 206 | 285 | 240 | 140 |
| 11. Kozhikode | 133 | 154 | 116 | 51 |
| 12. Wayened | 24 | 32 | 69 | 28 |
| 13. Kannur | 64 | 63 | 68 | 15 |
| 14. Kasargod | 200 | 114 | 77 | 38 |
| Total | 2820 | 3133 | 2698 | 1242 |

Source :-Directorate Scheduled Caste Development Department

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Appendix - 10.5

NO. OF HOUSES CONSTRUCTED BY SCHEDULED TRIBE DEVELOPEMT DEPARTMENT

| District | 1992-93 | 1993-94 | 1994-95 | 1995-96 |
|---------------------|------------|------------|------------|------------|
| 1 | 2 | 3 | 4 | 5 |
| 1. Thiruvanthapuram | 11 | 37 | 46 | 11 |
| 2. Kollam | 5 | 11 | 18 | 20 |
| 3. Alappuzha | 8 | 8 | 12 | 3 |
| 4. Pathenamthitta | 14 | 1 | 26 | 15 |
| 5. Kottayam | 28 | 18 | 42 | 8 |
| 6. Idukky | 27 | 105 | 139 | 19 |
| 7. Ernakulam | 2 | 11 | 24 | 5 |
| 8. Trissur | 8 | 16 | 4 | 0 |
| 9. Pelekkaad | 41 | 130 | 28 | 17 |
| 10. Melappurem | 0 | 37 | 67 | 0 |
| 11. Kozhikode | 5 | 15 | 13 | 0 |
| 12. Wayenad | 346 | 390 | 349 | 270 |
| 13. Kannur | 36 | 82 | 5 | 28 |
| 14. Kasargod | 95 | 19 | 73 | 49 |
| TOTAL | 626 | 880 | 846 | 443 |

Source : - Directorate of Scheduled Tribe Development Department

Appendix- 10.6

DISTRICT-WISE DETAILS OF INSTITUTIONS UNDER THE SCHEDULED CASTE DEVELOPMENT DEPARTMENT AS ON 31-12-1996.

| District | Balewadies/ feeding centre | Boy's Hostals* | Girls' Hostals* | School if any | Other Institutiona ITC PETC | |
|---------------------|-------------------------------|-------------------|--------------------|------------------|-----------------------------------|----------|
| 1 | 2 | 3 | 4 | 5 | 6 | |
| 1. Thiruvanthapuram | 8 | 8 | 8 | .. | 9 | 1 |
| 2. Kollem | 3 | 8 | 6 | .. | 3 | |
| 3. Alappuzha | 3 | .. | 4 | .. | 2 | |
| 4. Pathanamthitta | 6 | 2 | 4 | .. | 2 | |
| 5. Kottayam | 2 | 2 | 4 | .. | 4 | |
| 6. Idukky | 1 | 2 | 3 | .. | .. | |
| 7. Ernakulam | 15 | 3 | 4 | .. | 1 | 1 |
| 8. Trissur | 4 | 5 | 5 | .. | 8 | |
| 9. Pelekkad | 1 | 14 | 7 | .. | 3 | |
| 10. Melappurem | .. | 9 | 5 | .. | 4 | |
| 11. Kozhikode | 3 | 7 | 6 | .. | 2 | 1 |
| 12. Wayanad | .. | 1 | 1 | .. | .. | |
| 13. Kannur | 2 | 7 | 3 | .. | 1 | |
| 14. Kesargod | 2 | 6 | 2 | .. | 2 | |
| TOTAL | 50 | 74 | 62 | .. | 41 | 3 |

* Hostels include pre-matric hostals, sports hostals, subsidised (Pvt) hostals and post matric hostals.

ITC - Industrial Training Centre,

PETC - Pre-Examination Training Centras.

Source : - Directorate of Scheduled Caste Devt.

Appendix- 10.7

**DIST- WISE DETAILS OF INSTITUTIONS UNDER THE SCHEDULED TRIBE DEVELOPMENT
DEPARTMENT 31.12.1996**

| District | Balawady feeding Centres | Boys Hostels | Girls Hostels | School (if any) | Other Institutions |
|---------------------|--------------------------------|-----------------|------------------|--------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. Thiruvanthapuram | 7 | 2 | 1 | 1 | 9 |
| 2. Kollam | 2 | 2 | 2 | 0 | 4 |
| 3. Alappuzha | 0 | 0 | 2 | 0 | 0 |
| 4. Pethanamthitta | 1 | 2 | 1 | 0 | 4 |
| 5. Kottayam | 4 | 1 | 2 | 0 | 4 |
| 6. Idukky | 8 | 13 | 7 | 0 | 9 |
| 7. Ernakulam | 0 | 0 | 0 | 0 | 0 |
| 8. Trissur | 2 | 2 | 1 | 0 | 0 |
| 9. Palakkad | 6 | 14 | 3 | 0 | 6 |
| 10. Malappuram | 3 | 8 | 3 | 1 | 3 |
| 11. Kozhikode | 2 | 3 | 1 | 0 | 0 |
| 12. Weyanad | 17 | 25 | 8 | 2 | 13 |
| 13. Kannur | 2 | 9 | 2 | 0 | 4 |
| 14. Kesargod | 4 | 2 | 0 | 0 | 1 |
| TOTAL- | 58 | 83 | 33 | 4 | 57* |

* 27 Tailoring centre, 20 dispensaries, 1 Hospital, 5 mid-wifery centres, 2 mobile medical unit, and 2 mobile emp. exchange

Source : - Directorate of Scheduled Tribe Development Department

Appendix - 11.1

State - wise Financial Assistance Disbursed by All India Financial Institutions During 1994-95

(Rs. in Crores)

| Sl. No. | STATES | IDBI | | % to IFCI | | % to ICICI | | % to UTI | | % to GIC | | % to LIC | | % to NABARD | | % to NCDC | | % to Grand Total | |
|--------------------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|------------------|---------------|
| | | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total | Total | % to Total |
| 1. | Andhra Pradesh | 944.9 | 9.01 | 276.5 | 9.74 | 295.8 | 4.30 | 3.7 | 0.09 | 2.6 | 0.95 | 13.0 | 1.26 | 361.4 | 12.00 | 16.9 | 4.38 | 1914.8 | 6.56 |
| 2. | Assam | 26.6 | 0.25 | 8.5 | 0.30 | 17.9 | 0.26 | 13.2 | 0.31 | 1.4 | 0.51 | 3.0 | 0.29 | 31.6 | 1.05 | 0.1 | 0.03 | 102.3 | 0.35 |
| 3. | Bihar | 76.2 | 0.73 | 21.3 | 0.75 | 86.2 | 1.25 | 20.0 | 0.47 | - | - | 15.0 | 1.45 | 82.3 | 2.73 | 14.8 | 3.80 | 315.8 | 1.08 |
| 4. | Gujarat | 1630.5 | 15.54 | 440.1 | 15.50 | 1168.5 | 16.99 | 133.9 | 3.11 | 11.4 | 4.16 | 225.0 | 21.80 | 185.2 | 6.15 | 5.8 | 1.50 | 3800.4 | 13.01 |
| 5. | Haryana | 194.0 | 1.85 | 61.1 | 2.15 | 149.6 | 2.18 | - | - | 0.5 | 0.18 | - | - | 148.6 | 4.94 | 7.8 | 2.02 | 561.6 | 1.92 |
| 8. | Karnataka | 583.1 | 5.58 | 92.1 | 3.24 | 497.8 | 7.24 | 29.1 | 0.88 | 4.2 | 1.53 | 27.0 | 2.62 | 236.8 | 7.87 | 9.6 | 2.49 | 1479.7 | 5.07 |
| 7. | Kerala | 87.4 | 0.83 | 12.8 | 0.45 | 32.4 | 0.47 | 1.5 | 0.04 | 4.0 | 1.46 | 4.0 | 0.39 | 126.1 | 4.19 | 38.1 | 9.86 | 306.3 | 1.05 |
| 8. | Madhya Pradesh | 632.2 | 6.03 | 165.5 | 5.83 | 346.7 | 5.04 | 10.1 | 0.24 | 14.9 | 5.43 | 30.0 | 2.91 | 157.2 | 5.22 | 20.3 | 6.26 | 1376.9 | 4.71 |
| 9. | Maharashtra | 2447.4 | 23.33 | 577.8 | 20.35 | 1818.0 | 26.43 | 925.8 | 21.53 | 117.4 | 42.78 | 233.0 | 22.58 | 363.7 | 12.08 | 146.0 | 37.80 | 6629.1 | 22.89 |
| 10. | Orissa | 143.2 | 1.37 | 51.3 | 1.81 | 51.0 | 0.74 | 14.3 | 0.33 | 1.2 | 0.43 | 19.0 | 1.84 | 80.4 | 2.67 | 10.7 | 2.77 | 371.1 | 1.27 |
| 11. | Punjab | 197.4 | 1.88 | 134.1 | 4.72 | 203.4 | 2.96 | 5.3 | 0.12 | 3.0 | 1.09 | 14.0 | 1.36 | 177.3 | 5.89 | 6.2 | 1.60 | 740.7 | 2.54 |
| 12. | Rajasthan | 540.0 | 5.15 | 123.3 | 4.34 | 506.5 | 7.38 | - | - | 12.5 | 4.56 | 13.0 | 1.28 | 157.1 | 5.22 | 19.9 | 5.15 | 1372.3 | 4.70 |
| 13. | Tamil Nadu | 929.1 | 8.86 | 278.0 | 9.79 | 676.3 | 9.83 | 27.8 | 0.65 | 8.8 | 3.21 | 24.0 | 2.33 | 258.2 | 8.58 | 31.4 | 8.13 | 2233.6 | 7.85 |
| 14. | Uttar Pradesh | 756.3 | 7.21 | 382.8 | 13.49 | 428.0 | 6.22 | 111.3 | 2.59 | 14.6 | 5.32 | 76.0 | 7.36 | 470.8 | 15.64 | 21.6 | 5.59 | 2261.4 | 7.74 |
| 15. | West Bengal | 415.9 | 3.96 | 49.8 | 1.75 | 163.8 | 2.38 | 7.4 | 0.17 | 5.5 | 2.00 | 18.0 | 1.74 | 109.6 | 3.64 | 12.6 | 3.26 | 782.4 | 2.68 |
| Total | | 9604.2 | 91.54 | 267.50 | 94.23 | 6441.7 | 93.85 | 1303.4 | 30.31 | 20.20 | 73.62 | 714.0 | 69.19 | 2946.3 | 97.88 | 361.8 | 93.66 | 24248.4 | 63.01 |
| Total - All India | | 10491.5 | 100.00 | 2838.7 | 100.00 | 6879.3 | 100.00 | 4299.8 | 100.00 | 274.4 | 100.00 | 1032.0 | 100.00 | 3010.7 | 100.00 | 386.3 | 100.00 | 29212.7 | 100.00 |

Sources : 1. IDBI - Report on Development Banking in India (1994-95)

2. NCDC - National Cooperative Development Corporation

3. NABARD - National Bank for Agriculture and Rural Development - (Annual Report 1994-95)

Appendix - 11.2

State - wise Financial Assistance Disbursed by All India Financial Institutions As at the end March 1995

(Rs. in Crores)

| Sl. No. | STATES | IDBI | | % to IFCI | | % to ICICI | | % to UTI | | % to LIC | | % to NABARD | | % to NCDC | | Grand Total | |
|-------------------|----------------|---------|---------|-----------|---------|------------|---------|----------|---------|----------|---------|-------------|---------|-----------|---------|-------------|---------|
| | | Total | % Total | Total | % Total | Total | % Total | Total | % Total | Total | % Total | Total | % Total | Total | % Total | Total | % Total |
| 1. | Andhra Pradesh | 5497.8 | 8.88 | 1325.3 | 8.61 | 1749.7 | 5.72 | 402.5 | 1.82 | 521.0 | 7.67 | 2707.9 | 11.08 | 193.1 | 5.96 | 12397.3 | 7.54 |
| 2. | Assam | 444.9 | 0.72 | 115.5 | 0.75 | 130.5 | 0.43 | 35.2 | 0.16 | 29.0 | 0.43 | 300.8 | 1.23 | 72.8 | 2.25 | 1128.7 | 0.89 |
| 3. | Bihar | 1130.1 | 1.83 | 180.0 | 1.17 | 725.0 | 2.37 | 184.5 | 0.75 | 325.0 | 4.78 | 1187.8 | 4.77 | 83.8 | 2.59 | 3778.2 | 2.30 |
| 4. | Gujarat | 8217.8 | 13.28 | 1989.6 | 12.93 | 4855.0 | 15.87 | 1465.3 | 6.73 | 1076.0 | 15.84 | 1282.0 | 5.24 | 81.1 | 2.50 | 18986.6 | 11.64 |
| 5. | Haryana | 1654.7 | 2.67 | 513.4 | 3.34 | 707.1 | 2.31 | 76.8 | 0.35 | 32.0 | 0.47 | 1310.0 | 5.35 | 63.2 | 1.95 | 4357.2 | 2.65 |
| 8. | Karnataka | 3918.2 | 8.33 | 747.3 | 4.86 | 1927.3 | 6.30 | 380.4 | 1.72 | 281.0 | 4.14 | 1919.5 | 7.84 | 214.7 | 6.62 | 9386.4 | 5.71 |
| 7. | Kerala | 1440.8 | 2.33 | 188.9 | 1.23 | 284.5 | 0.93 | 26.3 | 0.12 | 45.0 | 0.66 | 981.2 | 4.01 | 183.1 | 5.85 | 3149.8 | 1.92 |
| 8. | Madhya Pradesh | 3663.1 | 5.92 | 1065.8 | 6.93 | 1540.0 | 5.03 | 345.3 | 1.56 | 213.0 | 3.14 | 1635.7 | 6.68 | 314.8 | 9.71 | 8777.7 | 5.34 |
| 9. | Maharashtra | 11209.5 | 18.11 | 2601.3 | 16.91 | 8689.1 | 28.40 | 5836.4 | 26.43 | 1711.0 | 25.18 | 2637.1 | 10.77 | 616.2 | 19.01 | 33300.6 | 20.25 |
| 10. | Orissa | 1836.4 | 2.97 | 362.8 | 2.36 | 467.6 | 1.53 | 86.5 | 0.39 | 125.0 | 1.84 | 706.6 | 2.89 | 98.4 | 3.04 | 3683.3 | 2.24 |
| 11. | Punjab | 1672.5 | 2.70 | 919.0 | 5.97 | 665.4 | 2.18 | 107.4 | 0.49 | 88.0 | 1.30 | 1760.1 | 7.19 | 176.8 | 5.45 | 5389.2 | 3.28 |
| 12. | Rajasthan | 3054.7 | 4.94 | 907.5 | 5.90 | 1511.7 | 4.94 | 163.6 | 0.74 | 162.0 | 2.38 | 1218.7 | 4.98 | 239.7 | 7.40 | 7257.9 | 4.41 |
| 13. | Tamil Nadu | 6044.3 | 9.80 | 1182.3 | 7.68 | 3071.4 | 10.04 | 523.8 | 2.37 | 489.0 | 7.20 | 1672.1 | 6.83 | 262.7 | 8.10 | 13245.6 | 8.05 |
| 14. | Uttar Pradesh | 5372.6 | 8.68 | 1890.9 | 12.29 | 1905.6 | 6.23 | 744.0 | 3.37 | 308.0 | 4.53 | 3877.6 | 15.84 | 379.9 | 11.72 | 14478.6 | 8.80 |
| 15. | West Bengal | 2765.6 | 4.47 | 600.80 | 3.91 | 1141.9 | 3.73 | 406.6 | 1.84 | 432.0 | 6.36 | 891.6 | 3.64 | 110.3 | 3.40 | 6348.8 | 3.86 |
| Total | | 57920.8 | 93.57 | 14590.4 | 94.82 | 29371.8 | 96.00 | 10784.6 | 48.83 | 5837.0 | 85.90 | 24068.7 | 98.33 | 3090.6 | 95.35 | 145663.9 | 88.56 |
| Total - All India | | 61898.1 | 100.00 | 15387.1 | 100.00 | 30594.7 | 100.00 | 22085.9 | 100.00 | 6795.0 | 100.00 | 24476.7 | 100.00 | 3241.4 | 100.00 | 164480.9 | 100.00 |

Sources : 1. IDBI - Report on Development Banking in India (1994-95)

2. NABARD (Annual Report 1994-95)

Appendix - 11.3

State - wise Per Capita Assistance Disbursed by All India Financial Institutions During 1992-93 to 1994-95

(Rupees)

| Sl. No. | STATES | IDBI | | IFCI | | ICICI | | LIC | | UTI | | GIC | | Total | | | | | | | | |
|---------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|------|------|-------|-------|-------|
| | | 1992-93 | 1993-94 | 1994-95 | 1992-93 | 1993-94 | 1994-95 | 1992-93 | 1993-94 | 1994-95 | 1992-93 | 1993-94 | 1994-95 | 1992-93 | 1993-94 | 1994-95 | | | | | | |
| 1. | Andhra Pradesh | 89.3 | 7.1 | 133.6 | 18.8 | 13.8 | 39.1 | 23.0 | 38.8 | 41.8 | 1.4 | 1.3 | 1.8 | 5.1 | 5.9 | 0.5 | 1.5 | 6.7 | 0.4 | 167.9 | 137.6 | 231.8 |
| 2. | Assam | 21.7 | 6.7 | 10.9 | 6.0 | 7.6 | 3.5 | 5.0 | 12.9 | 7.3 | 0.4 | 1.7 | 1.2 | 1.3 | 2.7 | 5.4 | - | 0.6 | 0.6 | 35.4 | 32.2 | 31.7 |
| 3. | Bihar | 25.0 | 6.8 | 8.1 | 2.4 | 1.9 | 2.3 | 14.0 | 12.1 | 9.2 | 4.0 | 0.8 | 1.6 | 0.3 | - | 2.1 | 0.3 | - | - | 45.7 | 21.6 | 25.3 |
| 4. | Gujarat | 251.7 | 217.8 | 373.8 | 44.8 | 81.7 | 100.9 | 131.6 | 168.3 | 267.9 | 25.7 | 16.5 | 51.6 | 93.4 | 54.8 | 30.7 | 7.0 | 8.5 | 2.6 | 485.1 | 545.4 | 876.6 |
| 5. | Haryana | 80.0 | 96.6 | 110.4 | 42.1 | 34.4 | 34.8 | 35.9 | 56.8 | 85.1 | 3.9 | 1.7 | - | 0.3 | 3.1 | - | 0.6 | 3.6 | 0.3 | 163.0 | 198.2 | 248.3 |
| 6. | Karnataka | 74.0 | 101.3 | 121.8 | 17.0 | 29.8 | 19.2 | 32.2 | 48.4 | 104.0 | 4.7 | 8.5 | 5.6 | 5.6 | 7.8 | 6.1 | 2.2 | 5.3 | 0.9 | 145.1 | 201.1 | 275.3 |
| 7. | Kerala | 37.9 | 50.1 | 28.5 | 2.5 | 11.4 | 4.2 | 13.9 | 12.2 | 10.5 | 1.1 | - | 1.3 | 0.7 | - | 0.5 | 0.2 | - | 1.3 | 56.3 | 73.7 | 48.9 |
| 8. | Madhya Pradesh | 52.5 | 84.3 | 88.9 | 26.2 | 31.1 | 23.3 | 29.8 | 36.8 | 48.7 | 5.5 | 3.0 | 4.2 | 2.2 | 1.4 | 1.4 | 0.2 | 0.8 | 2.1 | 115.9 | 157.4 | 181.4 |
| 9. | Maharashtra | 140.0 | 232.8 | 292.7 | 33.1 | 44.7 | 69.1 | 128.4 | 142.2 | 217.4 | 34.5 | 23.1 | 27.9 | 126.9 | 129.7 | 110.7 | 36.1 | 28.3 | 14.0 | 565.3 | 598.8 | 777.0 |
| 10. | Orissa | 44.4 | 103.8 | 92.4 | 12.3 | 5.2 | 15.2 | 12.5 | 20.2 | 15.1 | 6.5 | 4.5 | 5.6 | 0.7 | 2.4 | 4.2 | 2.5 | 0.4 | 0.4 | 78.9 | 136.5 | 88.9 |
| 11. | Punjab | 49.0 | 76.3 | 93.2 | 59.9 | 59.2 | 63.3 | 18.0 | 41.5 | 96.0 | 9.5 | 2.9 | 6.6 | 5.1 | 1.6 | 2.5 | 4.0 | 1.0 | 1.4 | 146.2 | 182.5 | 276.0 |
| 12. | Rajasthan | 109.8 | 95.7 | 111.2 | 38.4 | 33.1 | 25.4 | 37.8 | 48.9 | 104.3 | 4.5 | 4.0 | 2.7 | 2.7 | 1.5 | - | 1.4 | 0.3 | 2.6 | 192.6 | 183.5 | 272.4 |
| 13. | Tamil Nadu | 96.7 | 125.5 | 158.5 | 21.8 | 17.4 | 47.4 | 54.0 | 78.4 | 115.4 | 8.0 | 3.3 | 4.1 | 3.8 | 5.1 | 4.7 | 3.5 | 2.2 | 1.5 | 196.7 | 231.9 | 349.4 |
| 14. | Uttar Pradesh | 29.8 | 34.4 | 50.2 | 12.9 | 9.0 | 25.4 | 9.3 | 19.5 | 28.4 | 1.3 | 1.8 | 5.0 | 8.3 | 1.1 | 7.4 | 0.4 | 0.3 | 1.0 | 55.0 | 65.9 | 127.2 |
| 15. | West Bengal | 32.1 | 39.8 | 57.4 | 5.7 | 29.9 | 6.9 | 18.8 | 31.0 | 22.6 | 8.7 | 6.9 | 2.5 | 3.3 | 1.2 | 1.0 | 4.9 | 3.0 | 0.8 | 73.2 | 111.8 | 97.0 |
| | All India | 72.3 | 87.0 | 115.8 | 19.8 | 24.2 | 31.3 | 37.8 | 49.4 | 75.8 | 10.8 | 6.2 | 11.4 | 63.5 | 81.4 | 47.4 | 5.1 | 4.3 | 3.0 | 197.7 | 232.5 | 305.8 |

Sources :IDBI - Report on Development Banking in India, 1993-94 & 1994-95

Appendix - 11.4
State-wise Distribution of Commercial Bank Branches And Population Per Bank Office

| Sl.No. | States | No. of Banks as at the end of | | | % to total number of offices | | | Average population per bank branch (In thousand) at the end of | | |
|--------|-------------------|-------------------------------|------------|------------|------------------------------|------------|------------|----------------------------------------------------------------|------------|------------|
| | | June 1969 | March 1994 | March 1995 | June 1969 | March 1994 | March 1995 | June 1969 | March 1994 | March 1995 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1. | Andhra Pradesh | 567 | 4749 | 4784 | 6.9 | 7.7 | 7.7 | 75 | 11 | 14 |
| 2. | Assam | 74 | 1226 | 1225 | 0.9 | 2.0 | 2.0 | 198 | 16 | 18 |
| 3. | Bihar | 273 | 4910 | 4911 | 3.3 | 7.9 | 7.9 | 207 | 14 | 18 |
| 4. | Gujarat | 752 | 3460 | 3470 | 9.1 | 5.6 | 5.6 | 34 | 10 | 12 |
| 5. | Haryana | 172 | 1312 | 1335 | 2.1 | 2.1 | 2.2 | 97 | 10 | 12 |
| 6. | Karnataka | 756 | 4364 | 4381 | 9.2 | 7.1 | 7.1 | 38 | 9 | 10 |
| 7. | Kerala | 601 | 2948 | 3009 | 7.3 | 4.8 | 4.9 | 35 | 9 | 10 |
| 8. | Madhyapradesh | 343 | 4439 | 4423 | 4.2 | 7.1 | 7.1 | 116 | 12 | 15 |
| 9. | Maharashtra | 1118 | 5724 | 5745 | 13.5 | 9.3 | 9.3 | 44 | 11 | 14 |
| 10. | Orissa | 100 | 2144 | 2142 | 1.2 | 3.5 | 3.5 | 212 | 12 | 15 |
| 11. | Punjab | 346 | 2206 | 2236 | 4.2 | 3.6 | 3.6 | 42 | 8 | 9 |
| 12. | Rajasthan | 364 | 3138 | 3156 | 4.4 | 5.1 | 5.1 | 70 | 11 | 14 |
| 13. | Tamil Nadu | 1060 | 4438 | 4465 | 12.8 | 7.2 | 7.2 | 37 | 11 | 13 |
| 14. | Uttar Pradesh | 747 | 8608 | 8620 | 9.0 | 13.9 | 13.9 | 119 | 13 | 16 |
| 15. | West Bengal | 504 | 4265 | 4262 | 6.1 | 6.9 | 6.9 | 87 | 13 | 16 |
| | Total | 7777 | 57931 | 58164 | 94.1 | 93.7 | 93.7 | - | - | - |
| | Total - All India | 8262 | 61852 | 62100 | 100.00 | 100.00 | - | 65 | 11 | 14 |

Source : Report on Currency and Finance 1994-95, Vol II

Appendix - 11.5
BANKING STATISTICS OF KERALA (1988-96)

(Rs. Crores)

| Ending March | State Bank Group | | | | Other Nationalised Banks | | | | Gramin Banks | | | |
|--------------------|---------------------------|--------------------------|-------------------|--------------|--------------------------|--------------------------|-------------------|--------------|--------------------|---------------------------|--------------------|---------------|
| | Total Deposit (2) | Of which NRE Deposit (3) | Total Advance (4) | CD Ratio (5) | Total Deposit (6) | Of which NRE Deposit (7) | Total Advance (8) | CD Ratio (9) | Total Deposit (10) | Of which NRE Deposit (11) | Total Advance (12) | CD Ratio (13) |
| 1988 | 1737.73 | 572.72 | 1141.47 | 65.69 | 1956.24 | 585.76 | 1170.69 | 59.84 | 57.38 | Nil | 124.57 | 217.10 |
| 1989 | 2032.18 | 666.94 | 1346.26 | 66.25 | 2315.32 | 670.49 | 1482.66 | 63.95 | 71.20 | Nil | 148.67 | 208.08 |
| 1990 | 2406.71 | 800.30 | 1551.12 | 64.44 | 2718.06 | 832.34 | 1595.29 | 58.69 | 87.74 | Nil | 179.83 | 204.98 |
| 1991 | 2854.66 | 949.58 | 1797.91 | 63.00 | 3205.41 | 997.48 | 1749.20 | 54.61 | 109.78 | Nil | 195.81 | 178.40 |
| 1992 | 3410.27 | 1196.69 | 1850.95 | 54.28 | 3865.81 | 1262.86 | 1830.93 | 47.36 | 142.30 | Nil | 213.37 | 149.90 |
| 1993 | 4285.29 | 1779.54 | 2146.10 | 50.08 | 4743.08 | 1815.06 | 2064.89 | 43.53 | 171.56 | Nil | 232.16 | 135.32 |
| 1994 | 5312.22 | 2369.60 | 2404.91 | 45.27 | 5753.17 | 2418.40 | 2126.10 | 36.96 | 211.59 | Nil | 282.75 | 124.23 |
| 1995 | 8154.52 | 2696.96 | 2934.99 | 47.69 | 6516.30 | 2806.37 | 2387.69 | 36.64 | 260.70 | Nil | 313.90 | 120.41 |
| 1996 | 6935.66 | 3059.13 | 3135.42 | 45.21 | 7261.92 | 3140.39 | 2890.17 | 39.80 | 263.39 | Nil | 351.71 | 133.53 |
| 1996 (Sept) | 7054.85 | 3287.52 | 3158.85 | 44.78 | 7600.39 | 3555.86 | 2861.42 | 37.65 | 297.12 | Nil | 391.98 | 131.93 |
| Grand Total | | | | | | | | | | | | |
| Ending March | Total Public Sector Banks | | | | Other Private Banks | | | | Grand Total | | | |
| | Total Deposit (2) | Of which NRE Deposit (3) | Total Advance (4) | CD Ratio (5) | Total Deposit (6) | Of which NRE Deposit (7) | Total Advance (8) | CD Ratio (9) | Total Deposit (10) | Of which NRE Deposit (11) | Total Advance (12) | CD Ratio (13) |
| 1988 | 3751.35 | 1158.48 | 2436.73 | 64.98 | 1059.96 | 210.76 | 679.32 | 64.09 | 4811.32 | 1369.24 | 3116.05 | 64.77 |
| 1989 | 4421.70 | 1337.43 | 2977.59 | 67.34 | 1245.05 | 246.32 | 723.56 | 58.11 | 5666.75 | 1583.75 | 3701.15 | 65.31 |
| 1990 | 5212.50 | 1832.64 | 3326.24 | 63.81 | 1407.58 | 286.09 | 791.92 | 56.62 | 6620.08 | 2012.21 | 4118.18 | 62.20 |
| 1991 | 8169.85 | 1947.06 | 3742.92 | 60.68 | 1887.81 | 357.29 | 895.27 | 53.00 | 7857.67 | 2304.35 | 4638.19 | 59.00 |
| 1992 | 7418.38 | 2459.55 | 3895.25 | 52.51 | 2252.55 | 579.33 | 1107.71 | 49.18 | 9670.93 | 3038.88 | 5002.96 | 51.73 |
| 1993 | 9199.93 | 3594.60 | 4443.15 | 48.30 | 2912.31 | 904.31 | 1374.84 | 47.21 | 12112.24 | 4498.91 | 5817.99 | 48.03 |
| 1994 | 11278.90 | 4788.00 | 4793.78 | 42.51 | 3664.17 | 1226.63 | 1647.79 | 44.97 | 14941.06 | 8014.63 | 6441.54 | 43.11 |
| 1995 | 12931.52 | 5503.33 | 5636.58 | 43.59 | 4528.39 | 1382.71 | 2159.94 | 47.72 | 17457.91 | 6886.05 | 7796.52 | 44.66 |
| 1996 | 14410.49 | 8199.52 | 6377.3 | 44.10 | 5710.33 | 1903.88 | 2583.81 | 45.24 | 20171.30 | 8103.40 | 8960.91 | 44.42 |
| 1996 (Sept) | 14952.38 | 6843.38 | 6412.25 | 42.89 | 5881.30 | 2117.60 | 2805.82 | 49.39 | 20633.66 | 8980.98 | 9218.07 | 44.68 |

Source : SLBC, Banking Statistics of Kerala