

ECONOMIC REVIEW
1994

STATE PLANNING BOARD
THIRUVANANTHAPURAM

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CHAPTER 1

GENERAL REVIEW

NATIONAL ECONOMY

During the year 1994, the national economic scenario presented a mixed picture. While on the one hand, the country witnessed rising industrial and agricultural output, growing accumulation of foreign exchange reserves, and increasing foreign direct investment, on the other, continued and persistent inflationary pressures have been causing difficulties in maintaining price stability, specially of essential commodities. Agricultural Production is expected to touch a record of 185 million tonnes, thanks to a favourable monsoon and comfortable reservoir position. On the industrial front, the year witnessed a remarkable turn-around with industrial production expected to record seven to eight per cent growth. Foreign exchange reserves touched a record level of 20 billion U.S. dollars (equivalent to about Rupees Sixty two thousand crores). This was mainly on account of a significant improvement in the current account of the balance of payments position and a sharp increase in the quantum of foreign investment flows. Since the formulation of the new industrial policy, direct foreign investment approvals amounted to nearly Rupees twenty thousand crores. These positive factors have helped to accelerate the momentum of the country's economic growth. The growth rate of the economy is anticipated at 5.5 per cent during 1994-95 as compared with 3.8 per cent achieved during the previous year.

12. A disturbing feature of the economy during the last year was the continued upward inflationary trends. Inflation peaked to 11.5 per cent in April 1994, but came down to 8.7 per cent in September 1994. However, by the end of December 1994, it again touched double digit crossing 10 per cent. This rising inflationary trend is attributed to a sharp rise in international prices of primary commodities and basic metals

such as steel, non-ferrous metals and petrochemicals. The country had also to resort to bulk imports of essential commodities like sugar and edible oils, prices of which had spurted in the international market.

1.3. On the external trade front, the performance was not very satisfactory. Exports could register a growth of only 13.9 per cent during April-October 1994 as compared with a growth rate of 20.2 per cent in the corresponding period of the previous year. At the same time imports increased by 18 per cent as against only 0.3 per cent during the same period last year. A major reason for the fall in the export growth rate was the marginal impact of the plague scare with foreign importers refusing to lift Indian export cargoes. However, it is expected that with normalisation of the situation, exports would pick up in the last quarter of the financial year.

1.4. India's debt liability is expected to cross the Rs.5 lakh crore mark by March 1995. Interest payments alone would constitute 32 per cent of the Government's total receipts. This is a cause for concern, despite the fact that a good part of the liability is long term credit.

1.5. A redeeming feature of the economic situation during 1994 was the impressive turn-around in industrial growth after three years of persistent recessionary trends. During the first half of the current financial year, index of industrial production was up by 7.5 per cent - the highest growth recorded since the announcement of the new industrial policy in 1991. If these healthy trends are sustained, it is estimated that India's industrial production is set to be doubled compared to last year.

1.6. The year 1994 witnessed a bold step taken by the Government of India to limit its net

borrowing in order to adhere to the targeted fiscal deficit of six per cent of GDP in 1994-95. The Central Government also signed an agreement with the Reserve Bank of India to limit its net borrowings from the RBI through adhoc treasury bills to Rs.6000 crores during 1994-95 and instituting a mechanism to ensure that the limit was not exceeded by more than Rs.3000 crores. Though the Government's expenditures have tended to increase in recent months, it is still hoped that the fiscal deficit may be contained at 6 per cent of the GDP, thanks mainly to the good buoyancy witnessed in centre's revenue collections - both tax and non - tax revenues. This is expected to off-set the growth in non-plan expenditure.

1.7. As far as the overall impact of the economic reforms is concerned, in many areas specially those relating to trade, industry and fiscal affairs, the year 1994, as already mentioned, witnessed notable achievements. It must, however, be mentioned in this context that reform process is generally a double edged weapon. It has areas that spell benefits both in the short and long run. There are others which result in painful consequences specially when reforms like structural adjustment of the economy are pushed through with swiftness. Such reforms, left to themselves, are not expected to have much of sensitivity to displacement of labour, which would be contrary to country's development goal of poverty reduction through generation of employment. The decision of the Central Government to substantially enhance the allocation for rural development activities gain considerable significance in this context and it is a step in the right direction. However, the nation has to successfully address itself to the daunting task of protecting the interest of the vast mass of people living below or around the poverty line in terms of employment and reasonable degree of price stability specially in respect of essential items of mass consumption. This should constitute a major thrust in the country's future agenda.

KERALA ECONOMY

1.8. The year that has passed by has been a relatively normal year, with adequate rain-

fall both in its quantum as well as spread, with agriculture and industrial production picking up reasonably well, state income showing close to expected levels of growth, inflation remaining under control all of which augur well for the economy of the State. The policy measures initiated by the Government, as reflected in the priorities accorded to various sectors of development and the thrust given for the development of infrastructure, should enable the sustenance of the growth process already set in motion. Investments in agriculture, irrigation, power and industry would continue to get high priority, while the effort in the social services sectors would be directed mainly for upgradation of standards of these services in terms of quality.

1.9. The reform process started on the industrial front has generated considerable interest among investors, even though the pace of implementation of some of the programmes in the industrial policy has been tardy. However, the prospects for tie up with agencies in and outside the country are brighter than in the previous year. Efforts to create infrastructural facilities for setting up industrial units have also gathered momentum. The Electronic technopark at Thiruvananthapuram is nearing completion, while the Kerala Industrial Infrastructure Development Corporation (KINFRA) has taken up implementation of a number of Projects for providing the required infrastructural facilities for industrial ventures.

1.10. Shortage of power has been a major problem faced by the State, being one of the reasons for the low level of industrial investment. For tackling this problem ambitious programmes are on the anvil, for setting up a number of thermal power projects with short gestation periods. The much talked about Kayamkulam thermal power project, which had a chequered record of execution, has come through a full circle and back to NTPC who have at last notified for its implementation. Work has also just commenced in the project.

1.11. The Kerala State Electricity Board has improved its performance considerably, when

generated a rate of return much above the preferred minimum of 3 per cent. In the transport sector, steps initiated by KSRTC for improving its financial position have started yielding results by bringing down the number of overaged buses, manibus ratio and reducing overall financial loss. An area which needs urgent attention is the development of inland navigation, considering the fact that roads and road transport sector have been rather over-stretched. The policy of the Government to go in for private participation in development and maintenance of roads in selected stretches is a welcome change.

1.12. The programmes of self reliant villages and untied funds to the Panchayats, considered as the initial steps towards decentralised planning, are being continued with higher budget allocations. These programmes provide the freedom to the local government institutions to formulate and implement local need based schemes that would suit the local conditions. Steps are being taken to streamline the process for transferring the functions and responsibilities to the local Government Institutions as envisaged in the 73rd amendment to the Constitution. The passing of the respective Acts by the State Legislature has set in motion the process of decentralisation. Elections to the local bodies are to be held soon and they would be followed by effective transfer of functions and responsibilities as stipulated in the Acts to enable them function as cohesive units of local self Governments.

1.13. The improvement in the State's financial position witnessed in the previous year was sustained during the year under review. A series of economy measures and steps for resource raising initiated by the State Government have helped in improving the overall financial position. For the first time after many years the approved plan outlay was utilised in full in 1993-94. However the continuing dimension of revenue deficits is a matter of serious concern. The revenue deficit as percentage of revenue expenditure in 1994-95 is likely to be as high as 16.5 per cent as against 10.6 per cent in the R.E. for 1993-94. Needless to say that unless revenue

deficits are eliminated and budgetary savings are generated, fiscal constraints will continue to inhibit the process of economic growth. Selected indicators of the State's economy are presented in Table 1.1.

State Income

1.14. The State Income in 1993-94 at constant prices is estimated at Rs.5940 crores as against Rs.5680 crores in 1992-93, indicating a growth rate of 4.6 per cent. In 1994-95 the State Income at constant prices is expected to be Rs.6253 crores giving a growth rate of 5.3 per cent. At current prices the State Income is expected to grow at 8 per cent to Rs.19586 crores in 1994-95 from Rs.18133 crores in 1993-94. The per capita income at constant prices is expected to be Rs.2044 in 1994-95, as against Rs.1968 in 1993-94, a growth rate of 3.9 per cent over 3.1 per cent achieved in 1993-94. The per capita income at current prices is likely to be Rs.6404 in 1994-95 as against Rs.6009 in 1993-94. Although the per capita income of the State lags behind the national average, the gap has been steadily declining.

1.15. The sectoral contribution of State Income shows that the tertiary sector continues to dominate, followed by the primary sector. While the sectoral contribution of tertiary sector has increased from 39.50 per cent to 39.84 per cent, the sectoral contribution of both primary sector and secondary sector has marginally declined.

Employment Situation

1.16. The alarming growth in unemployment continues to be a major socio-economic problem faced by the State. As on 31-5-1994 there were 40.2 lakh job seekers on the live registers of the employment exchanges in the State. Out of this, the educated job seekers with qualification S.S.L.C. and above were 26.6 lakhs which constituted 66 per cent of the total job seekers. Similarly the professional job seekers were 1.29 lakhs as at the end of May 1994.

Table 1.1.
Important Indicators of the State Economy

| Item | 1970-71 | 1980-81 | 1985-86 | 1988-89 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 |
|---|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|-----------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1. State Income at current prices (Rs.crores) | 1255 | 3823 | 6436 | 9182 | 10165 | 12173 | 15101(P) | 17010 (Q) | 18133 (A) | 19586 (F) |
| 2. State Income (1980-81) Prices (Rs.crores) | 1255** | 3823 | 4042 | 4584 | 4892 | 5262 | 5365 (P) | 5680 (Q) | 5940 (A) | 6253 (F) |
| 3. Per Capita Income (at current price) (Rs.) | 594 | 1508 | 2395 | 3251 | 3730 | 4200 | 5140 (P) | 5713 (Q) | 6009 (A) | 6404 (F) |
| 4. Output of important Commodities | | | | | | | | | | |
| a. Rice - lakh tonnes | 12.98 | 12.72 | 11.73 | 10.13 | 11.41 | 10.87 | 10.60 | 10.85 | 10.73 | — |
| b. Coconut - Million Nuts | 3981 | 3008 | 3377 | 4215 | 4358 | 4232 | 4641 | 5124 | 5586 | — |
| c. Arecanut - Million Nuts | 12738 | 10805 | 10664 | 11450 | 11964 | 13074 | 13116 | 13643 | 13579 | — |
| d. Pepper - 1000 tonnes | 25.03 | 28.52 | 33.12 | 43.24 | 54.14 | 46.80 | 50.31 | 49.67 | 50.37 | — |
| e. Rubber - 1000 tonnes | 78.73 | 140.33 | 184.70 | 238.41 | 275.40 | 307.52 | 343.11 | 368.65 | 408.31 | — |
| f. Tea - - do - | 41.45 | 50.72 | 52.63 | 65.77 | 57.08 | 63.42 | 66.80 | 55.14 | 60.69 | — |
| g. Coffee - do - | 12.57 | 36.48 | 23.55 | 47.43 | 23.80 | 35.70 | 30.96 | 25.00 | 38.00 | — |
| 5. Prices | | | | | | | | | | |
| a. Wholesale price index of Agricultural Commodities (Base 1952-53=100) | 222 | 551 | 688 | 957 | 906 | 1028 | 1263 | 1377 | 1550 | 1453* |
| b. Consumer price index number (Base 1970=100)@@ | 264 | 202 | 314 | 395 | 413 | 435 | 497 | 553 | 599 | 671 |
| 6. Plan Outlay (Rs. crores) (Accounts) | 59.35 | 311.31 | 411.95 | 543.13 | 620.28 | 662.70 | 719.53 | 825.32 | 1013 (A) | 1260 (BE) |

(P) Provisional (Q) Quick Estimate (A) Anticipated (F) Forecast.

(*) Nine months average for 1994

(@@) Relates to calendar years from 1980 onwards and eleven months average for 1994.

(**) At 1970-71 prices

1.7. Employment in the organised sector was 11.15 lakhs as on March 1993, consisting of 6.16 lakhs in the public sector and 5.39 lakhs in the private sector.

Rice situation

1.8 The wholesale price index for agricultural commodities in Kerala has shown a distinct fall by 127.6 points during 1994, from 1807 in 1993 to 1453.1 in 1994, a decline of 8% compared to an increase of over 12% in the previous year. The sharp fall was contributed by the fall in prices of spices and condiments, and oil seeds (coconut). The sharp fall in prices had a dampening effect on the farming community, especially when the prices of those commodities they had to buy had considerably gone up. The consumer price index increased by 1% in 1994 compared to an increase of 8.3% in the previous year. The effective functioning of the public distribution system in the state helped to a large extent in regulating the prices of essential commodities.

Agriculture

1.10 The favourable weather conditions combined with the efforts in several directions by the State Government helped the State to achieve high growth in income from agriculture. In fact for the first time during the last 15 years agriculture sector witnessed positive growth in income for three years in succession. This has been made possible by the substantial increase in the production of two perennial crops of coconut and rubber. Commercial crops in general with the exception of cashew recorded impressive improvement in production. Other than coconut and rubber, crops such as pepper, Ginger sesamum, coffee and cardamom have shown improved production results.

1.20 Coconut production which was hovering around 3500 to 4000 million nuts throughout the last decade has strongly recovered, thanks to the favourable monsoons during the last few years and the development initiatives

of the State Government during these years. The estimated production of 5586 million nuts during 1993-94 is the highest ever recorded in Kerala. This has largely been contributed by the higher levels of productivity of 6336 nuts per ha, a peak ever achieved. A fall out of the large increase in production, however has been the steep fall in price which had a dampening effect on the farming community. Even though the support price of Rs.2350 per quintal and the massive procurement operations through KERAFED could arrest further fall in prices of coconut, the measure could not salvage the situation as the prices continue to rule low, lower than even the prices prevailed two years ago.

1.21 Rice production during the year was marginally lower than that in the previous year, production declined from 10.85 lakh tonnes to 10.73 lakh tonnes in 1993-94. Productivity of rice however increased to 2022 kg. per ha. in 1993-94 from 2018 kg. per ha. in the previous year. The coverage of high yielding varieties was lower by 2678 ha. in 1993-94, the total coverage being 1.72 lakh ha. The productivity of high yielding varieties during 1993-94 declined to 2157 kg/ha. from 2280 kg. per ha. achieved in 1992-93. All these bring to light the imperative need for adoption of appropriate technology for sustaining and improving paddy production, like mechanisation, development and propagation of multi-resistant varieties and provision of irrigation facilities. Among the other food crops, production of both pulses and tapioca declined in 1993-94 over the levels in the previous year.

1.22. Among non-food crops, production of pepper increased from 49670 tonnes in 1992-93 to 50370 tonnes in 1993-94. Export of pepper at about 46650 tonnes in 1993-94 was almost double the quantity exported in 1992-93. Production of cashew continued to decline as in the previous year from 95620 tonnes in 1992-93 to 75580 tonnes in 1993-94. Plantation crops in general have shown better production results. Production of rubber increased by 10.8%, coffee by 52%, cardamom by 72.4%, and tea by 10.1%.

Livestock

1.23 The density of livestock population in Kerala is higher than the national level. The State account for 1.75% of the total cattle population in the country. Out of the total cattle population, 62% of the breedable dairy cattle is crossbred. Milk Production has increased from 18.89 lakh tonnes in 1992-93 to 20.01 lakh tonnes in 1993-94. The percapita milk consumption has gone up from 175 gms to 184 gms during the same period. Similarly egg production has increased from 1661 million in 1992-93 to 1844 million in 1993-94.

1.24 The Kerala Milk Marketing Federation, the implementing agency for operation flood III programme, operates 1709 Amul pattern of co-operative societies. The societies put together have a membership of 4.33 lakhs.

Fisheries

1.25 Fishery activities in the State are still concentrated on the exploitation of marine fisheries, that too in the inshore areas with very little development on deep sea fishing and inland sectors, the latter has a potential waterspread area of over 3.6 lakh ha. With a view to develop the inland fisheries in the State, a Kuwaiti Fund assisted fisheries project with a project outlay of Rs.75 crores has been launched during the previous year.

1.26 The total fish catch was 6.20 lakh tonnes in 1993, out of which marine sector contributed 5.75 lakh tonnes. This is much less than the yield achieved in the eighties. In order to revitalise the fisheries development in the State, the State Government has announced a Fisheries policy in 1994. The main thrust of the policy is to chart a course of action which will restore the vitality and dynamism of the sector.

Irrigation

1.27 The total investment in irrigation upto 1993-94 amounted to Rs.1462 crores. At

the same time the irrigation potential created is only 3.71 lakh ha (net), and 6.11 lakh ha (gross). Out of this the share of major and medium irrigation projects is Rs.1036 crores with an irrigation potential of 2.05 lakh ha (net) and 4.15 lakh ha (gross). Four major and medium projects were completed in 1993-94.

1.28 Area brought under irrigation through minor irrigation projects upto the end of 1993-94 was 1.66 lakh ha (net) and 2.06 lakh ha (gross).

1.29 Anti-sea erosion works were implemented in the State with Government of India meeting 50 per cent of the cost for the period upto the beginning of the Eighth Five Year Plan. From the Eighth Five Year Plan onwards the programme is being implemented as a State Sector Scheme. As a result the scale of activity had to be reduced considerably to contain within the budgetary resources available. The State has invested Rs.142.94 crores till the end of 1993-94 and about 336Km. of new sea wall and reformation work of 58km. of old sea wall was completed.

Command Area Development

1.30 There are 14 completed irrigation projects under the command area development programme with a cultivable command of 1,80,000 ha. During 1993-94 field channels were constructed to benefit 0.21 lakh hectares, introduction of warabandhi system in 0.13 lakh ha. and adaptive trials and demonstrations in 7689 ha.

Energy

1.31 The installed capacity marginally increased by 7.5MW in 1993-94. With this, the total installed capacity at the end of 1993-94 increased to 1484MW. The total energy generated during 1993-94 declined to 5822.25MW from 6192.73 MW in 1992-93 due to the fact that the monsoons during the year were relatively less favourable compared to the previous year. The quantum of power imported increased from

1248 MU in 1992-93 to 2036 MU in 1993-94. The total energy sold during the year stood at 6285 MU.

1.32 The cumulative investment in power development upto the end of 1993-94 amounted to Rs.1891 crores. The total income from sale of power amounted to Rs.540.65 crores in 1993-94 as against Rs.438.75 crores in 1992-93. The performance of KSEB has shown considerable improvement in 1993-94 when it generated a rate of return of 5.59% against the 3% minimum specified.

1.33 Shortage of power continues to be a serious bottleneck for the overall development of the State. During 1993-94 there existed a demand supply gap of 154MU. The initiatives taken by the State Government for implementation of new generation projects will have to be pursued to their logical conclusion of execution and commissioning as otherwise it will be the costliest delays for the State's economy.

Industry

1.34 The policy measures formulated and implemented by the State Government for industrial development, though not at the desired speed, has started showing results. The year 1993-94 and the subsequent period have witnessed reasonable progress in terms of the investment proposals received, infrastructure facilities created and the promotional activities undertaken. The real impact of these measures is expected to be felt in the next one or two years.

1.35 During 1993-94 against a target of 10500 new industrial units, 14533 new units were registered. The corresponding figure for the previous year was 11411 units. Out of the new units registered in 1993-94, 1230 were those promoted by Scheduled Caste/Scheduled Tribe entrepreneurs and 3742 were promoted by women entrepreneurs. Similarly 697 new joint stock companies were registered during 1993-94, taking the total number of joint stock companies to 5925 as at the end of that year. Total num-

ber of working factories has also been increased from 13946 in December 1992 to 14399 in December 1993. Number of workers employed in these units stood at 4.13 lakhs compared to 4.06 lakhs in the previous year.

1.36 Among 44 State Public Sector undertakings, 23 were working on profit in 1993-94 as against 18 in the previous year. The Kerala Industrial Development Corporation helped 42 new projects, with financial support, involving a total investment of Rs.138.47 crores. The Corporation has also signed MOU's with private investors for establishing 27 new projects with an estimated investment of Rs.533 crores. The Electronic Technopark at Thiruvananthapuram is nearing completion where 84 companies have already registered for starting new ventures with a total committed investment of Rs.222 crores.

1.37 The Kerala Industrial Infrastructure Development Corporation (KINFRA) registered in the previous year, have started implementing nine major projects aimed at the integrated industrial development of the State. The projects include an Export Promotion Industrial Park at Ernakulam, an Industrial Township in 750 acres of land at Kanjikode in Palakkad, an International Apparel Park near Thiruvananthapuram, an International Industrial Park at Cochi, Techno Industrial Park at Kozhikode, Industrial Parks at Malappuram, etc.

1.38 The Small Scale Industries Sector showed overall improvement in its performance during 1993-94. The total number of SSI units registered in the State stood at 110384 units as at the end of 1993-94, with an aggregate investment of Rs.1175 crores. These units together provided employment to 6.30 lakh persons. The traditional industries though beset with a variety of problems have shown adequate measure of resilience and have shown reasonable growth in output and income. Coir industry the major traditional industry provides direct employment to 3.83 lakh workers and exports nearly 30% of its products. In 1993-94 there were 858 coir co-operative societies in the State. Out of this about

33% of the societies are either dormant or under liquidation. In order to modernise the coir industry, an integrated Coir Development Project has been formulated with an estimated investment of Rs.44.24 crores, with financial support from NCDC. Export of coir and coir products stood at Rs.126.85 crores in 1993-94. The major problem facing the handloom sector is the accumulation of unsold stocks, which amounted to over Rs.24 crores as at the end of March 1994, as against similar stock for Rs.18 crores in the previous year. Shortage of rawnuts has been the problem facing the cashew industry. The internal production of cashew declined during 1993-94 from the levels achieved in the previous year. Export earnings through the export of cashewnuts and cashewnut shell liquid amounted to Rs.1044.34 crores in 1993-94. The monopoly procurement of cashewnut discontinued in 1993 was reintroduced in 1994.

1.39 The progress of sericulture development which offered tremendous potential has been below the expected levels. The absence of an effective organisational arrangement was one of the reasons for the slow progress in this area. In addition to the development efforts pursued at present for stabilising the area already covered under the programme, it is necessary that the programme coverage should be increased for creating employment in the rural areas.

1.40 The share of Central Sector investment in the State as on 31-3-1993 remained at the same level of 1.3% achieved in the previous year. Investment in absolute terms increased to Rs.2275 crores in 1993 from Rs.2000 crores in 1992. The five States of Maharashtra, Andhra Pradesh, Madhya Pradesh, Uttar Pradesh and Bihar account for 50 per cent of the total Central Sector investment.

Transport

1.41 Even though Kerala enjoys a well developed transport network in several places, the road network, road width etc., are not adequate to accommodate the fast growing motor vehicles population. Therefore road development at least

in parts will have to be degovernmentised so that the communication facilities are increased for meeting the requirement of the growing economy.

1.42 The total number of motor vehicles in Kerala increased from 7.8 lakhs in 1992-93 to 8.9 lakhs in 1993-94. Total number of passenger buses increased from 25345 in 1992-93 to 30370 in 1993-94. Number of KSRTC buses increased from 3456 to 3511 during this period. The KSRTC could make some improvement by way of reduction in operational losses, overaged houses, and also in regard to the man-bus ratio.

Tourism

1.43 The Tourism Department, and the Kerala Tourism Development Corporation are the two governmental agencies involved in the promotion of tourism. The total tourist arrivals in the State during 1993 stood at 11.22 lakhs, out of which foreign tourists were 95,206. Attention is being given for promotional aspects of tourism related activities. A comprehensive programme for the Bakel Fort and adjoining beaches has been conceived. A consultant is at work for preparing a project report for this. The Kerala Tourism Development Corporation runs a chain of hotels, motels, yatrivas etc. Improvement in infrastructural development and marketing have been given priority as part of the overall tourism development.

Education

1.44 Kerala has attained the highest effective literacy rate in the country. The literacy rate achieved is 89.81 per cent compared to the all India rate of 52.21 per cent. The school enrolment in 1994 stood at 58.08 lakhs compared to 58.69 lakhs in 1993.

1.45 During 1993-94 there were 12096 schools, out of which 6702 were LP Schools, 2919 UP Schools and 2475 High Schools. In addition to this there were number of LP and UP sections attached to the UP and High Schools. Of the total number of schools 4446 were Government Schools.

1.6 As on 31-3-1994 the number of school teachers stood at 1.90 lakhs. The teacher pupil ratio in Kerala is 1:31 as against the all India ratio of 1:35. The rise in the number of uncomm. schools with enrolment less than 25 students per standard, is a peculiar phenomenon witnessed in recent years. The number of uncomm. schools have increased from 1165 in 1993 to 1265 in 1994. This is an area where the State Government have to give serious consideration to the justification in continuing them in the manner they are working, particularly when the Government is facing serious fiscal constraints.

1.7 As regards higher education, out of the total 174 arts and science colleges, 41 were Government colleges and 133 were in the private sector. 45 colleges were affiliated to Kerala University, 72 to Calicut University and 57 colleges to the Mahatma Gandhi University. The total enrolment stood at 1.55 lakhs. The teaching faculty had a total strength of 13556, out of which women teachers constitute 39 per cent.

1.8 The technical education in the State consists of 12 Engineering Colleges, 39 Polytechnics and 39 Technical High Schools. Out of the 12 Engineering Colleges, 4 are Government Colleges and 3 are self financing colleges. The total intake in Engineering Colleges stood at 2718 in 1994.

1.9 Total expenditure on education in 1993-94 amounted to Rs.1157.44 crores. The expenditure on education has risen sharply during the last few years. Since the establishment expenditures constitute the lion's share, practically very little allocation is left for essential expenditures for quality improvement. Given the resource constraint the Government is not in a position to appreciably increase the budget provision for this area for bringing about the desired improvement. This can partly be met through a rational pricing policy, in which direction the Government has taken some initiative. That has to be continued to find the much needed resources for sustaining the development already achieved in this regard.

Health

1.50 Kerala has made notable achievements in health standards which are comparable with those in the developed countries. The decadal population growth rate was 13.98 per cent as against the all India average of 23.5 per cent. Achievements in regard to birth rate, death rate, infant mortality rate, couple protection rate, life expectancy at birth are all way ahead of those achieved at the national level.

1.51 The Health care infrastructure, other than those in the hospitals attached to Medical Colleges, consisted of 1249 institutions with a bed strength of 42438 in 1993-94 compared to 1240 institutions with a bed strength of 41018 in the previous year. This consisted of 148 hospitals, 924 primary health centres, 51 community health centres, 53 dispensaries, 22 TB clinics, 14 leprosy control units and one leprosy sanatorium. The number of beds per lakh of population increased to 140 in 1993-94 compared to 137 in the previous year.

1.52 Medical education and training is offered through 5 Medical Colleges, 2 Dental Colleges and 3 Nursing Colleges. All the Medical Colleges put together had a bed strength of 7451 in 1993-94.

1.53 During 1993-94 there were 107 Ayurveda hospitals with 2309 beds, 579 dispensaries, and 139 grant-in-aid Vaidysalas as on 31-3-1994. There were three Government Ayurveda Colleges and two private colleges in the State.

1.54 During the reference period there were 31 homoeopathic hospitals with 950 beds and 374 dispensaries in the State. There were 5 homoeopathic medical colleges of which two are Government Colleges.

1.55 The Family Welfare Programmes in Kerala are being implemented through a network of 924 primary health centres and 5094 sub-centres. The couple protection rate is 60 as compared to 48.2 at the all India level.

1.56 Just as in education the quality of health services has deteriorated considerably as the Government is unable to set apart the required allocation for improving the quality of service. In this case also there is the imperative need for a rational pricing policy. The Resources Commission in its report in 1992 also recommended various means of raising resources from this sector. Some beginning has already been made which has to be pursued to improve the general standards of health care.

Housing

1.57 According to 1991 census there were 55.13 lakh households as against 54.59 lakh houses, resulting in a numerical shortage of 54000 houses. The projected demand for additional houses by 2000 AD is 16 lakhs.

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

1.59 Housing Board is the major public agency which implements about 28 major schemes. As on 31-3-1994, the Board has constructed/extended assistance for construction of about 2.85 lakh houses under various schemes. Public housing scheme and cash loan scheme are the important programmes implemented by the Board.

1.60 The Kerala State Development Corporation for SC/ST have extended financial assistance for construction of 1683 houses, the SC Department has extended assistance for construction 2030 houses and the ST Department for 880 houses during 1993-94. The Rural Development Department has constructed/assisted 16999 houses during 1993-94 under the scheme *Jawahar Rozgar Joyana*.

Water Supply

1.61 According to the latest estimates 44 per cent of the rural population and 65 per cent

of the urban population could be provided with protected drinking water. About 4.64 lakh houses have been connected with piped water supply. There were 1400 rural water supply schemes in operation in the State as on 1-4-1994. According to 1991 census the State had 1384 problem villages, of which 1341 have been covered with water supply. Out of the total 9776 habitations 7494 habitations have been covered as on 31-10-1994. During 1993-94, 159 water supply schemes were completed.

Banking

1.62 The credit-deposit ratio of the commercial banks has been showing declining trends. The ratio which stood at 50.9% as at the end of March 1992 declined to 43.1% by March 1994 and further to 41.73% in September 1994. The NRE deposits as at the end of September 1994 amounted to Rs. 6550 crores, which accounts for 41% of the aggregate bank deposits in the State.

1.63 To go into the reasons for the low and falling credit-deposit ratio in the State and to suggest ameliorative measures, the Reserve Bank of India appointed a Task Force constituting of representatives of banking industry and the State Government. This committee submitted its report to the RBI in August 1994. The Task Force has come out with a number of suggestions and recommendations and has listed out the necessary action points which are expected to improve the credit flow in the State's economy in the coming years. A special monitoring committee under the chairmanship of the Chief Secretary has also been set up, as recommended by the Task Force, to review from time to time the progress of implementation of the recommendations of the Task Force.

Plan Outlay

1.64 The budgeted plan outlay for 1994-95 is Rs.1260 crores. It is expected that this outlay would be expended in full during the current year.

1.65 For 1995-96 the Planning Commission has approved an outlay of Rs.1550 crores

which is 23 per cent higher than the current year's outlay of Rs.1260 crores. In the next year's plan the main thrust is on the development of physical infrastructure needed for stepping up industrial and agricultural investment in the state and thereby accelerate growth of the economy. Thus, power, industry, irrigation transport and communication have been given major emphasis. At the same time areas which are capable of large scale employment generation such as crop production, soil conservation, animal husbandry and dairying, fisheries, village and small scale industries etc. have been given substantially increased outlays. Tourism is another area which has been given emphasis.

1.64 Plan implementation in the State has shown improvement from year to year, both in quantitative and qualitative terms. Against an achievement of 90 per cent of outlay during 1991-92 and 91 per cent during 1992-93, the performance during 1993-94 exceeded 100 per cent. For 1994-95 also the actual expenditure would be exceeding the approved outlay. It was in view of this improved performance that the Planning Commission approved in full the State Government's proposed outlay of Rs.1550 crores for 1995-96 representing an increase of 23 per cent over the outlay approved for the current year. The State Government's performance stands out in comparison with many other states which recorded substantial expenditure shortfalls during the last two years. The likely cumulative plan performance from First Five Year Plan onwards and

the sectoral outlays in percentages during the Eighth Five Year Plan and Annual Plan 1995-96 are given in Figures 1.1 and 1.2.

1.67 In terms of quality also, the plan performance of the State showed significant improvement. In the implementation of the twenty point programme the State could achieve the second rank during 1993-94 among the 25 states. During 1994-95 also, the tempo is being kept up. The monitoring of this programme is done in terms of physical achievements of the schemes which are essentially rural development programmes. Such programmes cover the IRDP, JRY, supply of drinking water in rural areas, programmes benefitting SC/ST families, provision of house sites especially to weaker sections, energisation of pumpsets, development of small scale industries etc. As a result of effective implementation of these programmes, about 1.44 lakh families could be brought above the poverty line since the launching of the Eighth Five Year Plan in 1992-93. It is also significant that more than 50 per cent of these families belonged to SC/ST groups.

1.68 In general the year under review witnessed further improvement in the state's economy and in the State Government's financial position. The improvement during the last three years is not, however, adequate to make a dent on the basic and chronic problems facing the state's economy and Government finances. This poses a challenge to policy and decision makers and to the people.

CUMULATIVE PLAN PERFORMANCE (Sector wise) FROM
FIRST PLAN (1951-56) TO EIGHTH PLAN (1992-97)
(Rs.Crores)

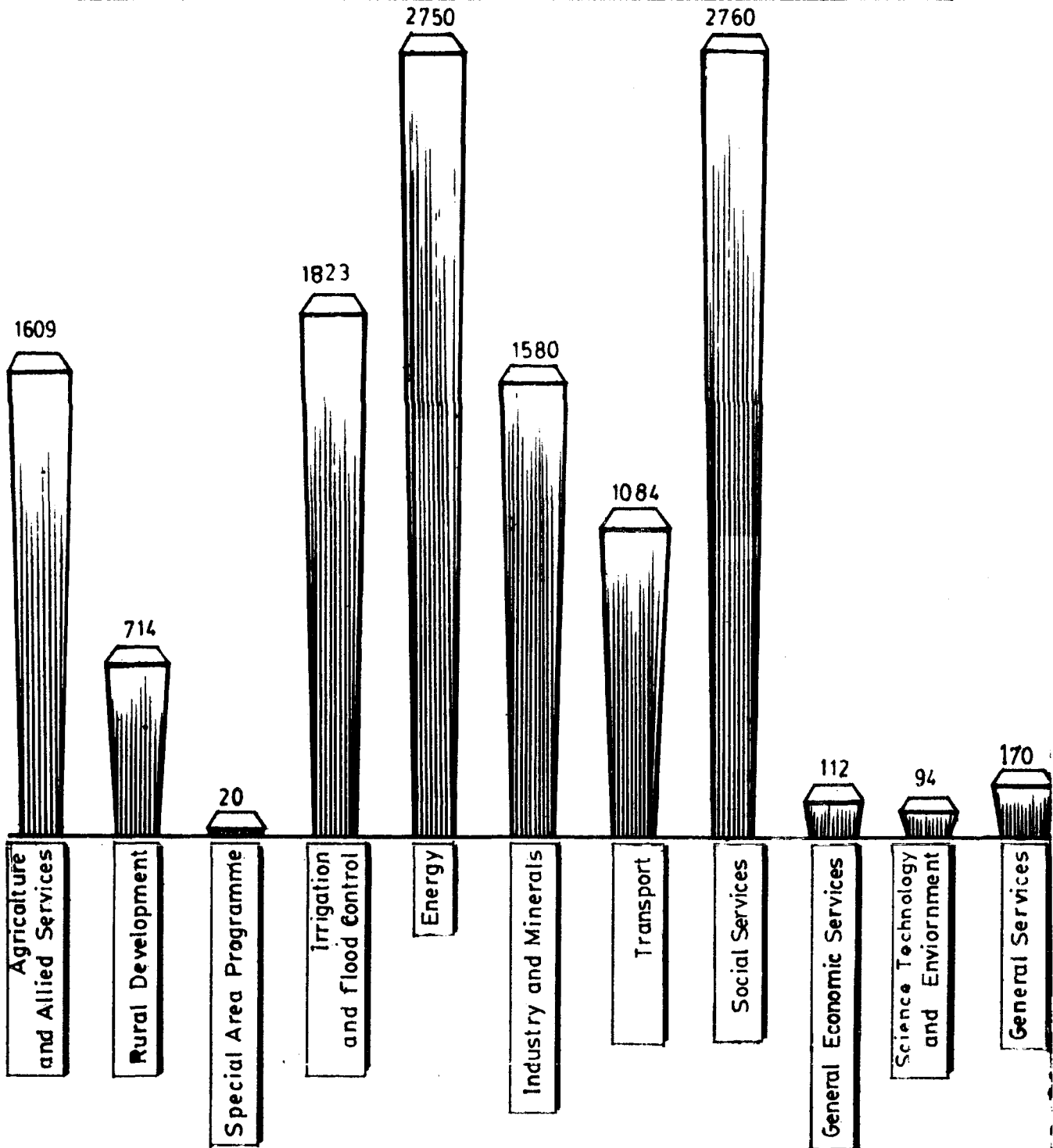


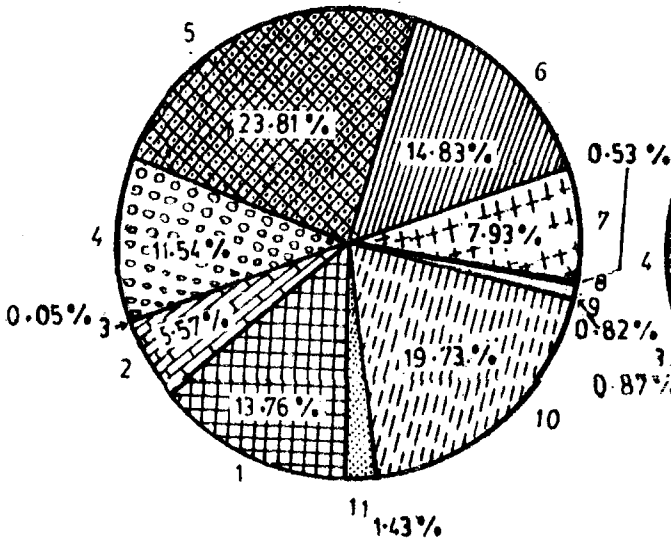
Fig. 1.1

SECTORAL DISTRIBUTION OF OUTLAYS IN PERCENTAGES

EIGHTH PLAN

1992-97

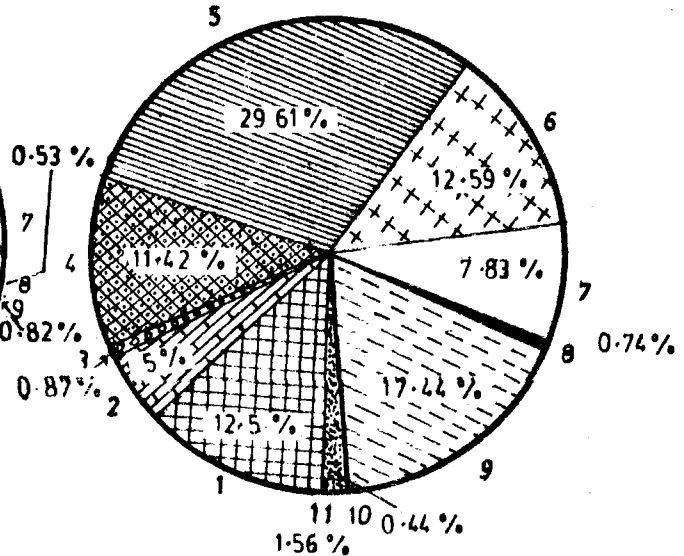
Outlay Rs. 5460 Crores



ANNUAL PLAN

1995-96

Outlay Rs. 1550 Crores



- 1 AGRICULTURE AND ALLIED SERVICES
- 2 RURAL DEVELOPMENT
- 3 SPECIAL AREA PROGRAMME
- 4 IRRIGATION AND FLOOD CONTROL
- 5 ENERGY
- 6 INDUSTRY AND MINERALS
- 7 TRANSPORT
- 8 SCIENCE TECHNOLOGY AND ENVIRONMENT
- 9 GENERAL ECONOMIC SERVICES
- 10 SOCIAL SERVICES
- 11 GENERAL SERVICES

- 1 AGRICULTURE AND ALLIED SERVICES
- 2 RURAL DEVELOPMENT
- 3 CO-OPERATION
- 4 IRRIGATION AND FLOOD CONTROL
- 5 POWER
- 6 INDUSTRY AND MINERALS
- 7 TRANSPORT AND COMMUNICATION
- 8 SCIENTIFIC SERVICES AND RESEARCH
- 9 SOCIAL SERVICES
- 10 ECONOMIC SERVICES
- 11 GENERAL SERVICES

Fig. 1-2

CHAPTER - 2

INCOME AND EMPLOYMENT

National Income

The overall trends in the growth of national income indicate a steady growth of the economy in the range of 3.5 per cent to 5 per cent during the first three years of the Eighth Plan period. A notable feature is the revival of the industrial sector, covering both the capital and consumer goods industries, signifying the near completion of the period of adjustment the industry has been going through as a result of the introduction of the structural adjustments and globalisation of the Indian economy.

2.2 At constant (1980-81) prices, the national income (net domestic product at factor cost) in 1993-94 is estimated at Rs. 1,99,985 crores as against Rs.1,93,222 crores in 1992-93, registering a growth rate of 3.5 per cent as against the growth rate of 4.2 per cent in 1992-93. At current prices, the net domestic product in 1993-94 is estimated at Rs.6,07,603 crores as compared to Rs. 5,44,935 crores in 1992-93, showing a growth rate of 11.5 per cent.

2.3 The national income is projected to grow by about 4.5 per cent during 1994-95 in real terms.

2.4 The per capita national income, in real terms, is estimated at Rs.2,249 for 1993-94 as against Rs. 2,216 in 1992-93 registering an increase of 1.5 per cent. At current prices, it is estimated at Rs.6,836 in 1993-94 as against Rs. 6,249 in 1992-93 showing a growth rate of 9.4 per cent (see Table 2.1). It is expected that per capita income at

constant prices for 1994-95 would be Rs.2,308 registering a growth rate of 2.6 per cent. This would amount to Rs.7,561 at current prices indicating a growth rate of 10.6 per cent.

State Income

2.5 At constant prices, the state income during 1993-94 is estimated at Rs.5,940 crores as against Rs.5,680 crores in 1992-93 indicating a growth rate of 4.6 per cent as against 5.9 per cent in 1992-93. The State income at current prices has increased to Rs. 18,133 crores in 1993-94 from Rs. 17,010 crores in 1992-93 showing a growth rate of 6.6 per cent.

2.6 The state income in real terms is expected to grow by 5.3 per cent to reach Rs.6,253 crores in 1994-95. At current prices, this would amount to Rs.19,586 crores registering an increase of 8 per cent.

2.7 The per capita income of the state at constant prices has gone up by 3.1 per cent from Rs.1,908 in 1992-93 to Rs. 1,968 in 1993-94 and is expected to grow about 3.9 per cent to Rs. 2,044 in 1994-95. At current prices, the state per capita income has increased by 5.5 per cent from Rs. 5,713 in 1992-93 to Rs.6,009 in 1993-94. It is anticipated to reach Rs.6,404 in 1994-95 indicating a growth rate of 6.6 per cent.

2.8 Although the per capita income of the State is lagging behind the national average, the gap has been steadily declining. The per capita income of India and Kerala are given in Table 2.1.

TABLE 2.1

National Income and State Income (New Series)

| Item | Unit | 1980-81 | 1990-91 | Growth | 1991-92 | Growth | 1992-93 | Growth | 1993-94 | Growth | 1994-95 | Growth |
|---|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| (1) | (2) | (3) | (4) | Rate(%) | (P) | Rate(%) | (Q) | Rate(%) | (A) | Rate(%) | (F) | Rate(%) |
| National Income (Rs. Crores) | | | | | | | | | | | | |
| At current Prices | | 110685 | 416495 | 16.4 | 477868 | 14.7 | 544935 | 14.0 | 607603 | 11.5 | 684768 | 12.7 |
| At Constant Prices | | 110685 | 185683 | 4.6 | 185503 | (-)0.1 | 193222 | 4.2 | 199985 | 3.5 | 208984 | 4.5 |
| State Income (Rs. Crores) | | | | | | | | | | | | |
| At Current Prices | | 3823 | 12173 | 13.1 | 15101 | 24.1 | 17010 | 12.6 | 18133 | 6.6 | 19586 | 8.0 |
| At Constant Prices | | 3823 | 5262 | 5.4 | 5365 | 2.0 | 5680 | 5.9 | 5940 | 4.6 | 6253 | 5.3 |
| Per Capita National Income (Rs.) | | | | | | | | | | | | |
| At Current Prices | | 1630 | 4964 | 14.0 | 5583 | 12.5 | 6249 | 11.9 | 6836 | 9.4 | 7561 | 10.6 |
| At Constant Prices | | 1630 | 2213 | 2.5 | 2167 | (-)2.1 | 2216 | 2.3 | 2249 | 1.5 | 2308 | 2.6 |
| Per Capita State Income (Rs.) | | | | | | | | | | | | |
| At Current Prices | | 1508 | 4200 | 11.7 | 5140 | 22.4 | 5713 | 11.2 | 6009 | 5.5 | 6404 | 6.6 |
| At Constant Prices | | 1508 | 1815 | 4.1 | 1826 | 0.6 | 1908 | 4.5 | 1968 | 3.1 | 2044 | 3.9 |

Note: 1. Constant prices refer to 1980-81 as base.
2. P - Provisional; Q - Quick Estimate; A - Anticipated; F - Forecast

Source: (i) Department of Economics & Statistics.
(ii) Central Statistical Organisation.
(iii) Economic Survey, 1993.
(iv) In the absence C S O estimate, the national income figures for 1993-94 and 1994-95 are taken from CNIE, December 1994.

Sectoral Distribution of Income

2.9 The share of primary sector to the State income at current prices has marginally fallen from 41.1 per cent in 1992-93 to 39.6 per cent in 1993-94. The corresponding gains were made by the tertiary sector as its share has gone up from 35.5 per cent in 1992-93 to 37.1 per cent in 1993-94. The share of secondary sector at current prices has remained more or less stagnant during this period.

2.10 However, at constant prices, there is hardly any variation in the distribution of state income originating from the three sectors. The yearly movement of the sectoral share of the state income at current and constant prices is given in Table 2.2. The sectoral distribution of net domestic product of India is given in Appendix 2.1 and that of Kerala in Appendix 2.2 and Appendix 2.3.

TABLE 2.2

Sectoral Share of Net Domestic Product - Kerala

(Per cent)

| Sector | At Current Prices | | | | | At Constant Prices | | | | |
|-----------|-------------------|---------|---------|---------|---------|--------------------|---------|---------|---------|---------|
| | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Primary | 39.28 | 32.91 | 39.34 | 41.13 | 39.63 | 39.23 | 35.99 | 36.43 | 36.84 | 36.66 |
| Secondary | 24.37 | 26.35 | 24.76 | 23.34 | 23.24 | 24.37 | 23.92 | 23.83 | 23.66 | 23.50 |
| Tertiary | 36.40 | 40.74 | 35.90 | 35.53 | 37.13 | 36.40 | 40.09 | 39.74 | 39.50 | 39.84 |
| Total | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |

Regional Distribution of Income.

2.11 Trends in district-wise distribution of state income may serve as a useful indicator of the regional disparities in economic development. The district-wise distribution of state income under the three broad sectors at current and constant prices for the period from 1980-81 to 1993-94 is given in Appendix 2.4

2.12 The per capita income may be taken as one of the indicators of the economic development of a region. Ernakulam continues to have the highest per capita income followed by Idukki and Kannur. The per capita income of Ernakulam at constant prices has increased by Rs. 100 from Rs.2,880 in 1992-93 to Rs.2,980 in 1993-94. The per capita income of Malappuram, the district which continues to have the lowest per capita income has gone up by only Rs.36 from Rs.1,219 in 1992-93 to Rs.1,255 in 1993-94 indicating the growing regional disparities. Per capita income of districts with their respective ranks from 1980-81 to 1993-94 is given in Table 2.3.

Regional Variation in Sectoral Growth Rates.

2.13 District-wise growth rates of sectoral and total income at constant prices during 1993-94 is given in Table 2.4. The highest growth rate of 5.08 per cent has been secured by Alappuzha followed by Ernakulam (4.87%), Kottayam and Kollam (4.65%), Pathanamthitta (4.56%) and Thrissur (4.47%). The lowest growth rate was observed in Kasargode (3.79%) followed by Wayanad (3.93%) and Idukki (3.98%).

2.14 As regards sectoral growth rate of income, marked variations are seen in primary sector with the highest growth rate of 6.33 per cent in Ernakulam and the lowest growth rate of 2.38 per cent in Kasargode. The growth rate of secondary sector has been low in all districts with growth ranging between 3 per cent and 4.5 per cent. Tertiary sector, whose growth rate has been almost uniform in all the districts, showed a higher growth rate of 6.77 per cent in Thiruvananthapuram.

TABLE 2.3

District-wise Per capita Income at Current and Constant Prices 1980-81 and 1993-94

(Rs.)

| Sl No. | District | Constant Prices | | | | | Current Prices | | | | | | | | | | | | | | |
|--------|--------------------|-----------------|---------|---------|---------|---------|----------------|---------|---------|---------|---------|------|------|------|------|------|------|------|------|------|------|
| | | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1980-81 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | | | | | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) |
| 1 | Ernakulam | 2017 | (1) | 2749 | (1) | 2768 | (1) | 2880 | (1) | 2980 | (1) | 2017 | (1) | 6502 | (1) | 8010 | (1) | 8858 | (1) | 9538 | (1) |
| 2 | Idukki | 1995 | (2) | 2095 | (2) | 2116 | (2) | 2211 | (2) | 2269 | (2) | 1995 | (2) | 4612 | (2) | 6073 | (2) | 6834 | (2) | 6994 | (2) |
| 3 | Kannur | 1571 | (4) | 1665 | (11) | 1930 | (3) | 2016 | (3) | 2077 | (3) | 1571 | (4) | 3872 | (11) | 5364 | (3) | 5967 | (3) | 6220 | (3) |
| 4 | Thrissur | 1462 | (7) | 1895 | (5) | 1889 | (4) | 1965 | (4) | 2025 | (4) | 1462 | (7) | 4422 | (3) | 5277 | (4) | 5822 | (4) | 6141 | (4) |
| 5 | Pathanamthitta | ... | | 1981 | (4) | 1832 | (5) | 1918 | (5) | 1980 | (5) | ... | | 4408 | (4) | 5056 | (5) | 5642 | (5) | 5928 | (5) |
| 6 | Thiruvananthapuram | 1484 | (6) | 1842 | (7) | 1786 | (6) | 1875 | (6) | 1945 | (6) | 1484 | (6) | 4220 | (8) | 4925 | (8) | 5449 | (9) | 5752 | (8) |
| 7 | Kottayam | 1452 | (8) | 1824 | (8) | 1772 | (7) | 1856 | (7) | 1917 | (7) | 1452 | (8) | 4038 | (9) | 4945 | (7) | 5552 | (7) | 5831 | (7) |
| 8 | Wayanad | .. | | 1999 | (3) | 1762 | (8) | 1848 | (8) | 1896 | (8) | ... | | 4301 | (6) | 4967 | (6) | 5574 | (6) | 5679 | (11) |
| 9 | Palakkad | 1307 | (10) | 1623 | (12) | 1757 | (9) | 1836 | (9) | 1889 | (9) | 1307 | (10) | 3082 | (13) | 4922 | (9) | 5469 | (8) | 5676 | (10) |
| 10 | Kozhikode | 1588 | (3) | 1670 | (10) | 1742 | (10) | 1817 | (10) | 1872 | (10) | 1588 | (3) | 3949 | (10) | 4837 | (12) | 5336 | (12) | 5595 | (12) |
| 11 | Kollam | 1536 | (5) | 1866 | (6) | 1734 | (11) | 1812 | (11) | 1871 | (11) | 1536 | (5) | 4350 | (5) | 4889 | (10) | 5431 | (11) | 5721 | (9) |
| 12 | Alappuzha | 1311 | (9) | 1815 | (9) | 1684 | (12) | 1767 | (12) | 1832 | (12) | 1311 | (9) | 4268 | (7) | 4865 | (11) | 5443 | (10) | 5849 | (6) |
| 13 | Kasargode | ... | | 1559 | (13) | 1652 | (13) | 1721 | (13) | 1762 | (13) | ... | | 3659 | (12) | 4663 | (13) | 5179 | (13) | 5296 | (13) |
| 14 | Malappuram | 1045 | (11) | 1094 | (14) | 1167 | (14) | 1219 | (14) | 1255 | (14) | 1045 | (11) | 2592 | (14) | 3275 | (14) | 3665 | (14) | 3817 | (14) |
| | State | 1508 | | 1815 | | 1826 | | 1908 | | 1968 | | 1508 | | 4200 | | 5140 | | 5713 | | 6009 | |

Note:- The district are ranked according to their per capita income at constant prices in 1993-94. The rankings are given in brackets.

TABLE 2.4

Growth Rate of District Income during 1993-94 (at 1980-81 Prices)

(Per Cent)

| S1 No. | District | Primary | Secondary | Tertiary | Total |
|-----------|--------------------|---------|-----------|----------|-------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1 | Alappuzha | 5.53 | 3.84 | 5.41 | 5.08 |
| 2 | Ernakulam | 6.33 | 3.73 | 5.12 | 4.87 |
| 3 | Kollam | 4.20 | 3.83 | 5.58 | 4.65 |
| 4 | Kottayam | 3.96 | 3.93 | 5.43 | 4.65 |
| 5 | Thiruvananthapuram | 3.43 | 3.88 | 6.77 | 4.57 |
| 6 | Pathanamthitta | 3.79 | 3.97 | 5.48 | 4.56 |
| 7 | Thrissur | 4.08 | 3.88 | 5.15 | 4.47 |
| 8 | Kozhikode | 4.02 | 3.89 | 5.34 | 4.40 |
| 9 | Kannur | 3.61 | 3.92 | 5.41 | 4.38 |
| 10 | Malappuram | 3.60 | 4.24 | 5.26 | 4.34 |
| 11 | Palakkad | 3.64 | 3.84 | 3.78 | 4.29 |
| 12 | Idukki | 3.48 | 4.37 | 5.09 | 3.98 |
| 13 | Wayanad | 3.45 | 3.69 | 5.29 | 3.93 |
| 14 | Kasargode | 2.38 | 4.17 | 4.30 | 3.79 |
| | State | 4.07 | 3.87 | 5.47 | 4.57 |

Unemployment

2.15 Unemployment continues to be a major problem in the State. According to the live register figures of employment exchanges, there were 19 lakh job seekers in the state in 1981. It rose to 33.2 lakhs in 1990. The figure was further pushed up to 40.2 lakhs in 1994 (as on 31-5-1994). The chronic unemployment among the educated has

been alarmingly growing. The district-wise distribution of job seekers is given in Table- 2.5

2.16 However, it may be noted that the live register figures of the Employment Exchanges may be taken only as an indicator of the magnitude of the problems of unemployment and underemployment rather than as the actual number of persons unemployed.

TABLE 2.5

District-wise distribution of job seekers as on 31-5-1994

| Sl.No. Districts | No. | Per cent |
|-----------------------|------------------|---------------|
| 1. Thiruvananthapuram | 741855 | 18.44 |
| 2. Kollam | 407564 | 10.23 |
| 3. Alappuzha | 332540 | 8.37 |
| 4. Pathanamthitta | 175261 | 4.41 |
| 5. Kottayam | 324861 | 8.17 |
| 6. Idukki | 126815 | 3.25 |
| 7. Ernakulam | 430480 | 10.70 |
| 8. Thrissur | 321689 | 8.10 |
| 9. Palakkad | 259787 | 6.56 |
| 10. Malappuram | 199575 | 4.96 |
| 11. Kozhikode | 308383 | 7.67 |
| 12. Wayanad | 63926 | 1.59 |
| 13. Kannur | 223545 | 5.66 |
| 14. Kasargode | 72085 | 1.89 |
| Total | 40,23,219 | 100.00 |

Distribution of job seekers by Educational Levels.

2.17 The proportion of educated job seekers (S S L C and above) has been on the increase over the years. From 50 per cent in 1983, it has gone up to 66 per cent in 1994. There were 26.6 lakh job seekers with S S L C and higher qualification as on 31-5-1994. This consisted of 21.4 lakh matriculates, 3.1 lakh P D C holders, 1.8 lakh degree holders, and 35,143 post graduates.

The distribution of job seekers by educational levels in Kerala is given in Appendix 2.6.

2.18 The number of professional and technical job seekers is also increasing in the State. In 1990, there were 1.16 lakh professional and technical job seekers in Kerala. It increased to 1.29 lakh in 1994 (as on 31-5-1994). The details are given in Appendix - 2.7.

Employment in the organised sector.

2.19 Employment trends in the public and private organised sectors are given in Appendix - 2.8. Employment in the organised sector has grown only marginally in 1980's and early 1990's. Employment in the organised sector in the state was 11.85 lakhs as on March 1993 consisting of 6.46 lakhs in the public sector and 5.39 lakhs in the private sector. A favourable trend in the organised sector employment is the reversal of the declining trend in the private sector. The private sector organised employment, which has actually declined in the 1980's, is showing signs of recovery in the 1990's.

Placement through Employment Exchanges.

2.20 Details of placement through employment exchanges are given in Table - 2.6. Through employment exchanges, 13,828 registered job seekers got placement in 1993-94 as against 17,890 persons in 1992-93. Compared to the total number of job seekers in the live register, placement through employment exchanges is negligible.

2.21 During 1993-94, on an average, about 452 employers per month have used the services of employment exchanges as against 404 employers per month during 1992-93.

TABLE - 2.6

Placement through employment Exchanges.

| Year | No. of place-ments | Monthly average no. of employers using employment exchanges |
|---------|--------------------|---|
| (1) | (2) | (3) |
| 1985-86 | 13700 | 403 |
| 1986-87 | 15571 | 454 |
| 1987-88 | 13869 | 492 |
| 1988-89 | 15504 | 473 |
| 1989-90 | 17514 | 441 |
| 1990-91 | 14280 | 540 |
| 1991-92 | 15640 | 392 |
| 1992-93 | 17890 | 404 |
| 1993-94 | 13828 | 452 |

Placement through O D E P C.

2.22 Overseas Development and Employment Promotion Consultants Limited (ODEPC) is a government agency functioning

since 1977, to help people to secure jobs abroad. During 1994, this agency helped to provide placement to 88 persons in different categories of skills in four countries - 73 persons in Saudi Arabia, 12 persons in UAE, five persons in Qatar and one in Yemen. The total includes 22 doctors, 22 para medical staff and 28 marketing and salesmen. The category wise and country wise deployment of personnel is given in Appendix - 2.9.

Self-Employment Assistance scheme.

2.23 The Self-employment Assistance Scheme was introduced in the State with effect from 1-11-1982. So far 3,03,646 applications were received under the scheme. Out of this, 1,40,274 applications were sanctioned and 61,842 applications are pending disposal at various levels. Till the end of July 1994, 1,27,570 persons were benefitted by the scheme consisting of 27,805 persons who received loans from banks, and 99,765 persons who availed lump sum assistance of Rs. 600.00. The banks have advanced a sum of Rs. 9.05 crores. An amount of Rs.7.65 crores was paid as seed money/lump sum assistance up to July 1994. The details are given in Table - 2.7.

TABLE - 2.7

Self Employment Assistance Scheme.

| Year | Applications received (no) | No. of Beneficiaries | Amount disbursed (Rs.lakhs) |
|----------|----------------------------|----------------------|-----------------------------|
| 1987-88 | 18241 | 1042 | 6.25 |
| 1988-89 | 13556 | 13248 | 79.48 |
| 1989-90 | 10042 | 4965 | 29.79 |
| 1990-91 | 10127 | 4665 | 27.99 |
| 1991-92 | 10279 | 2653 | 15.92 |
| 1992-93 | ... | 45 | 0.27 |
| 1993-94 | 6382 | 100 | 0.60 |
| 1994-95* | 303646 | 127570 | 7.65 |

*As on 31-7-1994.

source:- Directorate of Employment and Training.

Unemployment Assistance Scheme.

2.24 The Government of Kerala introduced the unemployment Assistance Scheme in 1982 to provide temporary relief to the unemployed in the state. During 1994-95 (upto 31-7-94) an amount of Rs. 68.64 crores was distributed as unemployment assistance to 4.7 lakh beneficiaries. The details are given in Appendix - 2.10.

Birth Rate, Death Rate and Infant Mortality Rate.

2.25 Among the Indian States, Kerala ranks first in containing the growth of

population. The improved sanitation, health, family welfare and higher literacy have had a very commendable impact on the Kerala's demographic trends.

2.26 During 1993, the birth and death rates per 1000 population were only 17.3 and 6.0 respectively. The corresponding figures for 1992 were 17.7 and 6.3. The infant mortality rate too had declined to 13 per 1000 during 1993 from 17 per 1000 in 1992.

2.27 The comparative position of Kerala vis-a-vis other states with respect to selected demographic indicators is given in Appendix - 2.15.

CHAPTER 3

PRICES, COST OF LIVING AND WAGES

Wholesale Prices

The prices of agricultural commodities showed a sharp decline during 1994 as reflected in the wholesale price index of these commodities. In 1994, during the first nine months for which information is available, unlike in the past few years, there was a distinct fall in the wholesale price index of agricultural commodities in Kerala. The index declined by 127.6 points, from 1580.7 to 1453.1 during January to September 1994 compared to the corresponding period in 1993, registering a marked fall of 8.1%. Such a decline was largely contributed by the fall in the index of condiments and spices and oilseeds. The low levels of farm prices of coconut prevailed throughout the year resulted in the index of oilseeds declining by 21.8%, from 2453.2 in 1993 to 1918.1 in 1994. Similarly the price index of condiments and spices also came down by 12.01%, from 2020.9 in September 1993 to 1778.2 in September 1994. At the same time, the price indices of other commodities such as rice, fruits and vegetables, molasses and plantation crops showed modest increases by 7%, 2%, 4.9% and 3% respectively. Another significant

point observed was that the price variations in 1994, in respect of the crops in general, were less than those in 1993 (see table 3.1). The trend of wholesale price indices of agricultural commodities in Kerala since 1985 is shown in Fig.3.1.

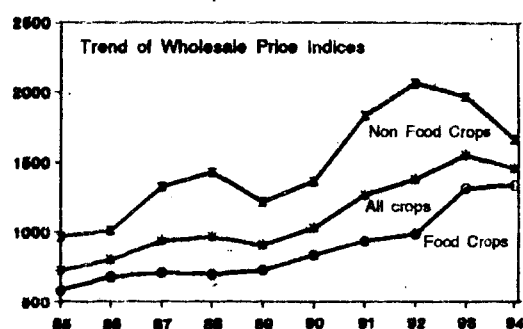


Fig 3.1: Trend of Wholesale price indices of Food Crops, Non-Food Crops and All Crops

3.2. On analysing the month-wise indices, it is observed that the price index of all crops put together witnessed more or less a steady increase from January to September 1994. The index for individual crops however witnessed a mixed trend, with molasses and oilseeds

Table 3.1

Wholesale Price Index of Agricultural Commodities 1991 - 94*

(Base 1952-53 = 100)

| Crops | Weight | Wholesale Price Index | | | | | % Change over previous year | | |
|---------------------|--------|-----------------------|--------|--------|--------|--------|-----------------------------|-------|--------|
| | | 1991 | 1992 | 1993 | 1993* | 1994* | 1992 | 1993 | 1994* |
| A. Food Crops | 63.5 | 936.1 | 983.6 | 1310.3 | 1324.1 | 1332.5 | 5.07 | 33.22 | 0.63 |
| Rice | 40.4 | 638.1 | 638.1 | 837.1 | 831.1 | 889.3 | Nil | 31.19 | 7.00 |
| Condiments & Spices | 10.4 | 1542.4 | 1688.4 | 1894.5 | 2020.9 | 1778.2 | 9.47 | 12.21 | -12.01 |
| Fruits & Vegetables | 10.7 | 1449.3 | 1570.5 | 2434.2 | 2436.9 | 2485.7 | 8.36 | 55.00 | 2.00 |
| Molasses | 2.0 | 1061.2 | 1161.0 | 1802.7 | 1697.3 | 1780.9 | 9.41 | 55.27 | 4.93 |
| B. Non-Food Crops | 36.5 | 1832.0 | 2061.6 | 1966.2 | 2027.0 | 1662.9 | 12.53 | -4.63 | -17.96 |
| Oil Seeds | 25.5 | 2240.1 | 2543.3 | 2367.8 | 2453.2 | 1918.1 | 13.54 | -6.90 | -21.81 |
| Plantation Crops | 11.0 | 888.1 | 948.1 | 1037.9 | 1041.9 | 1073.1 | 6.76 | 9.47 | 3.00 |
| C. All Crops | 100.00 | 1263.1 | 1377.1 | 1549.7 | 1580.7 | 1453.1 | 9.03 | 12.53 | -8.07 |

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

* Average from January to September (9 months) only.

showing a decline, while that for condiments, food crops, and plantain crops witnessed a steady increase from January to September 1994. In the case of rice the index which remained unchanged at 855.2 during the first eight months, rose to 1161.9 following the increase in the issue price of rice supplied through Public Distribution System. The prices of condiments and spices which moved up from 1348.5 in January to a peak of 2124.7 in May, declined to 2046.9 in June and further to 1864.4 in September 1994. The indices of fruits and vegetables showed an upward trend from 2382.3 in January to 2634.2 in September. The month wise wholesale price indices of agricultural commodities during 1994 is given in Appendix 3.1.

Retail Prices

3.3. The trend of average annual retail prices of twenty two essential commodities dur-

ing the period from January to September 1994 show that as many as eight commodities witnessed downward trend, significant among them being that of redgram by 6.5%, coconut oil by 12.1%, eggs by 13%, potato by 9%, and coconut by 11.6%, over corresponding period of previous year. On the other hand the prices of black gram, milk, chillies and sugar rose sharply during the period, the increase in the case of blackgram witnessing an increase of about 55 percent, followed by chillies by about 40 percent. The price levels of other commodities rice, green-gram; Dhal, refined oil, groundnut oil etc. also showed moderate to relatively large increases during the period. Comparative position is given in Table 3.2

3.4. On analysing the month-wise prices of commodities it is found that fluctuation in

Table 3.2

Average Retail Prices of Essential Commodities 1991 - 94

(Rupees)

| Commodities | Unit | Prices as at the end of December | | | | | % Changeover previous Year. | | |
|-----------------------------|----------|----------------------------------|--------|--------|--------|--------|-----------------------------|--------|--------|
| | | 1991 | 1992 | 1993 | 1993* | 1994* | 1992 | 1993 | 1994* |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. Rice | Kg. | 6.99 | 7.69 | 7.61 | 7.58 | 8.63 | 10.01 | -1.04 | 13.85 |
| 2. Greengram | " | 11.99 | 14.20 | 15.52 | 15.39 | 16.61 | 18.43 | 9.30 | 7.93 |
| 3. Blackgram | " | 13.85 | 13.89 | 13.95 | 13.63 | 21.10 | 0.29 | 0.43 | 54.81 |
| 4. Redgram | " | 9.34 | 10.25 | 14.06 | 14.67 | 13.72 | 9.74 | 37.17 | -6.48 |
| 5. Dhal | " | 20.28 | 19.53 | 20.96 | 19.49 | 21.02 | -3.70 | 7.32 | 7.85 |
| 6. Coconut Oil | " | 56.04 | 51.94 | 37.02 | 41.65 | 36.61 | -7.32 | -28.73 | -12.10 |
| 7. Groundnut Oil | " | 44.46 | 40.61 | 39.45 | 41.90 | 43.57 | -8.66 | -2.86 | 3.99 |
| 8. Refined Oil | " | 65.18 | 62.27 | 58.75 | 52.16 | 58.04 | -4.47 | -5.65 | 11.27 |
| 9. Tapioca | " | 2.16 | 2.71 | 2.81 | 2.87 | 2.95 | 25.46 | 3.69 | 2.79 |
| 10. Banana (Green) | " | 6.64 | 6.90 | 7.24 | 8.79 | 11.15 | 3.92 | 4.93 | 26.85 |
| 11. Milk (Cow) | Ltr. | 6.75 | 7.68 | 7.82 | 7.82 | 8.82 | 13.78 | 1.82 | 12.79 |
| 12. Egg. (Hen) | Dozen | 10.57 | 13.02 | 13.93 | 14.67 | 12.76 | 23.18 | 6.99 | 13.02 |
| 13. Potato | Kg | 5.79 | 4.55 | 7.96 | 5.48 | 4.98 | -21.42 | 74.95 | -9.12 |
| 14. Corriander | " | 17.61 | 18.39 | 19.39 | 17.79 | 19.83 | 4.43 | 5.44 | 11.47 |
| 15. Chillies (dry) | " | 54.14 | 45.48 | 24.14 | 22.79 | 31.80 | -16.00 | -46.92 | 39.54 |
| 16. Onion | " | 4.26 | 6.99 | 8.25 | 6.06 | 5.97 | 64.09 | 18.03 | -1.49 |
| 17. Sugar | " | 8.46 | 9.66 | 13.09 | 11.34 | 13.47 | 14.18 | 35.51 | 18.78 |
| 18. Coconut (without husk) | 100 Nos. | 472.14 | 478.49 | 351.79 | 386.07 | 341.16 | 1.35 | 26.48 | -11.63 |
| 19. Firewood (Local split) | Qtl. | 72.50 | 84.29 | 84.38 | 81.88 | 85.63 | 16.26 | 0.11 | 4.58 |
| 20. Washing Soap (Sunlight) | Each | 4.48 | 5.00 | 5.30 | 5.30 | 5.23 | 11.61 | 6.00 | -1.32 |
| 21. Electric Bulb | " | 8.21 | 8.95 | 9.52 | 9.47 | 9.58 | 9.01 | 6.37 | 1.16 |
| 22. Baby Food | Kg. | 74.08 | 81.50 | 82.00 | 83.36 | 82.31 | 10.02 | 0.61 | -1.26 |

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

* At the end of September

prices were common in respect of most of the commodities. Prices of greengram, redgram, dhal, egg, vegetable etc. showed erratic trends, while that of blackgram, coffee, groundnut oil, chillies, banana witnessed more or less steady increase in prices (see Appendix 3.2)

Consumer Price Index

3.5. Consumer price index (cost of living index), a broad indicator of inflationary trend for industrial workers in selected centres witnessed a disturbing trend, when the index rose by 12 percent in 1994 compared to an increase of 8.3 percent in 1993. This shows that the rate of inflation was higher in 1994. The trend of consumer price indices in Kerala since 1985, together with their variations over the preceding years are depicted in Fig.3.2. The average annual consumer price indices in fifteen selected centres in Kerala are given in Table 3.3.

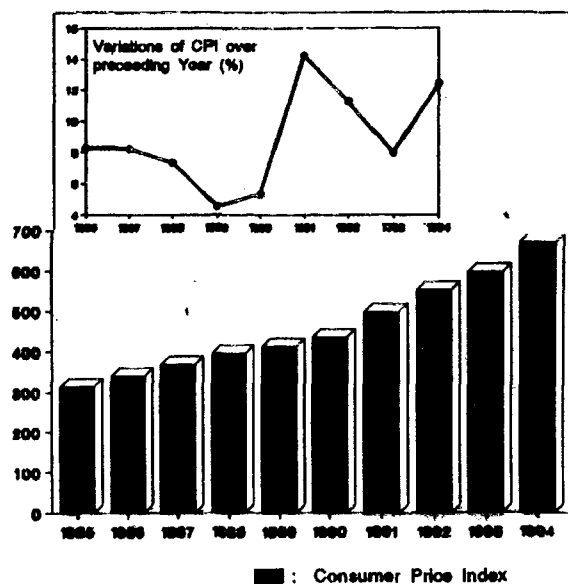


Fig.3.2: Trend of Consumer Price Indices (CPI) and their variations over preceding Year.

Table 3.3

Annual Average Consumer Price Index Numbers in selected Centres of Kerala 1991 - 1994*

Base 1970 = 100

| Centres | Consumer Price Index numbers | | | | | % Change over previous Year | | |
|--------------------|------------------------------|------|------|-------|-------|-----------------------------|------|-------|
| | 1991 | 1992 | 1993 | 1993* | 1994* | 1992 | 1993 | 1994* |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Thiruvananthapuram | 498 | 552 | 596 | 594 | 668 | 10.84 | 7.97 | 12.46 |
| Kollam | 515 | 571 | 615 | 613 | 684 | 10.87 | 7.71 | 11.58 |
| Punalur | 488 | 544 | 586 | 585 | 637 | 11.48 | 7.72 | 8.89 |
| Alapuzha | 493 | 552 | 599 | 597 | 672 | 11.97 | 8.52 | 12.56 |
| Kottayam | 500 | 555 | 599 | 597 | 672 | 11.00 | 7.93 | 12.56 |
| Mundakkayam | 497 | 552 | 599 | 598 | 671 | 11.07 | 8.52 | 12.21 |
| Munnar | 487 | 541 | 590 | 588 | 664 | 11.09 | 9.06 | 12.93 |
| Ernakulam | 481 | 540 | 589 | 586 | 656 | 12.27 | 9.07 | 11.95 |
| Chalakydy | 499 | 559 | 608 | 606 | 683 | 12.02 | 8.77 | 12.71 |
| Thrissur | 482 | 539 | 587 | 585 | 663 | 11.83 | 8.91 | 13.33 |
| Palakkad | 486 | 543 | 591 | 589 | 670 | 11.73 | 8.84 | 13.75 |
| Malappuram | 516 | 572 | 617 | 615 | 692 | 10.85 | 7.87 | 12.52 |
| Kozhikode | 501 | 553 | 597 | 595 | 664 | 10.38 | 7.96 | 11.60 |
| Meppady | 513 | 565 | 611 | 609 | 690 | 10.14 | 8.14 | 13.30 |
| Kannur | 499 | 554 | 602 | 600 | 676 | 11.02 | 8.66 | 12.67 |
| State Average | 497 | 553 | 599 | 597 | 671 | 11.27 | 8.32 | 12.40 |

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

* Average from January to November (11 months) only.

Parity Index

3.6. Parity index is a measure of prices received by farmers over the prices paid by the farmers. In 1994, the parity index went down by 5 points, from 82 in 1993 to 77 in 1994. During the year under review, when the prices re-

ceived by farmers increased by 1.1% only, the prices paid by farmers increased by 8.1%. Thus the index number of parity between prices received and paid by farmers continued to be less favourable to them. The parity indices from 1986 to 1994 are given in Table 3.4.

Table 3.4
Index Numbers of Prices Received and Prices paid by Farmers

(Base: 1952-53 = 100)

| Year | Price Received by farmers | Farm Cultivation cost | Domestic expenditure | Price Paid by farmers | Parity as col.2 to Col.5. |
|-------|---------------------------|-----------------------|----------------------|-----------------------|---------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 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* | 1513 | 2785 | 1411 | 1982 | 77 |

* Average up to May 1994

Farm Commodity Prices

3.7. Prices of agricultural commodities in general fared well during 1993-94 with the exception of coconut. The price of pepper recorded a remarkable recovery from Rs 2617 per quintal in 1992-93 to Rs.3909 per quintal in 1993-94. In percentage terms, pepper recorded the highest increase in price (49.39%) followed by sugarcane (24.15%) banana (15.62%), ginger (14.76%) cashewnut (6.69%), tapioca (5.48%) and arecanut (1.94%). Paddy and coconut were two major commodities that witnessed fall in prices. In the case of paddy the fall in price was marginal (-1.49%), whereas the fall in price of coconut was so steep (22.47%) that it could wipe out the fortunes brought in by other commodities. The low levels of price of coconut, which prevailed throughout the year, had its fall out on agriculture income during the year, as the growth rate slipped back compared to the level achieved an year before. As a relief to the farmers, the Government of India declared a support price for copra for the 1994 season at Rs.2350 per quintal and procurement under this scheme

started in April 94. It continued till the 3rd week of November 1994 processing nearly 52000 tonnes of copra through Kerafed. Eventhough the procurement operations helped to avert further fall in prices and to stabilise more or less at the same levels by November 1994, the relative prices still continue to be lower than the price levels prevailed a year before and also lower than the prices of other commodities in comparative terms. It is important to note that the low levels of prices failed to generate more demand for the product, a failure of the basic economic principles. The reasons for this will have to be sought elsewhere.

3.8. Prices of paddy tend to decline especially during harvest seasons in the major paddy producing centres like Kuttanad and Palakkad due to poor market arrangements. During 1992-93 the PACS operating in these areas were motivated to organise procurement of paddy by offering an incentive of Rs.30 per quintal. The scheme also provides an additional amount of Rs.5 per quintal as incentive if the paddy is processed into rice and sold by the agency. The

scheme which was in operation in Alappuzha and Thrissur during 1992-93 was extended to Palakkad in 1993-94. During 1993-94, more than 18,000 MTs of paddy were procured under this scheme.

3.9. The monopoly procurement of cashew was reintroduced in 1993-94 and 20994

MTs of cashew nuts were procured. Market support was offered for pepper also and 2974 MTs of black pepper were procured by NAFED through MARKET FED @ Rs.33/Kg.

3.10 The trend of prices of important farm commodities is given in table 3.5.

Table 3.5
Average Farm Prices of Principal Crops

| Commodity | Unit | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | Change over Previous Year | % Change |
|-----------|--------------|---------|---------|---------|---------|---------|---------------------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Paddy | Rs./Qtl. | 290.47 | 299.61 | 374.77 | 420.88 | 414.53 | (-) 6.27 | (-) 1.49 |
| Tapioca | " | 138.67 | 150.68 | 158.16 | 187.34 | 197.60 | 10.26 | 5.48 |
| Coconut | Rs.100 Nos. | 203.81 | 301.23 | 393.31 | 420.14 | 325.72 | (-) 94.42 | (-) 22.47 |
| Pepper | Rs./Qtl. | 3415.06 | 3212.75 | 2918.06 | 2616.59 | 3909.02 | 1292.43 | 49.39 |
| Ginger | " | 2201.03 | 2528.02 | 2143.71 | 2490.50 | 2858.06 | 367.56 | 14.76 |
| Cashewnut | " | 1177.51 | 1379.90 | 2093.44 | 2000.41 | 2134.22 | 133.81 | 6.69 |
| Sugarcane | Rs./MT | 308.61 | 328.63 | 338.21 | 354.41 | 440.00 | 85.59 | 24.15 |
| Arecanut | Rs./100 Nos. | 14.27 | 26.40 | 31.22 | 33.01 | 33.65 | 0.64 | 1.94 |
| Banana, | " | 70.05 | 75.41 | 80.77 | 93.89 | 108.56 | 14.67 | 15.62 |

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

3.11. Fluctuation in prices particularly in the commercial crop sector is a regular phenomenon in Kerala. Remunerative prices is perhaps the best form of economic incentive for stability in production. Most of the agricultural commodities raised in Kerala do not come under the purview of the price support operations at the national level. Being high value agricultural commodities, Government intervention beyond a level is a difficult and costly proposition. The State may have to pursue a different line for price management by paying more attention for improvements in marketing. The farming community has to be regularly advised on product preparation, primary processing, supply management and direction of trade. With a view to monitor the national and international market sentiments on a regular basis and to advise the Government and the farming community on the strategies to be adopted from time to time, a State Prices Board has been set up by the State Government in 1994.

Public Distribution System

3.12 Public Distribution System (PDS) plays an important role in making available essential commodities and ensuring price stability. The public distribution system in Kerala is well within the reach of almost all households in the State through a well designed network of ration shops. This is quite important for a consumer state like Kerala deficient in food grains and other essential consumables.

3.13. As on 30-9-1994 there were 13,677 authorised retail outlets for the distribution of rationed articles. At present, a ration norm of 250 cards per outlet is adopted for sanctioning new retail outlets by de-linking the cards from existing nearby authorised retail distributors having more than 300 ration cards. Now, on an average, there is one outlet for every 405 card holders covering a population of about 2,072.

There were 55,33,221 ration cards as on 30-9-1994 covering a population of 2,83,39,429 with 2,28,06,776 adults and 55,32,653 non-adults as shown in Table 3.6.

3.14. The allotment of rice, wheat, sugar and kerosene from the central pool for the public distribution in the state for the year 1994 is given in the Table 3.7.

Table 3.6

Public Distribution System in Kerala - A profile: 1989 to 1994.

| Sl.No. | Items | Unit | 1989 | 1990 | 1991 | 1992 | 1993 | 1994* |
|--------|-----------------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1. | No. of ration cards and permits | | | | | | | |
| a. | Ration Cards for families | No. | 49,07,648 | 49,97,944 | 50,56,336 | 53,22,115 | 54,74,997 | 55,33,221 |
| b. | Ration permits for Institution | No. | 7,523 | 8,193 | 8,542 | 10,108 | 11,229 | 11,493 |
| 2. | No. of FCI Sub Depots | No. | 19 | 20 | 19 | 20 | 20 | 20 |
| 3. | No. of Wholesale shops | | | | | | | |
| a. | Co-operatives | No. | 47 | 47 | 50 | 49 | 49 | 51 |
| b. | Others | No. | 247 | 262 | 248 | 249 | 249 | 256 |
| c. | Total Wholesale shops | No. | 294 | 309 | 298 | 298 | 298 | 307 |
| 4. | No. of retail shops | | | | | | | |
| a. | Co-operatives | No. | 1,252 | 1,234 | 1,183 | 1,160 | 1,134 | 1,123 |
| b. | Others | No. | 11,653 | 11,745 | 11,831 | 11,983 | 12,1911 | 12,554 |
| c. | Total retail shops | No. | 12,905 | 12,979 | 13,014 | 13,143 | 13,325 | 13,677 |
| 5. | Quantity of coarse cloth allotted | -- | -- | -- | -- | -- | -- | -- |
| 6. | Sugar allotted | M.T. | 1,48,353 | 1,50,853 | 1,44,507 | 1,52,153 | 1,54,760 | 1,43,423 |
| 7. | Palm oil allotted | M.T. | 30,500 | 71,000 | 2,900 | -- | -- | -- |
| 8. | Kerosene allotted | K.L. | 3,21,575 | 3,38,462 | 3,44,446 | 3,41,086 | 3,42,972 | 3,21,998 |

* as on 30-9-1994.

Source: Directorate of Civil Supplies.

Table 3.7

Allotment of Rice, Wheat, Sugar and Kerosene oil during 1994

| Month | Rice (MT) | Wheat (MT) | Sugar (MT) | Kerosene (K.L) |
|-----------|-----------|------------|------------|----------------|
| January | 1,50,000 | 30,000 | 12081.8 | 28862 |
| February | 1,50,000 | 30,000 | 12556.8 | 29862 |
| March | 1,50,000 | 30,000 | 11306.3 | 28862 |
| April | 1,50,000 | 30,000 | 10708.7 | 28862 |
| May | 1,50,000 | 35,000 | 10708.7 | 28862 |
| June | 1,50,000 | 35,000 | 10708.7 | 28948 |
| July | 1,50,000 | 35,000 | 11958.7 | 28948 |
| August | 1,50,000 | 35,000 | 11958.7 | 28948 |
| September | 1,50,000 | 50,000 | 15558.7 | 28948 |
| October | 1,50,000 | 35,000 | 11958.7 | 31948 |
| November | 1,50,000 | 35,000 | 11958.7 | 28948 |
| December | 1,50,000 | 50,000 | 11958.7 | -- |
| Total | 18,00,000 | 4,30,000 | 143423.2 | 321998 |

Source: Directorate of Civil Supplies.

3.15 The government are closely monitoring the price situation and availability of all essential commodities. The meetings of the Food Advisory Committees at State, district, taluk and panchayat levels are being conducted regularly to monitor the price situation and distribution of essential commodities. Moreover, monitoring cells and surprise squads headed by District Collectors are conducting raids and surprise inspections in order to curb malpractice. People's Assembly (Janakeeya Sabha) along with Taluk Sabha is conducted to deal with grievances of the public sector officials who are attending to the complaints received in the Sabha.

3.16. The State Commission and 14 District Fora are functioning effectively to ensure the protection of consumer's interest and to pro-

vide an effective and speedy redressal to their complaints against unfair trade practices and defective goods. Out of 1,245 complaints filed, 811 complaints have been disposed of by the State Commission. Similarly, the Commission has also disposed of 1,306 appeal petitions out of the 2,593 petitions received. As regards the District Fora, a total number of 50,011 cases have been received and out of this 36,326 cases were disposed off.

3.17. With a view to providing food stuffs of good quality at reasonable rate, it was decided to open one Annapoorna Hotel each in every Assembly Constituency. At present 124 Annapoorna Hotels are functioning and action is in progress to open the remaining ones.

Table - 3.8

Distribution of Rice and Wheat through the Public Distribution System

| Month/Year | Rice | | | | | | Wheat | | | | | |
|------------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| January | 125000 | 199950 | 133509 | 133058 | 132201 | 145119 | 14691 | 19900 | 28564 | 20241 | 14362 | 16995 |
| February | 99999 | 125000 | 125622 | 157474 | 119231 | 90244 | 15360 | 19679 | 19950 | 23752 | 14470 | 15084 |
| March | 100000 | 123809 | 135850 | 154953 | 132886 | 77297 | 15659 | 18911 | 23722 | 17096 | 17123 | 18902 |
| April | 100000 | 121983 | 136108 | 135277 | 136900 | 73724 | 14891 | 15269 | 28966 | 22682 | 12586 | 16973 |
| May | 100000 | 124999 | 105786 | 153477 | 130125 | 79995 | 14868 | 19200 | 28632 | 20840 | 14910 | 20853 |
| June | 100000 | 125000 | 133584 | 154506 | 126017 | 91122 | 14999 | 19718 | 28409 | 28519 | 16846 | 22890 |
| July | 100000 | 134616 | 139959 | 166985 | 137251 | 98923 | 15000 | 20000 | 28140 | 26167 | 20069 | 26797 |
| August | 100000 | 154997 | 162013 | 175579 | 189578 | 110111 | 15000 | 19974 | 29480 | 25431 | 18620 | 26600 |
| September | 120000 | 132382 | 149840 | 171574 | 109698 | 111752 | 19044 | 19838 | 29993 | 16930 | 21380 | 26887 |
| October | 100000 | 136665 | 149520 | 138772 | 136340 | 82306 | 24847 | 19931 | 29983 | 27980 | 27401 | 33108 |
| November | 124986 | 139014 | 150000 | 132226 | 139837 | -- | 24879 | 19970 | 29994 | 24404 | 20882 | -- |
| December | 100000 | 130858 | 149607 | 130331 | 156755 | -- | 20000 | 19942 | 26873 | 17463 | 19982 | -- |
| Total | 1269985 | 1649273 | 1671398 | 1804212 | 1646819 | 960593 | 209238 | 232332 | 332706 | 271505 | 218630 | 225090 |

Source: Directorate of Civil Supplies

Wages

3.18 Consequent on the increase in the wholesale price index and consumer price index

the wage rate have also gone up during the year under review. While the wage rates of skilled and unskilled workers in agricultural sector rose by about 13% and 11% respectively, those in

construction sector increased by 11% and 9%. (see table 3.9 and 3.10). The wage rates of unskilled workers in the agricultural sector and construction sector also witnessed corresponding increase during the year. Details are given in Tables 3.11 and 3.12.

Table 3.9
Average Daily Wage Rates of Skilled Workers in Agricultural Sector

(Rupees)

| 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 | 10.62 |
| 1986-87 | 45.93 | 45.93 | 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 |
| 1990-91 | 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 |

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

Table 3.10
Average Daily Wage Rates of Unskilled Workers in the Agriculture Sector

(Rupees)

| Year | Average Daily wage rates of Paddy field workers | | | | % change over previous year |
|---------|---|-------|--------|-------|-----------------------------|
| | Male | | Female | | |
| | 1 | 2 | 3 | 4 | |
| 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 | 15.39 | |
| 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 | 17.68 | 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 | 15.68 | 23.73 | |
| 1992-93 | 48.40 | 32.31 | 16.97 | 23.70 | |
| 1993-94 | 54.26 | 35.49 | 12.11 | 9.84 | |

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

Table 3.11
Average Daily Wage Rates of Skilled Workers in the Construction Sector

(Rupees)

| Year | Carpenter | Mason | Rural | Urban |
|---------|-----------|-------|-------|-------|
| (1) | (2) | (3) | (4) | (5) |
| 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 | 53.00 | 54.00 | 54.00 | 54.00 |
| 1990-91 | 57.00 | 56.00 | 56.00 | 56.00 |
| 1991-92 | 60.00 | 61.00 | 59.00 | 61.00 |
| 1992-93 | 68.89 | 70.92 | 60.07 | 70.23 |
| 1993-94 | 73.57 | 76.51 | 72.75 | 75.98 |

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

Table 3.12
Average Daily wWges of Unskilled Workers in the Construction Sector

(Rupees)

| Year | Men | | Women | |
|---------|-------|-------|-------|-------|
| | Rural | Urban | Rural | Urban |
| 1. | 2 | 3 | 4 | 5 |
| 1981-81 | 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 | 34.15 | 34.94 | 26.88 | 28.26 |
| 1990-91 | 37.00 | 37.00 | 30.00 | 28.78 |
| 1991-92 | 39.71 | 41.63 | 31.64 | 34.32 |
| 1992-93 | 46.34 | 48.66 | 37.23 | 39.38 |
| 1993-94 | 50.36 | 52.85 | 40.89 | 42.80 |

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

CHAPTER - 4

AGRICULTURE

Recent trends in the State's agricultural output and income reveal that the period of stagnation witnessed in this vital sector during the decade prior to the beginning of the Eighth Five Year Plan has been successfully overcome, and that the agriculture sector has shown clear signs of growth. This is demonstrated by the higher growth in agriculture income recorded in 1992-93 and 1993-94 than what was achieved at the national level during these two years. The favourable weather conditions that prevailed during the last 3 years in succession combined with the efforts of the State Government on several aspects have helped the farm front to stage a strong recovery during these years. Even the shifts in cropping pattern from seasonal and annual food crops to perennial commercial crops has slowed down considerably compared to the previous years. Productivity of major crops like rice, coconut and rubber have attained new heights. Along with the improved performance of the crop sector, livestock and fisheries also performed exceedingly well during the period. Against the overall average growth rate of 2.75 percent projected for the Agriculture sector in the Eighth Plan the actual growth during 1992-93 was 6.6%. The provisional estimates of agricultural income for 1993-94, however indicate that though it was difficult to sustain this high degree of growth in the subsequent year, it was still higher than the growth achieved in the past.

Rainfall

4.1 Rainfall data pertaining to Kerala for the year 1994 shows that the State had the benefit of a bountiful and extensive rainfall for the year. The State is getting such an excellent rainfall for the first time during the course of last 10 years. Against the normal of 3047 mm the average rainfall received by the State during the year was 3497 mm, with above normal downpour in both the seasons. Compared to the previous years the temporal and spatial variations in the distribution of rainfall during the year had been lower. The promising feature of the rainfall pattern during 1994 was that there was near or above normal rain fall in all the 12 months. Data relating to the seasonwise departure from normal monthly

distribution trend and district-wise and monthwise rainfall are given in tables 4.1 to 4.3

Table 4.1

Percentage Departure of Rain fall

| Year | Annual | South West Monsoon | North East Monsoon |
|------|--------|--------------------|--------------------|
| 1 | 2 | 3 | 4 |
| 1983 | -73 | 2 | -33 |
| 1984 | -13 | -13 | -30 |
| 1985 | -8 | -17 | -26 |
| 1986 | -51 | -21 | -20 |
| 1987 | -55 | -31 | 30 |
| 1988 | -15 | -1 | -64 |
| 1989 | -30 | -9 | -18 |
| 1990 | -28 | -25 | -4 |
| 1991 | -39 | 18 | -21 |
| 1992 | -37 | 15 | 35 |
| 1993 | -08 | -12 | 32 |
| 1994 | 11 | 15 | 13 |

Source : Meteorological Centre, Thiruvananthapuram.

Agricultural income

4.2 The Agricultural economy of Kerala which was in a vacillating trend throughout the eighties moved to the track of steady improvement from 1990-91 onwards. The earlier indication as per the provisional estimate by the Directorate of Economics and Statistics in 1993 were that the growth rate in agricultural income for the years 1992-93 and 1993-94 would be around 10 per cent. Final estimates are yet to be available. But according to firm figures now available the growth rates have been projected as 6.66 per cent in 1992-93 and 3.37 per cent in 1993-94 (see table 4.4). It is for the first time during the course of last 15 years that the agricultural income has shown positive growth trends for 4 years in succession. The average for the two years 1992-93 and 1993-94 works out to 5.1 per cent which is more than double the target of 2.5 per cent annual

Table 4.2

Month-wise Distribution of normal rainfall and average rainfall for last 9 years (in mm)

| Month | Normal rainfall | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | Deviation from normal rainfall during 1994 |
|-----------|-----------------|--------|--------|------|------|------|------|--------|--------|---------|--|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
| January | 15.64 | 4.1 | 0.3 | 1 | 6 | 15 | 14 | 3.4 | 0.0 | 32.45 | +16.81 |
| February | 16.21 | 15.0 | 0.7 | 19 | 0 | 5 | 6 | 1.0 | 18.1 | 30.96 | +14.75 |
| March | 37.14 | 5.3 | 3.5 | 19 | 19 | 17 | 34 | 0.1 | 21.0 | 20.28 | -16.87 |
| April | 109.78 | 65.3 | 57.6 | 144 | 107 | 42 | 97 | 44.8 | 70.6 | 145.69 | +35.91 |
| May | 252.42 | 122.7 | 118.8 | 142 | 153 | 489 | 119 | 226.1 | 169.5 | 151.9 | -100.52 |
| June | 711.35 | 264.4 | 559.0 | 585 | 725 | 603 | 1084 | 813.3 | 688.8 | 836.2 | +124.85 |
| July | 720.71 | 318.2 | 187.8 | 608 | 577 | 652 | 837 | 802.3 | 804.6 | 940.99 | +220.28 |
| August | 433.31 | 349.7 | 394.2 | 427 | 354 | 349 | 471 | 503.6 | 293.2 | 478.91 | +45.60 |
| September | 248.57 | 261.7 | 150.7 | 498 | 294 | 106 | 50 | 296.5 | 91.7 | 205.84 | -42.73 |
| October | 297.28 | 156.3 | 261.2 | 76 | 313 | 326 | 291 | 318.4 | 442.7 | 448.47 | +151.19 |
| November | 162.71 | 200.8 | 214.3 | 79 | 87 | 174 | 100 | 338.7 | 169.1 | 163.73 | +1.02 |
| December | 42.35 | 8.9 | 91.6 | 25 | 7 | 2 | 3 | 4.8 | 49.3 | 42.47 | +0.12 |
| Total | 3047.87 | 1772.4 | 2039.7 | 1653 | 2642 | 2780 | 3106 | 3353 | 2818.6 | 3497.89 | +450.02 |
| Average | 253.98 | 147.7 | 169.98 | 221 | 220 | 232 | 259 | 279.41 | 234.9 | 291.49 | 37.50 |

Source : Meteorological Centre, Observatory, Thiruvananthapuram.

Table 4.3

District-wise Monthly rainfall in (mm) for 1994

| Sl No. | District | Jan. | Feb. | Mar. | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|--------|--------------------|------|------|------|-------|-------|--------|--------|-------|-------|-------|-------|------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| 1. | Thiruvananthapuram | 26.6 | 57.4 | 16.3 | 106.1 | 209.8 | 256.0 | 282.2 | 242.4 | 128.3 | 392.6 | 182.2 | 66.6 |
| 2. | Kollam | 36.6 | 43.5 | 43.0 | 170.0 | 306.6 | 540.5 | 476.9 | 376.6 | 213.4 | 479.6 | 216.3 | 60.0 |
| 3. | Alappuzha | 44.2 | 66.1 | 20.8 | 115.7 | 231.1 | 549.7 | 638.5 | 437.6 | 203.9 | 49.9 | 223.9 | 62.0 |
| 4. | Pathanamthitta | 34.3 | 68.0 | 45.5 | 142.3 | 281.1 | 507.3 | 593.0 | 404.4 | 168.4 | 664.7 | 242.3 | 62.0 |
| 5. | Kottayam | 49.9 | 94.6 | 33.6 | 212.6 | 175.6 | 680.8 | 629.8 | 533.0 | 198.6 | 448.2 | 187.8 | 54.9 |
| 6. | Idukki | 46.8 | 34.2 | 14.7 | 159.3 | 127.7 | 879.3 | 1028.1 | 639.0 | 330.6 | 448.8 | 182.2 | 52.2 |
| 7. | Ernakulam | 98.3 | 7.4 | 12.0 | 174.2 | 196.6 | 904.6 | 900.4 | 525.8 | 258.0 | 543.2 | 175.0 | 44.1 |
| 8. | Thrissur | 42.2 | 3.4 | 26.3 | 140.4 | 96.4 | 1042.7 | 1068.9 | 544.2 | 259.6 | 467.5 | 143.6 | 29.7 |
| 9. | Palakkad | 11.4 | 4.6 | 9.9 | 176.7 | 53.5 | 668.8 | 824.4 | 264.3 | 186.5 | 358.6 | 136.4 | 27.8 |
| 10. | Kozhikode | 1.0 | 0.0 | 23.6 | 237.4 | 97.3 | 1158.5 | 1413.8 | 527.1 | 179.9 | 449.3 | 157.5 | 35.6 |
| 11. | Malappuram | 6.9 | 0.8 | 19.6 | 184.7 | 82.9 | 823.6 | 1136.7 | 411.1 | 176.0 | 470.2 | 156.9 | 29.9 |
| 12. | Wayanad | 44.3 | 3.5 | 7.9 | 133.3 | 129.2 | 918.9 | 1256.6 | 390.8 | 208.7 | 286.0 | 99.5 | 23.5 |
| 13. | Kannur | 0.0 | 0.0 | 4.4 | 174.3 | 66.6 | 1315.3 | 1421.0 | 615.1 | 183.6 | 358.0 | 97.8 | 23.5 |
| 14. | Kasaragod | 0.5 | 0.0 | 6.3 | 89.3 | 72.2 | 1460.9 | 1503.5 | 793.3 | 185.6 | 380.0 | 90.8 | 22.9 |

Source : Meteorological Centre, Observatory, Thiruvananthapuram

growth projected for the Eight Plan for the sector. Such an impressive performance in the farm front has been made possible by the spectacular increase in the production of Coconut and Rubber. Despite favourable weather conditions crops like cashew could not sustain the same tempo of growth during 1993-94. The other important reason for the slowing down in the overall performance by the crop sector could be the sharp decline in the consumption of fertilizers consequent to the enormous increase in their prices.

Table 4.4

| Growth of agricultural income in Kerala | | | |
|---|---|--------------------|---|
| Year | Agricultural income in 1980-81 Prices (Rs. in Crores) | Rate of Growth (%) | Percentage contribution to State income |
| (1) | (2) | (3) | (4) |
| 1980-81 | 1293.84 | --- | 34.21 |
| 1981-82 | 1304.83 | 0.84 | 34.94 |
| 1982-83 | 1286.38 | -1.41 | 33.62 |
| 1983-84 | 1185.76 | -7.82 | 32.30 |
| 1984-85 | 1319.75 | 11.29 | 33.86 |
| 1985-86 | 1379.24 | 4.50 | 34.13 |
| 1986-87 | 1309.49 | -5.05 | 32.79 |
| 1987-88 | 1366.01 | 4.32 | 32.79 |
| 1988-89 | 1568.94 | 14.86 | 34.23 |
| 1989-90 | 1547.30 | -1.38 | 31.67 |
| 1990-91 | 1761.35 | 13.83 | 33.43 |
| 1991-92 | 1818.16 | 3.23 | 33.89 |
| 1992-93 | 1939.25 | 6.66 | 34.14 |
| 1993-94 | 2004.60 | 3.37 | 33.75 |

Source : Directorate of Economics & Statistics.

4.3 As a sequel to the liberalisation and globalisation process initiated at the national and international levels, agriculture and the related activities are bound to undergo several structural operational changes. With the regime of the World Trade Organisation coming into force new avenues for export promotion would be open to developing countries like India. The global agriculture along with its export trade is thus entering into a hitherto unexposed era of competition, where quality and cost consciousness would be the determinant factors for taking advantage of the export opportunities. Identification of products in which the country has a

relative advantage, selection of product line in tune with export markets, stipulation of quality standards and fostering of processing and export infrastructure are all vital for attaining this objective. Kerala being an important producer of exportable agricultural commodities need to pay immediate attention for reorienting its production support programmes to meet these requirements.

4.4 Making the production base competitive in an environment where the operational units are predominantly small in size as it exist in Kerala is rather difficult. At the same time Kerala has no option in this respect other than motivating and organising the small growers to meet the challenges through appropriate institutional arrangements, Kerala State cannot lose sight of this important aspect while planning for export promotion. This is particularly relevant in the emerging profile of the farm front in Kerala which has revealed further reduction in the average size of holding (from 0.36 ha. to 0.31 ha.) on the one hand and increasing dependence of work force on Agriculture for sustenance on the other hand. (Appendices 4.1, 4.2, 4.3 and Table 4.5)

Table 4.5

Sector-wise distribution of workforce (Nos. in Lakhs)

| Year | Agricultural Workforce | | | | |
|------|------------------------|-----------------|-------------|------------------------|-------|
| | Total Population | Total Workforce | Cultivators | Agricultural labourers | Total |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1961 | 169 | 56.30 | 11.78 | 9.78 | 21.56 |
| 1971 | 214 | 61.53 | 11.04 | 18.87 | 29.91 |
| 1981 | 254 | 67.91 | 8.87 | 19.17 | 28.04 |
| 1991 | 290 | 81.97 | 10.15 | 21.03 | 31.18 |

Source : Census 1991

Land Use

4.5 Data on Land Use Pattern in the State for 1993-94 are yet to be finalised. The latest estimates available for the year 1992-93 are presented in Table 4.6 & Fig. 4.1. The land use pattern shows that the land under cultivation constituted 57.9% of the total land area which was only marginally higher than the previous year's level of 57.86%. The area under forests remained stable at 27.83%. Compared to the previous year, area sown

Fig. 4.1
LAND UTILIZATION PATTERN IN KERALA
 (1993 - 94)

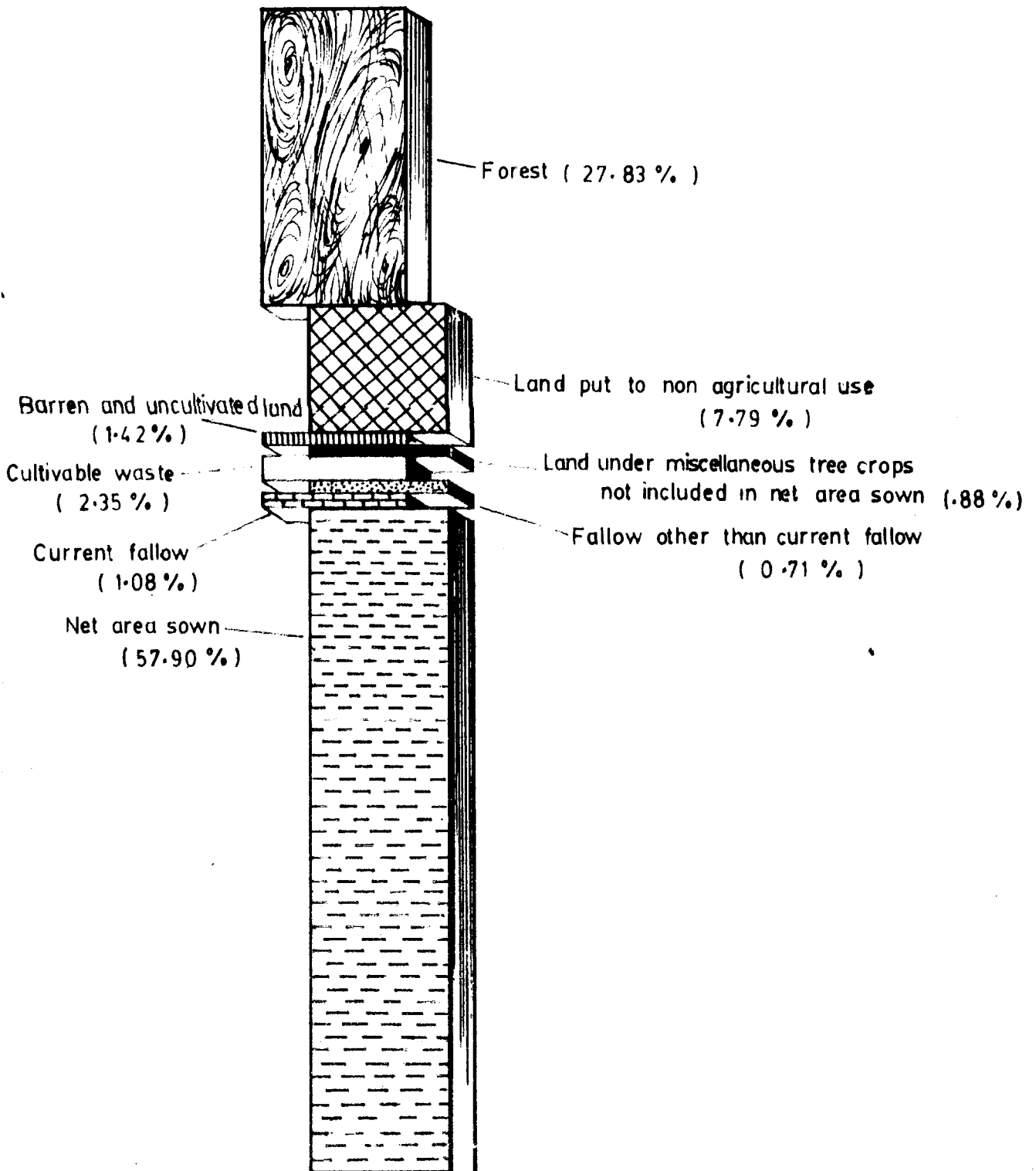


Table 4.6

Land Use Pattern in Kerala

(Area in Ha.)

| Sl. No. | Classification of land | 1991-92 | | 1992-93 | | Change in area between 1991-92 and 1992-93 | % Change |
|---------|---|---------|--------|---------|--------|--|----------|
| | | Actual | % | Actual | % | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1. | Total Geographical area | 3885497 | 100.00 | 3885497 | 100.00 | --- | 0 |
| 2. | Forest | 1081509 | 27.83 | 1081509 | 27.83 | --- | 0 |
| 3. | Land put to non-agricultural uses | 301371 | 7.76 | 302798 | 7.79 | 1427 | 0.004 |
| 4. | Barren and Uncultivated land | 55136 | 1.42 | 55229 | 1.42 | 93 | 0.17 |
| 5. | Permanent Pastures and Grazing land | 1779 | 0.05 | 1699 | 0.04 | -80 | 4.50 |
| 6. | Land under miscellaneous tree crops not included in net area sown | 34294 | 0.88 | 34054 | 0.88 | -240 | 0.70 |
| 7. | Cultivable waste | 92792 | 2.39 | 91233 | 2.35 | -1559 | 1.68 |
| 8. | Fallow other than current fallow | 26728 | 0.69 | 27404 | 0.71 | 676 | 2.53 |
| 9. | Current fallow | 43921 | 1.13 | 41978 | 1.08 | -1943 | 4.42 |
| 10. | Net area sown | 2247967 | 57.86 | 2249593 | 57.90 | 1626 | 0.07 |
| 11. | Area sown more than once | 773149 | 19.90 | 796878 | 20.51 | 23729 | 3.07 |
| 12. | Total cropped area | 3021116 | 77.75 | 3046471 | 78.41 | 25355 | 0.84 |
| 13. | Cropping intensities | 134.39 | --- | 135.42 | --- | --- | 1.03 |

Source : Directorate of Economics & Statistics

more than once increased by 23729 ha. and consequently the cropping intensity rose to 135.42% as against the previous year's estimate of 134.39%. Major highlights of the emerging land use pattern in Kerala include sustenance of the forest cover without reduction and progressive reduction in "cultivable waste" (-1559 ha.) and "current fallows" (-1943 ha.). Along with forest cover, the percentage of land put to agriculture works out to 85.7% which is perhaps the highest for a State in the country. Land

being a scarce resource in Kerala, urgent measures are necessary for bringing atleast under farm forestry all possible lands remaining unutilised under the categories of barren and uncultivable land (55229 ha.), cultivable waste (91233 ha.) and fallow other than current fallow (27404 ha.).

4.6 Trend of area, production and productivity of important crops in Kerala during 1992-93 and 1993-94 are given in table 4.7.

Table 4.7

Area, Production and Productivity of Principal Crops in Kerala.
(Are in Ha, Production in tonnes and Productivity in Kg/ha)

| Sl. No. | Crops | Area | | | | Production | | | | Productivity | | | | | | |
|---------|-----------------------|---------|---------|----------|-----------------------------|------------|---------|---------|----------|--------------|---------|----------|-----------------------------|--------|------|--------|
| | | 1992-92 | 1992-91 | 1993-94* | % Change over previous year | 1992-92 | 1991-92 | 1992-93 | 1993-94* | 1991-92 | 1992-93 | 1993-94* | % Change over previous year | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 1. | Rice | 541327 | 537608 | 530332 | -7276 | -1.35 | 1060350 | 1084878 | 1072509 | -12369 | -1.14 | 1959 | 2018 | 2022 | -4 | 0.02 |
| 2. | Jowar | 5152 | 5935 | 5544 | -391 | -6.59 | 2623 | 3021 | 2822 | -199 | -6.51 | 509 | 509 | 509 | 0 | 0 |
| 3. | Ragi | 1635 | 1706 | 1587 | -119 | -6.3 | 1323 | 1380 | 1388 | 8 | -0.58 | 809 | 909 | 875 | 66 | 8.15 |
| 4. | Other Millets | 1936 | 2629 | 1936 | -693 | -26.3 | 1505 | 2044 | 2055 | 11 | -0.54 | 777 | 777 | 1061 | 284 | 36.55 |
| 5. | Pulses | 22921 | 23123 | 20363 | -2760 | -11.9 | 16185 | 17070 | 15898 | -1172 | -6.87 | 706 | 738 | 781 | 43 | 5.83 |
| 6. | Sugar Cane | 6237 | 6100 | 5551 | -549 | -9.00 | 42822 | 49874 | 44792 | -5082 | -10.19 | 6866 | 8176 | 8069 | 107 | 1.30 |
| 7. | Pepper | 178126 | 183478 | 177848 | -5630 | -3.07 | 50309 | 49666 | 50367 | +701 | 1.41 | 282 | 271 | 283 | +12 | +4.43 |
| 8. | Chillies | 531 | 521 | 545 | 24 | 4.66 | 526 | 520 | 530 | 10 | 1.92 | 991 | 998 | 972 | -26 | -2.60 |
| 9. | Ginger | 15400 | 13937 | 15331 | 1394 | 10.00 | 4543 | 45403 | 50411 | 5008 | 11.03 | 3265 | 3258 | 3288 | +30 | +0.92 |
| 10. | Turmeric | 2738 | 2938 | 2737 | -201 | -6.84 | 5662 | 5662 | 5324 | -338 | -5.97 | 1910 | 1927 | 1945 | 18 | -0.93 |
| 11. | Betelnuts | 63437 | 63929 | 63785 | -144 | -0.22 | 131161 | 136431 | 135791 | -64 | -0.470 | 20675 | 213409 | 212887 | -522 | -0.24 |
| 12. | Banana | 22602 | 25667 | 23458 | -2209 | -8.61 | 303620 | 308871 | 305641 | -3230 | -1.05 | 13410 | 12034 | 13029 | 995 | 8.26 |
| 13. | Other plantains | 42467 | 44290 | 44042 | -248 | -0.56 | 211186 | 211186 | 217151 | 5965 | 2.82 | 4552 | 4768 | 4931 | 103 | 3.42 |
| 14. | Cashewnut | 112059 | 109035 | 108610 | -425 | -0.39 | 104601 | 95623 | 75583 | -20040 | -20.96 | 933 | 877 | 696 | -181 | -20.64 |
| 15. | Tapioca | 141881 | 135033 | 137636 | 2603 | 1.93 | 2657865 | 2629127 | 2596612 | -32515 | -1.24 | 18733 | 19470 | 18866 | -604 | -3.10 |
| 16. | Sweet Potato | 2457 | 2492 | 2369 | -123 | -4.93 | 19951 | 20323 | 19728 | -595 | -2.92 | 5120 | 8155 | 8328 | 173 | 2.12 |
| 17. | Ground nut | 14041 | 15535 | 14788 | -747 | -5.05 | 10436 | 11546 | 10749 | -797 | -6.90 | 743 | 743 | 727 | -16 | -2.15 |
| 18. | Sesamum | 9006 | 8012 | 7964 | -48 | -4.81 | 19861 | 1696 | 2041 | 345 | 20.4 | 221 | 212 | 256 | 44 | 20.75 |
| 19. | Coconut* | 863061 | 877012 | 881642 | 4630 | 0.53 | 46411 | 51241 | 53861 | 462 | 9.01 | 53771 | 5843 | 63336 | 493 | 8.44 |
| 20. | Cotton | 11922 | 12253 | 11922 | -331 | -2.70 | 19242 | 19776 | 19212 | -564 | -2.85 | 1614 | 1614 | 1611 | -3 | -0.19 |
| 21. | Tobacco | 204 | 164 | 138 | -26 | -15.85 | 382 | 317 | 345 | 28 | 8.83 | 1873 | 1933 | 2500 | 567 | 29.33 |
| 22. | Coffees* | 84016 | 84016 | 84016 | 0 | 0 | 30960 | 25000 | 38000 | 13000 | 52.00 | 369 | 298 | 452 | 154 | 51.68 |
| 23. | Tea* | 34708 | 34719 | 34858 | 139 | 0.40 | 66803 | 55136 | 60691 | 5555 | 10.08 | 1925 | 1588 | 1741 | 153 | 9.63 |
| 24. | Rubber* | 425768 | 428864 | 437100 | 8236 | 1.92 | 343109 | 368648 | 408311 | 39663 | 10.76 | 1139 | 1164 | 1228 | 64 | 5.50 |
| 25. | Cardamom [†] | 43670 | 43388 | 43459 | 71 | 0.16 | 3450 | 2570 | 4430 | 1860 | 72.37 | 79 | 59 | 102 | 43 | 72.88 |

* from UPASI

* provisional

* production in million nuts, productivity in nuts/ha.

* in million nuts.

* based on Forecasts Report

* Source - Rubber Board

* Source - Spices Board

Source : Directorate of Economics & Statistics

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Area Under Crops

4.7 Quite contrary to the national scenario, food crops have a lower coverage in Kerala. The share of food crops in the total cropped area of 30.46 lakh ha. reported for 1992-93 was only 22.88%. They include cereals and millets (5.39 Lakh ha.), pulses (0.20 lakh ha.) and tapioca (1.38 lakh ha.) Kerala Agriculture had been undergoing a structural transformation from annual and seasonal foodcrops like rice and tapioca to perennial cash crops like coconut and Rubber. The shift in cropping pattern which was persistent throughout the last one and a half decades is still continuing even though the degree of reduction in the area under food crops has come down considerably. Against the average annual reduction of around 25000 ha. in the area under rice recorded till the end of Eighties, the estimates for 1992-93 and 1993-94 are only 3719 and 7276 ha. respectively. Area under tapioca on the other hand has recorded an increase of 2603 ha. against the reduction of 6848 ha. observed during the previous year. The area under tapioca which reached a peak level of 3.26 lakhs ha. during 1975-76 was continuously losing the coverage since then resulted in a sharp decline to 1.35 lakh ha by 1992-93 a considerable loss of about 1.9 lakh ha. For the first time during the last Seventeen years the area under tapioca has shown marginal increase.

4.8 As a result of the shift in cropping pattern, commercial crops like Rubber and Coconut have witnessed substantial increase in area coverage. The increase in area under Rubber during the last one and a half decades has been nearly 2 lakh ha. and the trend is continuing. The increase in area during 1993-94 was 8236 ha. This was low compared to the average annual expansion of around 12000 ha. recorded in the past. Area expansion under coconut on the other hand gathered momentum only in the second half of eighties. The increase in area during 1993-94 was only 4630 ha. against 13951 ha. during 1992-93. The slow down in the degree of reduction in the area under food crops combined with the deceleration observed in the trend for expansion of area under commercial crops corroborates the view that the cropping pattern is slowly re-establishing the position it once enjoyed. Crops which show negative trends as per provisional estimates for 1993-94 include Pepper (- 5630 ha.), Arecanut (- 144 ha.) and Banana (-2209 ha.).

Production of Major Crops

4.9 Commercial crops in general with the exception of cashew present a very impressive performance during 1993-94. Coconut, Pepper & Rubber which together account for over 66 percent of the net cropped area in the State witnessed new heights in production during 1993-94. Among the other commercial crops Ginger (5008 tonnes), chillies (10 tonnes), Plantain (5965 tonnes), Sesamum (345 tonnes), Cardamom (1860 tonnes) and Coffee (13000 tonnes) recorded increase in production while Sugarcane (-5082 tonnes), turmeric (- 338 tonnes), arecanut (-64 million nuts), banana (-3230 tonnes), Cashew (-20040 tonnes) and Groundnut (-797 tonnes) declined. In the case of rice the provisional estimates for 1993-94 reveal that it was difficult to sustain the production levels achieved in 1992-93. Production of rice during 1993-94 (10.72 lakh tonnes) was marginally lower than 1992-93 (10.84 lakh tonnes). Among the food crops pulses continue to record fall in production (-1172 tonnes) consequent to the drop in area (-2760 ha.). Likewise the production of tapioca could not be sustained during 1993-94 because of the drop in productivity. Production of cashew declined substantially by 21% during the year.

Productivity of Principal Crops in Kerala

4.10 According to the provisional estimates for 1993-94 almost all the important crops such as rice, pulses, pepper, ginger, turmeric, cardamom, banana and plantain, sweet potato, sesamum, coconut, tea, coffee and rubber are expected to improve their performance in the productivity. Rice crop could sustain its positive trend in productivity during 1993-94 as well while coconut could further improve its productivity by another 493 nuts per ha. (+8%) an all time high in productivity recorded in Kerala. The productivity of rubber which was steadily improving during the last two decades scaled a new peak during the year. Sugarcane, Cashew, Arecanut, Tapioca and Groundnut are the few crops in which case there is the likelihood of decline in productivity. In respect of sugarcane, arecanut, tapioca and groundnut also a marginal drop in productivity is anticipated. Cashew is thus the only crop where sharp decline in productivity has been projected. This is possibly due to the wide spread damage caused by the attack of tea mosquito. Even though majority of

our commercial crops are on the path of revival in productivity after a prolonged period of stagnation, the fact remains that many of them are still lingering under low levels of output. This is particularly so in the case of export oriented commodities like pepper, ginger, cardamom, cashewnut, coffee and tea. Low productivity is a constraint as well as deterrent as both supply and cost are adversely affected.

Index of Area, Production & Productivity of Crops

4.11 The indices of area, production and productivity of major categories of crops for the last 3 years are given in Table 4.8. The index of overall production which was 100.17 for the triennium ending 1978-79, continued to increase in 1993-94 as well to 142.19. It was 132.67 for 1992-93. Keeping with the popular perception the area index shows more or less a stagnating trend with 104.03 for 1991-92, 104.19 for 1992-93 and a marginal decline 103.46 in 1993-94. The productivity index was on the increase from 111.14 in 1991-92 to 114.94 in 1992-93 and 121.43 in 1993-94. All these trends corroborate the view that further growth of the State's agriculture is possible only through vertical growth.

4.12 The area index for foodgrains continued to decrease from 67.22 in 1991-92 to 67.00 in 1992-93 and to 64.61 in 1993-94. Production index for foodgrains which had increased from 82.46 in 1991-92 to 84.47 in 1992-93 declined to 83.42 in 1993-94. However the productivity index for foodgrains continued to increase from 122.61 in 1991-92 to 126.10 in 1992-93 and 128.84 in 1993-94. Among foodgrains, though both cereals and pulses recorded continuous improvement in productivity, area index and consequently the production index decreased in 1993-94 over that in 1992-93. The decline in area index of cereals was from 67.10 in 1992-93 to 64.95 in 1993-94 and that of pulses was from 64.72 in 1992-93 to 57.00 in 1993-94. Production indices decreased from 84.35 in 1992-93 to 83.38 in 1993-94 in the case of cereals and from 92.40 in 1992-93 to 86.06 in 1993-94 in the case of pulses.

4.13 The indices of area, production and productivity of non-foodgrains as a whole showed increasing trend over the years. The area index increased from 101.00 in the base period to 120.96 in

1991-92, 121.30 in 1992-93 and 121.34 in 1993-94. The production index increased from 138.44 in 1991-92 to 143.85 in 1992-93 and 155.81 in 1993-94. Decline in productivity was shown only by fruits and vegetables from 93.61 in 1992-93 to 92.06 in 1993-94 and by miscellaneous crops from 76.52 in 1992-93 to 70.21 in 1993-94. This decline is also reflected on the production indices of these crops. Plantation crops, Oil seeds and condiments and spices have recorded impressive growths in production indices.

Performance of Major Crops

Rice

4.14 Rice the principal food crop of Kerala has been subjected to persistent pressure for replacement by other more remunerative crops during the last one and half decades. The crop which had a coverage of around 8.75 lakh ha. in the mid of seventies suffered severe set back in area resulting in a total loss of more than 3 lakh ha. over a period of 15 years. Eventhough the productivity of the crop was continuously rising during the period, the improvement in productivity was not adequate enough to compensate the loss in production on account of the steep fall in area. Rice cultivation was becoming less and less attractive as a result of the enormous increase in the cost of production, without commensurate increase in the product prices. Rice cultivation was thus passing through a crisis situation during this period. Eventhough there is justification for switch over from rice to more remunerative crops from the point of view of income the State cannot lose sight of the adverse consequences of such an unregulated shift can have on the availability of food employment support and ecological balance. The group farming programme introduced in 1989 with the objective of arresting the declining trend in area through reduction in cost by organising the cultivation on a group basis also failed to bring about the desired impact. The hike in fertilizer prices announced by Government of India as part of decontrol of phosphatic and potassic fertilizers also adversely affected the production of this crop. It is under such a very volatile situation that the State Government launched a very massive scheme for infrastructural development by supporting 85 per cent of the investment. The resources required for the purpose were mobilised by pooling the special assistance made available under the Prime Minister's Programme in lieu of hike

Fig. 4.2
AREA PRODUCTION AND PRODUCTIVITY OF
RICE IN KERALA

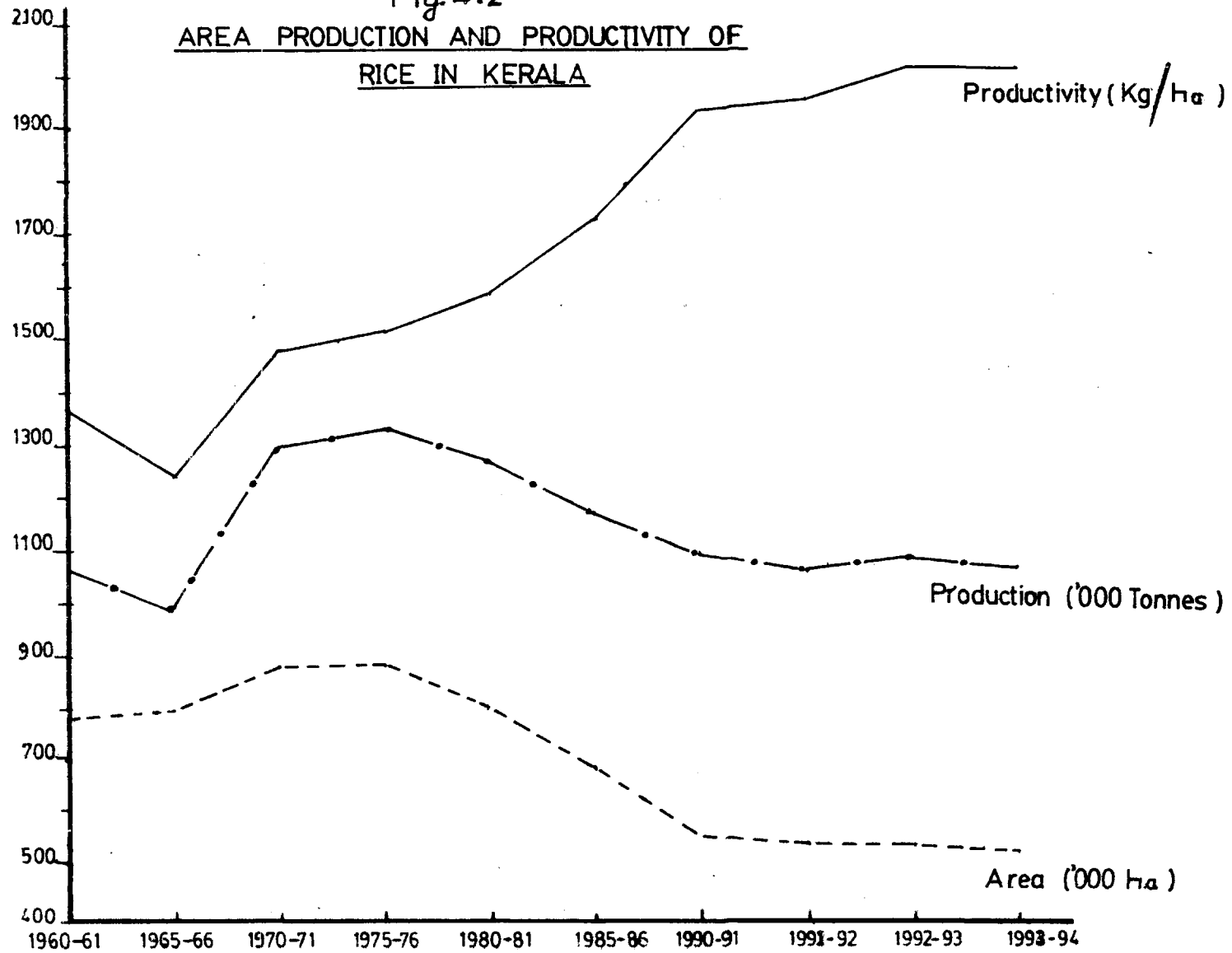


Table 4.8

Index of Area, Production and Productivity of Crops in Kerala
Base average of Triennium ending 1979-80

| Sl. No. | Crops | Area | | | | Production | | | | Productivity | | | |
|---------|--------------------------|---------------------------------------|---------|---------|---------|---------------------------------------|---------|---------|---------|---------------------------------------|---------|---------|---------|
| | | Average of 3 years 1976-77 to 1978-79 | 1991-92 | 1992-93 | 1993-94 | Average of 3 years 1976-77 to 1978-79 | 1991-92 | 1992-93 | 1993-94 | Average of 3 years 1976-77 to 1978-79 | 1991-92 | 1992-93 | 1993-94 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | All Crops | 101.48 | 104.03 | 104.19 | 103.46 | 100.17 | 127.90 | 132.67 | 142.19 | 98.71 | 111.14 | 114.94 | 121.43 |
| A. | Food Grains (1 + 2) | 102.55 | 67.22 | 67.00 | 64.61 | 98.67 | 88.46 | 84.47 | 83.42 | 96.22 | 122.61 | 126.10 | 128.84 |
| | 1. Cereals | 102.59 | 67.36 | 67.10 | 64.95 | 98.85 | 82.39 | 84.35 | 83.38 | 96.35 | 122.40 | 125.84 | 128.49 |
| | 2. Pulses | 101.53 | 64.15 | 64.72 | 57.00 | 87.06 | 87.60 | 92.40 | 86.06 | 85.25 | 136.58 | 142.70 | 151.06 |
| B. | Non Food Grains (3 to 8) | 101.00 | 120.96 | 121.30 | 121.34 | 100.52 | 138.44 | 143.85 | 155.81 | 99.52 | 108.48 | 112.35 | 119.71 |
| | 3. Oil Seeds | 101.66 | 127.26 | 129.34 | 129.90 | 103.48 | 148.67 | 164.11 | 178.80 | 101.79 | 118.11 | 125.37 | 135.78 |
| | 4. Plantation Crops | 95.04 | 175.30 | 175.22 | 175.27 | 93.84 | 194.74 | 211.52 | 237.80 | 98.74 | 116.40 | 120.30 | 137.31 |
| | 5. Condiments & Spices | 100.05 | 127.65 | 129.45 | 127.56 | 89.40 | 148.77 | 132.32 | 152.28 | 88.82 | 111.92 | 108.32 | 114.31 |
| | 6. Drugs & Narcotics | 82.29 | 77.83 | 32.66 | 32.27 | 89.54 | 36.58 | 29.82 | 31.40 | 108.85 | 53.67 | 104.52 | 115.82 |
| | 7. Fruits & Vegetables | 103.20 | 81.40 | 79.70 | 79.63 | 105.94 | 88.32 | 87.02 | 83.32 | 102.65 | 91.45 | 93.61 | 92.06 |
| | 8. Miscellaneous Crops | 103.59 | 148.26 | 141.77 | 139.21 | 98.02 | 106.87 | 120.58 | 110.44 | 94.62 | 08.35 | 76.52 | 70.21 |

in fertilizer prices as well as deploying all funds available for input subsidies under the ongoing group farming programme. Group Farming Samithies were helped in identifying location specific infrastructural works that could augment the productivity and stabilise the crop. Areas having potential for additional cropping were given higher priority. Implementation of the programme was entirely through the Group Farming Samithies and beneficiaries' committees. The State could take up 1244 works involving an estimated cost Rs. 58.48 crores during 1992-93 and 1993-94. Likewise the State could revive the Kole Land Development Programme which almost came to a grinding halt and launch special programmes for Kari land, Wayanad and similar areas with special problems. All these special efforts appear to have helped in raising new hopes and optimism in the rice production front.

4.15 Data on area, production and productivity of the crop during the recent past (Table 4.8 & Fig 4.2) reveal that the degree of reduction in rice area has come down considerably during 1992-93 and 1993-94. Against the average reduction of around 25000 ha. per year recorded during the last one decade the fall in area during 1992-93 was only 3700 ha. Although it has increased to 7270 ha. during 1993-94 it still accounts for only 1/3 of the rate of

decline in the past. The state could also sustain its increasing trend in productivity during 1992-93 and 1993-94. The average productivity of 2022 per Kg. recorded for 1993-94 is nearly 15 percent higher than the national average of 1744 estimated for 1992-93. Despite all these positive features emerging in the rice scenario of Kerala it may not be correct to conclude that all is well with rice cultivation in the State. The fact that the State could not even maintain the 1992-93 level of production, (10.84 lakh tonnes) during 1993-94 inspite of huge investment for infrastructural support is a pointer to the need for consolidating the activities with renewed efforts.

4.16 The recent performance of rice crop at the national level shows that the shift from paddy to other remunerative crops is not a phenomenon singular to Kerala. Reduction in area under rice has been observed in the recent past in other important producing states like Andhra Pradesh, Bihar, Gujarat, Madhya Pradesh, Maharashtra & Punjab. This is not a consolation for States like Kerala with huge food deficit and need to pay more attention in conserving the existing area under rice for ensuring food security. (Data on national production comparing it to Kerala are given in table 4.9)

Table 4.9

Area, Production and Productivity of Rice in Kerala & India

| Year | Area ('000 ha.) | | Production ('000 tonnes) | | Productivity (Kg/ha) | |
|----------|-----------------|-------|--------------------------|-------|----------------------|-------|
| | Kerala | India | Kerala | India | Kerala | India |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1985-86 | 678.281 | 41137 | 1173.051 | 63825 | 1729 | 1552 |
| 1989-90 | 583.388 | 42690 | 1141.231 | 74290 | 1956 | 1740 |
| 1990-91 | 559.450 | 42640 | 1086.578 | 74680 | 1942 | 1751 |
| 1991-92 | 541.327 | 42649 | 1060.350 | 74678 | 1959 | 1751 |
| 1992-93 | 537.608 | 41637 | 1084.878 | 72610 | 2018 | 1744 |
| 1993-94* | 530.332 | N.A. | 1072.509 | N.A. | 2022 | N.A. |

Source : Directorate of Economics & Statistics
Directorate of Rice Research, Hyderabad
* Provisional

4.17 Sustaining paddy cultivation in Kerala is a formidable task. Past experience with the group farming programme suggests that neither input subsidies nor infrastructural support perse can bring about sustainable change in area & production. The ultimate solution lies in improving the economics of rice production through a multi-pronged approach combining minor irrigation, selective mechanisation, scientific crop and water management, judicious nutrient and timely pest management. Applied research on emerging technologies like hybrid rice and operational projects for integrated pest management are also equally important.

Season-wise performance

4.18 Seasonwise area, production and productivity of rice during the last 3 years are given in table 4.10. Decline in area was largely in the Virippu season (-5075 ha.) followed by Punja season (-2362 ha.). The trend was just the reverse during the previous year with Mundakan season bearing almost the entire shift in area. Ironically the productivity of rice is relatively better during these seasons the highest being in the punja season (2212 Kg/ha.) closely followed by Virippu (2008 Kg/ha.). All these disturbing trends substantiate the view that rice cultivation in Kerala has not yet acquired the required resilience.

Table 4.10

Seasonwise, area, production and productivity of rice in Kerala
(Area in ha. production in tonnes and productivity in Kg/ha.)

| Season | Area | | | Production | | | Productivity | | |
|------------|---------|---------|---------|------------|---------|---------|--------------|---------|---------|
| | 1991-92 | 1992-93 | 1993-94 | 1991-92 | 1992-93 | 1993-94 | 1991-92 | 1992-93 | 1993-94 |
| Virippu | 218767 | 218751 | 213676 | 401610 | 435794 | 429018 | 1835 | 1992 | 2008 |
| Mundakan | 253981 | 244096 | 244257 | 507525 | 476748 | 483340 | 1998 | 1953 | 1979 |
| Punja | 68579 | 74761 | 72399 | 151215 | 172336 | 160151 | 2205 | 2305 | 2212 |
| All season | 541327 | 537608 | 530332 | 1060350 | 1084878 | 1072509 | 1959 | 2018 | 2022 |

Figure for 93-94 are provisional

Source : Directorate of Economics and Statistics

High Yielding Variety Coverage

4.19 Data on high yielding variety coverage during 1993-94 reveal that the increasing trend observed during the last four years could not be sustained. The coverage was lower by 2678 ha. in 1993-94. By the end of 1993-94 only 1.72 lakh ha. out of 5.30 lakh ha. was under high yielding varieties which accounts for about 34 percent. Maximum coverage of high yielding varieties was in the Punja season (71.30%) followed by Viruppu (35.94%). The lowest was in the Mundakan season (21.62%). The average productivity of high yielding varieties

during 1993-94 was 2157 Kg/ha. which again was lower than the level of 2280 Kg/ha. achieved in 1992-93. It is important to note that productivity declined during all the 3 seasons, namely (-) 133 Kg. in Viruppu season, (-) 123 Kg in Mundakan season and (-) 194 Kg. in the Punja season. This implies that the high yielding varieties are not receiving the needed attention and scientific management for securing optimal productivity as there still exists a wide gap between potential yields as established in experimental farms and those actually realised under field conditions. Trend of HYV coverage during the last ten years is given in Table 4.11.

Table 4.11
Coverage of HYV rice in Kerala 1981-82 to 1993-94

| Year | Coverage in HYV (ha.) | | | | Percentage to total coverage in HYV area under rice | | | |
|----------|-----------------------|--------|--------|--------|---|--------|--------|-------|
| | Autumn | Winter | Summer | Total | Autumn | Winter | Summer | Total |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1983-84 | 101810 | 62063 | 48477 | 212350 | 47.94 | 29.23 | 22.83 | 100 |
| 1984-85 | 112400 | 63687 | 44452 | 220539 | 50.97 | 28.88 | 20.15 | 100 |
| 1985-86 | 83782 | 40650 | 38846 | 163278 | 51.31 | 24.90 | 23.79 | 100 |
| 1986-87 | 80076 | 44604 | 41253 | 165933 | 48.26 | 26.88 | 24.86 | 100 |
| 1987-88 | 54760 | 33763 | 31311 | 119744 | 45.70 | 28.20 | 26.10 | 100 |
| 1988-89 | 62354 | 37971 | 36691 | 137016 | 45.52 | 27.71 | 26.77 | 100 |
| 1989-90 | 78997 | 36910 | 39718 | 155625 | 50.80 | 23.70 | 25.50 | 100 |
| 1990-91 | 80025 | 40005 | 42786 | 162816 | 49.15 | 24.57 | 26.28 | 100 |
| 1991-92 | 73304 | 49745 | 43287 | 166336 | 44.07 | 29.91 | 26.02 | 100 |
| 1992-93 | 78090 | 45417 | 51589 | 175096 | 44.60 | 25.93 | 29.46 | 100 |
| 1993-94* | 73243 | 51192 | 47983 | 172418 | 42.48 | 29.69 | 27.83 | 100 |

Source : Directorate of Economics and Statistics

* Provisional

Production Programmes for rice

4.20 Sustaining the area under rice cultivation by arresting the shift from the crop was one of the major strategies approved under the Eight Plan. Promotion of group farming activity supported by infrastructural development and a technological package of services that would make rice cultivation more remunerative had been accepted as the major programme for attaining this objective. Group farming samithies constituted for the purpose were given financial assistance for taking up long term improvements in padasekharams for augmenting productivity. The scheme was modified during 1993-94 restricting the assistance to infrastructural works aimed at permanent improvement in productivity. The assistance made available by Government of India under the Prime Minister's Programme was also dovetailed into the Group Farming Programme. Thus during the period there was a shift in emphasis from input to infrastructure and accordingly 1244 works identified by the Group Farming Samithies

with an estimated cost of Rs. 58.48 crores were taken up. The execution of the works were through beneficiary committees. So far 183 works were completed and about 756 works are in different stages of execution. It is anticipated that on completion of these programmes would help to obtain additional crop in 40,000 ha. The Centrally Sponsored Scheme for Integrated rice development which was extended to all the districts of Kerala has also come in handy for supplementing the efforts towards development of rice.

4.21 Farm Mechanisation is another area given emphasis during the Eighth Plan. During the last two years 1348 power tillers and 980 threshers were supplied with 85% subsidy under the Prime Minister's Programme. The programme is being continued under State plan with an outlay of Rs. 2.50 crores. The details of the development support given to rice through the different schemes are presented in Table 4.12.

Table 4.12

Details of Development Support given for Rice Production

| Sl. No. | Name of Scheme | Activities supported | 1992-93 | 1993-94 |
|---------|---|--|---|---|
| (1) | (2) | (3) | (4) | (5) |
| 1. | Group Farming for Rice Production | a. Community nurseries b. Distribution Weedicides i. Solid ii. Liquid iii. Granules c. Area covered under plant protection d. Distribution of Sprayers protection e. Distribution of Power tillers f. Distribution of Tractors g. Distribution of Petty & Para h. Pump Set i. Soil Ameliorants j. No. of Threshers distributed | 19619 ha. 20052 Kg 15064 Ltrs. 1832 Kg. 109091 ha. 3921 Nos. 175 Nos. 117 Nos. 45 Nos. 4300 Nos 2731 MT 25 | Infrastructure Development and works in conjunction with Prime Minister's Programme Powertillers 1048 Nos. Threshers 965 Nos. Works 350 Nos. |
| | Targets (Rs. lakhs) | | 600.00 | 800.00 |
| | Expenditure (Rs. in lakhs) | | 639.69 | 1107.99 |
| 2. | Seed Programme for Food crops through group farming samithies/service Co-operatives. Target (Rs. in lakhs) Expenditure (Rs. in lakhs) | a. Registered seed growers programme (ha.) b. Paddy seeds distribution(MT) | 1817 2866 100.00 97.67 | 1517 2955 200.00 202.45 |
| 3 | Integrated programme for rice development (CSS 25% later 75%) | a. Certified seeds distributed (Qtls.) b. PP Equipments distributed (Nos.) c. Power tillers (Nos.) d. Area covered under herbicide use (ha.) e. Area covered under pesticide use (ha.) | 10627 5339 408 15939 44127 | 24660 6954 274 16000 44246 |
| | Target (Rs. in lakhs) | | 42.00 | 100.00 |
| | Expenditure (Rs. in lakhs) | | 41.46 | 20.84 |
| 4. | Minikit of rice (100% CSS) Targets (Rs. in lakhs) Expenditure (Rs. in lakhs) | No. of kits distributed (Nos.) | 4992 10.00 1.34 | 3765 2.00 0.91 |
| 5. | Development of rice in areas with special problems. Targets (Rs. in lakhs) Expenditure (Rs. in lakhs) | Development authorities have been constituted for Kari and Kole lands and infrastructural works facilitating additional cropping are supported. | 150.00 150.00 | 200.00 290.00 |

4.22 District-wise details of area, production and productivity of rice and high yielding varieties are given in Appendix 4.4 & 4.5.

Coconut

4.23 Coconut is the mainstay of Kerala's rural economy in view of its multifarious contribution income and employment. Nearly six percent of the vegetable oil production in the country is accounted for by coconut oil a lion's share of which originates from Kerala. The Coir industry which provides direct employment for more than 5 lakh workers depend on this crop for its raw material. Export of coir and coir products earns considerable foreign exchange every year. In Kerala State alone, coconut processing and related activities provide direct employment to over one million people. Coconut and its products constitute the major commodity of inter state trade involving a gross annual turn over of about 5400 million rupees. As per the estimates for 1993-94 the crop covers around 8.81 lakh ha. in the State accounting for nearly 39 percent of the net cropped area. The highly favourable rainfall received during the last 4 years in succession combined with the development initiatives of the

State has helped the crop to make a dramatic turn around in production and productivity during the last 3 years (Fig. 4.3).

4.24 Data on area, production and productivity of the crop in the State and the country are given in table 4.13. The emerging picture is very much encouraging. The production of 5586 million nuts forecast for the year 1993-94 is the highest ever recorded in Kerala. Coconut production which was hovering around 3500 to 4000 million nuts throughout the last decade has recovered strongly during 1993-94. The incremental production achieved during the last two years alone works out to 945 million nuts accounting for an average annual growth of more than 10 percent. The increase in production is largely contributed by improvement in productivity. In respect of productivity also the year 1993-94 witnessed a record level of 6336 nuts per ha. with a growth rate of 8.44%. Despite continuous improvement in productivity during the last six years in succession there still remains a large gap between the national average (7032 nuts/ha.) and the State average. It is hoped that the massive scheme now launched by the State with emphasis on irrigation and scientific management would help to reduce the gap further.

Table 4.13

Area, Production and Productivity of Coconut in Kerala and India

| Year | Area ('000 ha.) | | Production (Million nuts) | | Productivity (nuts/ha.) | |
|----------|-----------------|--------|---------------------------|---------|-------------------------|-------|
| | Kerala | India | Kerala | India | Kerala | India |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1985-86 | 704.68 | 1225.6 | 3377 | 6770.3 | 4792 | 5524 |
| 1990-91 | 870.02 | 1513.9 | 4232 | 9700.2 | 4864 | 6407 |
| 1991-92 | 863.06 | 1528.9 | 4641 | 10079.6 | 5377 | 6593 |
| 1992-93 | 877.012 | 1617.6 | 5124 | 11375.4 | 5843 | 7032 |
| 1993-94* | 881.64 | --- | 5586 | --- | 6336 | --- |

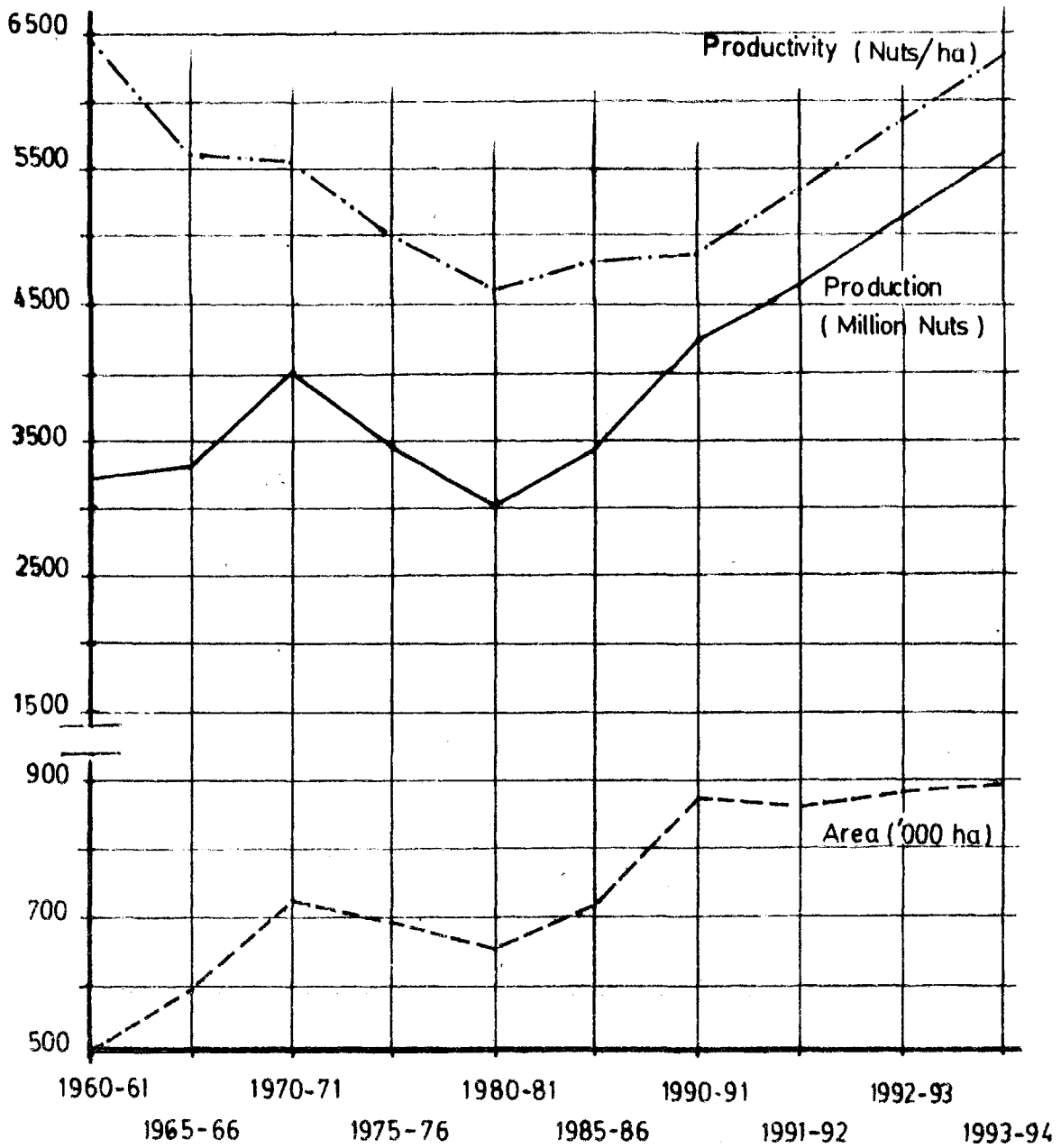
Source : Directorate of Economics and Statistics, Govt. of Kerala, Govt. of India.

*Provisional

4.25 A direct fall-out of the spurt in production has been the steep fall in prices. The average price of coconut which was more or less stable at around Rs. 4 per nut during the past two to three years has plummeted to Rs. 2.50 to Rs. 3.00 during 1993-94. Even the market intervention programme operated by the Government with a support price of Rs. 2350 per qtl. of copra through the

Kerfed could not salvage the price situation despite a massive procurement of around 52000 tonnes of copra. The present production of coconut oil in the country is around 3.5 lakh tonnes. Indications are that the State is heading for another bumper harvest during 1994-95 which is likely to create a further glut in the market. A conscious shift in favour of product diversification and bye-product utilisation is neces-

Fig.4.3
AREA PRODUCTION AND PRODUCTIVITY OF
COCONUT IN KERALA



sary for ensuring further growth and development of the commodity on a commercial footing.

4.26 Details of development support given for coconut production are given in table 4.14

Table 4.14
Details of Development Support given for Coconut Production

| Sl.No. | Name of Scheme | Activities Supported | 1992-93 | 1993-94 |
|--------|--|--|---------|---------|
| (1) | (2) | (3) | (4) | (5) |
| 1) | Comprehensive Coconut Development Programme on Area basis | a) Coconut seedlings supplied (Nos.) | 9900 | |
| | | b) Pumpsets (Nos.) | 2610 | |
| | | c) Sprayers (Nos.) | 548 | |
| | | d) Mg. sulphate distributed (MT) | 2990.35 | |
| | | e) Green manure seed (MT) | 32.78 | 103.83 |
| | | f) Climbing device supplied (No.) | --- | 631 |
| | | g) Training | 2859 | 2038 |
| | Financial target (Rs. lakhs) | | 300.00 | 400.00 |
| | Financial expenditure (Rs. lakhs) | | 244.98 | 401.89 |
| 2) | Production and distribution of quality seedlings | seedlings distributed (lakh nos.) | 3.90 | 10.87 |
| | Financial target (Rs. lakh) | | 100.00 | 100.00 |
| | Financial expenditure (Rs. lakh) | | 129.83 | 105.03 |
| 3) | Coconut Board Scheme for Integrated Farming in coconut small holdings (CSS 50%) (later to 100% CSS in 1993-94) | a) Area covered (ha.) | 10000 | 10000 |
| | | b) No. of diseased/ senile palms cut and removed | 139961 | 87500 |
| | | c) Replanting with quality seedlings (Nos.) | 126000 | 87500 |
| | | d) Wells (Nos.) | 545 | --- |
| | | e) Pumpsets (Nos.) | 1360 | --- |
| | | f) Multi species cropping (ha.) | 6012 | 10500 |
| | Financial target (Rs. lakh) | | 70.00 | 490.00 |
| | Financial expenditure (Rs. lakh) | | 67.19 | 432.60 |
| 4) | Production and distribution of T x D seedlings (50% CSS) | T x D Coconut seedlings produced (lakh nos.) | 0.55 | 1.26 |
| | Financial target (Rs. lakh) | | 8.00 | 15.00 |
| | Financial expenditure (Rs. lakh) | | 13.70 | 13.57 |
| 5) | Coconut Development Board Scheme for providing irrigation facilities (50% CSS) | No. of pumpsets installed | 1375 | --- |
| | Financial target (Rs. lakh) | | 7.00 | 7.00 |
| | Financial expenditure (Rs. lakh) | | 6.79 | 0.17 |

Source: Directorate of Agriculture

Pepper

4.27 Pepper is one of the major export oriented commodity in which the State has certain inherent and established strengths over other producing regions. Unfortunately, very little has been done for strengthening the production base on scientific and systematic lines. Area, production and productivity of pepper in the State and the country are given in table 4.15. The State accounts for 98% of the country's production. According to available

information, production of pepper for 1993-94 is estimated at 50370 tonnes, which is marginally higher than the production of 49670 tonnes recorded in 1992-93 (Fig. 4.4). The productivity continues to be low at around 280 Kg. per ha. The rapid spread of the quickwilt disease in important producing areas in Kannur, Wayanad and Idukki district during 1993-94 has further deteriorated the production potential. Future Programmes for this crop therefore be aimed at systematic improvement in productivity of the vast area under the crop.

Table 4.15

Area, Production and Productivity of Pepper in Kerala & India

| Year | Area ('000 ha.) | | Production ('000 tonnes) | | Productivity (Kg/ha.) | |
|----------|-----------------|--------|--------------------------|-------|-----------------------|-------|
| | Kerala | India | Kerala | India | Kerala | India |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1988-89 | 157.01 | 16.74 | 43.24 | 44.16 | 275 | 275 |
| 1989-90 | 167.10 | 171.49 | 54.14 | 55.19 | 323 | 322 |
| 1990-91 | 168.51 | 173.43 | 46.80 | 47.95 | 278 | 276 |
| 1991-92 | 178.13 | 184.20 | 50.31 | 52.01 | 282 | 282 |
| 1992-93 | 183.48 | 177.36 | 49.67 | 54.93 | 271 | 310 |
| 1993-94* | 177.85 | — | 50.37 | — | 283 | — |

Source : Directorate of Economics and Statistics (Government of India, Govt. of Kerala)

*Provisional

4.28 Being an export commodity earning substantial foreign exchange, it is for the Government of India to provide the required technical and financial help for organised efforts in this direction. The Central sector scheme launched for pepper development during the Eighth Plan provides for a major step up in physical coverage and financial assistance. Government of India also provided financial support for organising a massive plant protection programme for the control of quick wilt disease covering 47000 ha. during 1993-94. The State could implement the programme successfully in close collaboration with NRCS & Directorate of Arecanut and Spices covering nearly 86000 ha. during 1993-94

and early 1994-95. Scheme-wise details of production support given for the commodity are given in table 4.16.

4.29 Export of pepper from the country picked up considerably during 1993-94. The total quantity exported during the year was 46650 tonnes against 23752 tonnes in 1992-93. More than 93 per cent of the exports were from Kerala. It should be possible for the country to regain the lost glory in pepper trade by giving sharper focus on post harvest activities like quality control, value addition and marketing and concentrating such activities in Kerala.

Fig. 4.4

AREA PRODUCTION AND PRODUCTIVITY OF PEPPER IN KERALA

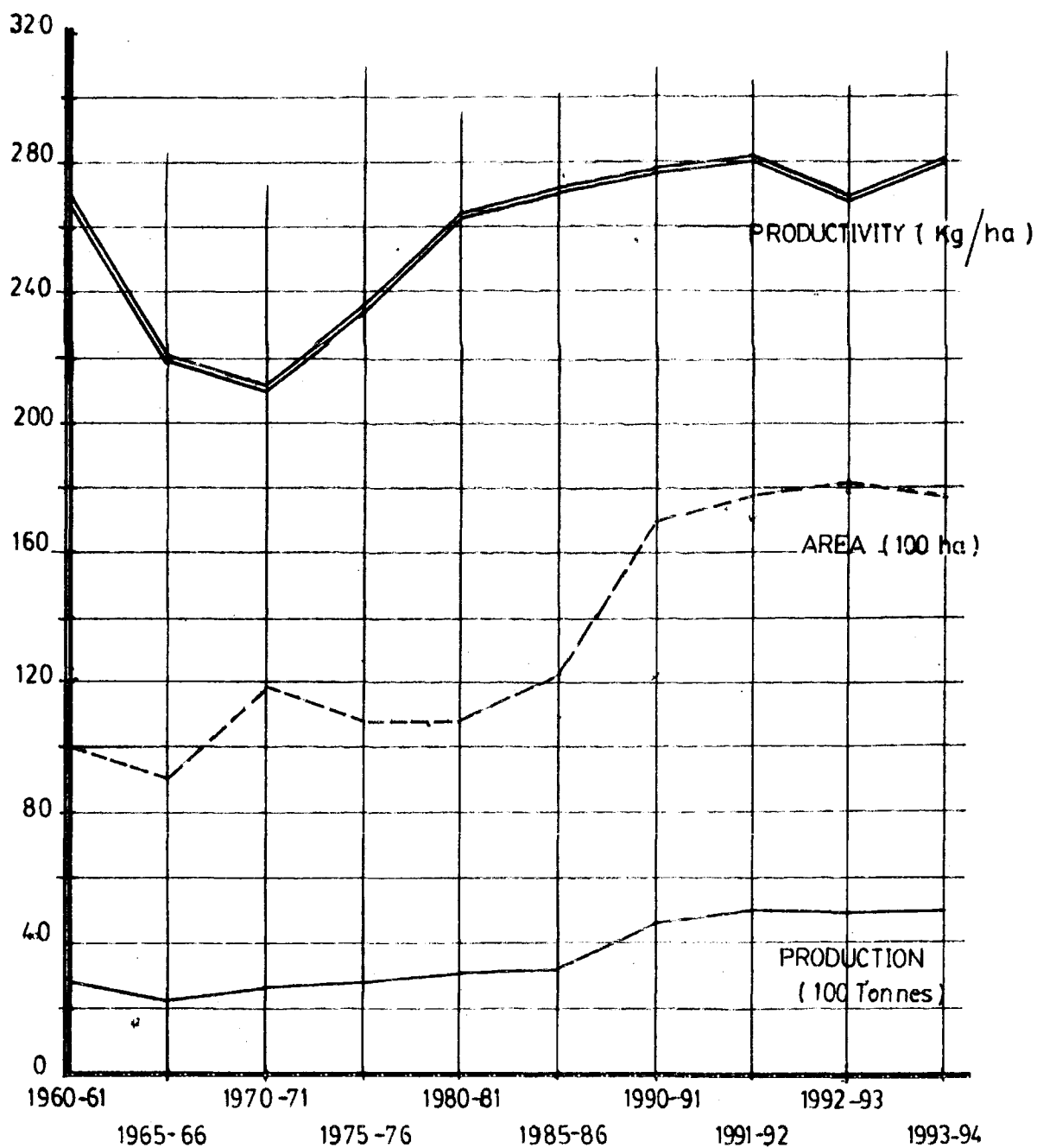


Table 4.16

Details of Development Support given for Pepper/Spices Production

| Sl. No. | Name of Scheme | Activities Supported | 1992-93 | 1993-94 |
|---------|--|---|---------|---------|
| (1) | (2) | (3) | (4) | (5) |
| 1) | Development of Spices | a) Area rehabilitation (ha.) | 1905 | 6939 |
| | | b) Pepper cuttings distributed (lakh Nos.) | 41.24 | 17.50 |
| | | c) Ginger minikits (Nos.) | --- | 4490 |
| | | d) Turmeric minikits (Nos.) | --- | 4500 |
| | | Cinnamon minikits (Nos.) | --- | 1700 |
| | | f) Chillies Area (ha.) | --- | 600 |
| | Financial target (lakh Rs.) | | 150.00 | 300.00 |
| | Financial expenditure (lakh Rs.) | | 88.75 | 279.45 |
| 2) | Integrated Programme for development of spices (C.S) | a) Production of rooted Pepper cuttings (lakh Nos.) | 50.00 | 59.10 |
| | | b) Area rehabilitation (ha.) | 8213 | 9415 |
| | | c) Minikits distributed (lakh nos.) | 3.19 | --- |
| | | d) Clove seedlings produced (lakh nos.) | 0.44 | 0.33 |
| | | e) Spraying against quick wilt (lakh ha.) | --- | 0.47 |
| | Financial target (lakh Rs.) | | 370.00 | 1000.00 |
| | Financial expenditure (lakh Rs.) | | 807.95 | 843.00 |

Source : Directorate of Agriculture

Cashew

4.30 Cashew is an important foreign exchange earner for the nation. The cashew industry built up in the country comprises of 690 processing units with an installed capacity of 6 lakh tonnes employing about 3 lakh workers. The internal production of cashew is only around 3.5 lakh tonnes and the import used to be around 1.7 lakh tonnes. Thus there is a wide gap between demand and supply. In Kerala there are 196 factories in the private sector and another 70 owned by the Kerala State Cashew Development Corporation. They together have an installed capacity of 5 lakh tonnes employing over 2.5 lakh workers. Kerala has all the agroclimatic endowments for producing high quality and premium brand cashew which has a ready international market. Still the performance of cashew in Kerala is disappoint-

ing. Despite the implementation of a series of programme is aimed at expansion of area during the last 2 decades there is no visible impact by way of improvement in area. On the contrary there is a declining trend in the area under this crop. So also is the productivity which is not only low but also highly unstable. The estimates for 1993-94 indicates that there is the likelihood of a marginal fall in area (from 1.09 to 1.08 lakh ha.) and drastic reduction in production (table 4.17). The drop in production estimated is around 21% (95620 tonnes to 75580 tonnes). The drop is attributed entirely due to the sharp decline in productivity from 877 Kg. to 696 Kg. per ha. Cashew is perhaps the only crop which presented such a dismal performance during 1993-94. So far the development thrust has been on expanding the area. According to the Directorate of Cashew development more than 50 per cent of the cashew trees in the

State requires replanning because of old age and sinility. High yielding cultivars developed in Kerala with yield potentials of more than 20 Kg. per tree are available. Vegetative propagation techniques for upgrading the existing stock have also been perfected. A systematic programme for selective replanting of low yielding trees is urgently required. Loss in production due to the attack by tea mosquito is another deterrent for enhancing productivity. Here again the solution lies in organising mass plant protection campaigns on a regular basis with people's participation. The Centrally Sponsored Scheme currently under implementation covers only a meagre area of around 7500 ha. State Government has to supplement this effort if additional central assistance is not forthcoming. Scheme-wise details of development support are given in table 4.18

Table 4.17

**Area, Production and Productivity of
Cashewnut in Kerala**

| Year | Area ('000 ha.) | Production ('000 tonnes) | Productivity (Kg/ha.) |
|----------|--------------------|-----------------------------|--------------------------|
| (1) | (2) | (3) | (4) |
| 1980-81 | 141.27 | 81.90 | 580.00 |
| 1985-86 | 137.74 | 80.20 | 582.25 |
| 1989-90 | 123.66 | 106.25 | 859.20 |
| 1990-91 | 115.62 | 102.77 | 888.86 |
| 1991-92 | 112.05 | 104.60 | 933.00 |
| 1992-93 | 109.04 | 95.62 | 877.00 |
| 1993-94* | 108.61 | 75.58 | 696.00 |
| India* | | | |
| 1992-93 | 560.290 | 349.390 | 623.59 |
| 1993-94 | 565.420 | 348.150 | 615.73 |

*Source: Directorate of Cashew Development,
Directorate of Economics and Statistics, Govt. of Kerala*

**Provisional*

Table 4.18

Details of Development Support given for Cashew Production

| Sl. No. | Name of Scheme | Activities Supported | 1992-93 | 1993-94 |
|---------|---|---|---------|---------|
| (1) | (2) | (3) | (4) | (5) |
| 1) | Area expansion and replanting | a) New area brought under cultivation (ha.) | 516 | 2976 |
| | | b) Seedlings distributed (nos.) | 84000 | 320000 |
| | Financial target (Rs. lakhs) | | 10.00 | 25.00 |
| | Financial expenditure (Rs. lakhs) | | 8.50 | 24.94 |
| 2) | Better management of young plantations | a) Area covered (ha.) | --- | 5620 |
| | Financial target (Rs. lakhs) | | --- | 36.00 |
| | Financial expenditure (Rs. lakhs) | | --- | 36.00 |
| 3) | Integrated Development of Cashew (100% CSS) | a) New area planted (ha.) | 150 | 172 |
| | Financial target (Rs. lakhs) | | 2.00 | 6.50 |
| | Financial expenditure (Rs. lakhs) | | 4.98 | 7.49 |
| 4) | Plant protection measures for cashew (100% CSS) | Area covered (ha.) | 6000 | 7520 |
| | Financial target (Rs. lakhs) | | 10.00 | 30.00 |
| | Financial expenditure (Rs. lakhs) | | 25.85 | 62.97 |

Source: Directorate of Agriculture

4.31 The price situation for cashew remained buoyant during 1993-94 ranging from Rs.25 to Rs. 30 per Kg. against the average of around Rs. 20 that prevailed in the previous year. State Government have reintroduced the procurement scheme during 1993-94 after allowing a free trade during 1992-93. Eventhough the procurement through Government agency was a meagre 20000 tonnes it appears that it could create favourable impact on stabilising farm prices at relatively higher levels. The export of cashew from the country also has made spectacular improvement from 53241 tonnes in 1992-93 to 64000 tonnes in 1993-94.

Plantation Crops

4.32 Kerala accounts for about 46% of the area under plantation crops in the country comprising tea, coffee, rubber and cardamom. These crops cover more than 26% of the net cropped area in the State and provide permanent employment to over 3.6 lakh workers.

4.33 Rubber is the predominant plantation crop in Kerala accounting for more than 85% of the area and 93% of the production in the country. Thanks to the strong leadership given by Rubber Board the crop has been on the path of steady and stable growth during the last 2 decades. The year 1993-94 witnessed further increase in area, production and productivity. Production rose from 3.68 lakh M.T. in 1992-93 to 4.08 lakh MT in 1993-94 (10.8%).

Through systematic efforts the country has moved closer to self sufficiency in natural rubber production. The import during 1993-94 was only 21284 tonnes which includes 17253 tonnes allowed for production of goods for export.

4.34 The average price of natural rubber in Kottayam market during 1993-94 was Rs. 2569 for RSS - IV grade against Rs. 2550 that prevailed in 1992-93.

4.35 Though Kerala accounts for a major chunk of the area under Rubber in the country, consumption within the State is only 12% (54,108 tonnes).

4.36 The development support given by the Rubber Board includes financial and technical assistance for new planting and replanting, distribution of high yielding planting materials, popularising rain guarded tapping, spraying against pests/diseases etc. A World Bank assisted Rubber Project is also under implementation from 1993-94. Replanting of old and low yielding rubber in 40,000 hectares, new planting in 30,000 hectares which includes 23,000 hectares in Kerala, productivity enhancement in 60,000 hectares of mature areas of small holdings through adoption of improved agro management & establishment of processing facilities are the activities envisaged in the project. Production, consumption and price statistics are given in Table 4.19, 4.20 and 4.21.

Table 4.19

Area, Production and Productivity of Rubber, Kerala and India

| Year | Area ('000 ha.) | Kerala Production (M.T.) | Productivity (Kg/ha.) | Area ('000 ha.) | India Production (M.T.) | Productivity (Kg/ha.) |
|----------|--------------------|--------------------------------|--------------------------|--------------------|-------------------------------|--------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1987-88 | 355.0 | 216,562 | 942 | 406.4 | 235197 | 944 |
| 1988-89 | 383.562 | 233,414 | 967 | 440.5 | 259172 | 974 |
| 1989-90 | 396.467 | 275,397 | 1025 | 460.341 | 297300 | 1029 |
| 1990-91 | 407.821 | 307,521 | 1079 | 475.083 | 329615 | 1076 |
| 1991-92 | 419.174 | 343,109 | 1139 | 488.514 | 366745 | 1130 |
| 1992-93* | 428.864 | 368,648 | 1164 | 499.374 | 393490 | 1154 |
| 1993-94* | 437.100 | 408,311 | 1228 | 508.420 | 435160 | 1215 |

Source : The Rubber Board, Kottayam

* Provisional

Table 4.20
Consumption of Rubber, Kerala & India (In Tonnes)

| Year | Kerala | | | India | | |
|----------|--------|--------|-------|---------|---------|--------|
| | N.R. | S.R. | R.R. | N.R. | S.R. | R.R. |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1991-92 | 51,197 | 14,893 | 4,853 | 350,150 | 105,650 | 54,015 |
| 1992-93 | 52,462 | 15,646 | 5,365 | 414,105 | 107,440 | 62,470 |
| 1993-94* | 54,108 | 16,441 | 5,333 | 450,480 | 109,895 | 63,110 |

N.R. - Natural rubber
S.R. - Synthetic rubber
R.R. - Reclaimed rubber

Source : Rubber Board, Kottayam
*Provisional

Table 4.21

Average Market Price of Indigenous & Natural Rubber
in Kottayam Market (Rs./Quintal)

| Year & Month (1) | RMA4 (2) | Ungraded (3) |
|---------------------|-------------|-----------------|
| 1986-87 | 1660 | |
| 1987-88 | 1791 | |
| 1988-89 | 1815 | |
| 1989-90 | 2131 | |
| 1990-91 | 2129 | |
| 1991-92 | 2141 | |
| 1992-93 | 2550 | |
| 1993-94 | 2569 | 2437 |
| April 1994 | 2621 | 2514 |
| May 1994 | 2749 | 2645 |
| June 1994 | 2851 | 2685 |
| July 1994 | 3014 | 2882 |
| August 1994 | 3559 | 3112 |
| September 1994 | 4148 | 3517 |
| October 1994 | 3548 | 3350 |
| Average | 3213 | 2958 |

Source : Rubber Board, Kottayam.

4.37 Next to Rubber, Coffee covers the largest area in Kerala. As per 1993-94 statistics the coverage is 84000 ha. accounting for 31% of the

area in the country. The area is more or less stationary while the production is cyclical with biennial variation. 1993-94 appears to be an year of boom resulting in larger production of around 38000 tonnes which is 53% higher than the previous year's level. The increase is due to the improvement in productivity from 431 to 562 Kg. per ha. of bearing area.

4.38 During 1993-94 the international coffee situation has undergone tremendous changes; shaking the very structure of demand and supply pattern. The widespread frost in Brazil followed by a drought has resulted in a crop loss of around 40 per cent during 1993-94 season. This has led to a sharp contraction in supplies and consequent boom in international prices. The commodity which was facing a severe crisis on the marketing front consequent to the collapse of the international coffee agreement had a sigh of relief by way of ready market and enhanced prices. The international prices quadrupled during the period. The free market allowed by Coffee Board as part of the new policy also helped in boosting exports. Government of India was compelled to cap the exports by imposing a maximum limit of 1.1 lakh tonnes with a view to ease the availability of the commodity for internal consumption and to bring the domestic prices under control.

4.39 Cardamom ranks third in area coverage under plantation crops. The area under the crop during 1993-94 was 43459 ha. which is more or

less stagnant. In respect of production it has recorded an all time high of 4430 tonnes which is very much encouraging. However the productivity is very low hovering around 55 to 60 Kg per ha. in 1992-93 and around 100 Kg/ha. in 1993-94. Kerala accounts for about 60 to 70 percent of the country's production. With the advancement of bio-technology it is possible to upgrade the productivity of our plantations through micro propagation of selected high yielding cultivars and making them available for large scale replanting.

4.40 During 1993-94, export of small cardamom from the country was 342 MT against 190 tonnes for 1992-93. The average price has come down from Rs. 465 per Kg. in 1992-93 to Rs. 340 per Kg. in 1993-94.

4.41 As per 1993-94 estimates by UPASI, tea covers nearly 35000 ha. in Kerala with a production of 60690 tonnes. This accounts for nearly 8% of that in the country in both area and production. Tea cultivation in Kerala is spread over 132 estates, 90 per cent of which are above 50 ha. in size. New initiatives are lacking in the tea production front for timely replanting and upgradation of existing stock and consequently the area and production are remaining almost static during the last few years.

4.42 The tea industry particularly in South India is facing a crisis following the glut in the market consequent to the drop in exports to Soviet Union which was the main consumer of the South Indian tea. Tea exports from the country dropped from 180.7 million Kg in 1992-93 to 142 million Kg. in 1993-94.

Table 4.22

Plantation Crops - Area, Production, Productivity and Export

| | 1990 / 91 | | 1991 / 92 | | 1992 / 93 | | 1993 / 94 | |
|---------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|
| | Kerala | India | Kerala | India | Kerala | India | Kerala | India |
| Area (Hectare) | | | | | | | | |
| Tea | 34,612 | 416,563 | 34,708 | 420,500 | 34,719 | 422,592 | 34,858 | 425,026 |
| Coffee | 84,016 | 270,513 | 84,016 | 270,513 | 84,016 | 270,513 | 84,016 | 270,513 |
| Rubber | 407,821 | 475,083 | 419,174 | 488,514 | 428,864 | 499,374 | 428,864 | 499,374 |
| Cardamom | 44,008 | 81,113 | 44,008 | 81,113 | 44,008 | 81,113 | 44,008 | 81,113 |
| Production (Tonnes) | | | | | | | | |
| Tea | 60,665 | 720,338 | 66,803 | 754,192 | 55,136 | 703,931 | 60,691 | 758,063 |
| Coffee | 21,884 | 169,726 | 30,960 | 180,000 | 25,000 | 161,500 | 38,000 | 208,000 |
| Rubber | 307,521 | 329,615 | 343,109 | 366,745 | 368,648 | 393,490 | 406,375 | 435,160 |
| Cardamom | 3,450 | 4,750 | 3,460 | 5,000 | 1,400 | 3,000 | 4,250 | 6,700 |
| Productivity (Kgs/Hect.) | | | | | | | | |
| Tea | 1,753 | 1,729 | 1,925 | 1,794 | 1,588 | 1,666 | 1,913 | 1,784 |
| Coffee | 330 | 756 | 466 | 801 | 377 | 719 | 672 | 926 |
| Rubber | 1,079 | 1,076 | 1,139 | 1,130 | 1,164 | 1,154 | 1,284 | 1,276 |
| Cardamom | 78 | 59 | 79 | 62 | 32 | 37 | 97 | 83 |
| EXPORT* | | | | | | | | |
| Quantity (Tonnes) | | | | | | | | |
| Tea | 38,229 | 199,165 | 55,820 | 216,449 | 43,168 | 180,690 | 48,600 | 142,021 |
| Coffee | 100,110 | 100,110 | 111,457 | 111,457 | 113,602 | 113,602 | 128,929 | 128,929 |
| Rubber | --- | --- | --- | --- | --- | --- | --- | --- |
| Cardamom | 400 | 400 | 553 | 553 | 190 | 190 | 342 | 342 |
| Value (Rs. Crores) | | | | | | | | |
| Tea | 182.77 | 1071.10 | 258.42 | 1212.27 | 218.54 | 1058.70 | N.A. | 978.38 |
| Coffee | 278.89 | 278.89 | 349.01 | 349.01 | 380.00 | 380.00 | 550.00 | 550.00 |
| Rubber | --- | --- | --- | --- | --- | --- | --- | --- |
| Cardamom | 10.87 | 10.87 | 16.07 | 16.07 | 7.51 | 7.51 | 13.86 | 13.86 |

(* Since state-wise export figures are not available, Kerala figures refers to South India)

Note : Figures relating to tea refer Calendar Year.

Productivity for Coffee and Rubber is based on bearing area and tappable area respectively.

The area figures for Coffee & Cardamom from the year 1990/91 are repeated.

4.43 Production statistics for plantation crops as estimated by UPASI are given in table 4.22

Horticulture

4.44 Although the natural endowments in Kerala are highly suited for a wide variety of horticultural crops a significant beginning is yet to be made. By adopting a market linked production strategy on commercial lines with the support of appropriate institutional arrangements for agro processing and export the State could emerge as a major player in fruits and floriculture. Programme planning and organisation requires a new orientation for locating potential pockets and concentrating the development efforts in selected commodities with necessary forward and backward linkages. Assistance available under the Centrally Sponsored Scheme for drip irrigation could be suitably dovetailed with such efforts. The only bright spot in the otherwise dismal picture is the systematic ground work being completed step by step under the EEC aided Horticultural Development Project which is expected to be fully operational during 1994-95. Vegetables, mango, banana and pineapple are likely to get a boost under this project.

4.45 Kerala has about 3645 ha. of area under oil palm plantations, owned by the Oil Palm

India Ltd. All the areas have started yielding and 2949 MT of crude palm oil was produced in 1993-94. Year-wise production and sale of crude palm oil over the last six years are given in Table 4.23.

4.46 As part of the Eight Plan development support was extended to almost all the important crops in Kerala though on a limited scale. Scheme-wise details are given in table 4.24.

Table 4.23

Production and Sale of Crude Palm in Kerala

| Year | Quantity of Oil produced | Quantity sold by Oil Palm India Ltd. (Tonnes) | Revenue (Rs. Lakhs) |
|----------|--------------------------|---|---------------------|
| (1) | (2) | (3) | (4) |
| 1988-89 | 2035 | 2196 | 314.56 |
| 1989-90 | 2108 | 1986 | 307.06 |
| 1990-91 | 2518 | 2478 | 376.98 |
| 1991-92 | 2323 | 2482 | 518.00 |
| 1992-93 | 2232 | 2121 | 403.00 |
| 1993-94* | 2949 | 2970 | 531.00 |

Source: Oil Palm India Limited

*Provisional

Table 4.24

Details of other programmes implemented by the Department of Agriculture

| Sl. No. | Name of Scheme | Activities Supported in 1993-94 |
|---------|--|--|
| (1) | (2) | (3) |
| 1. | Development of Vegetables | 1) No. of vegetable seed packets distributed - 13.92 lakhs 2) Irrigation sources developed - 108 nos. 3) Pumpsets installed - 95 nos. 4) Land Development works - 45 ha. 5) Implements distributed - 162 nos. 6) Trainings - 71 nos. 7) Cultivation of hybrid tomato - 200 ha. |
| 2. | Central Sector Scheme for fruits and vegetables (100% CSS) | 1) No. of minikits of vegetable seeds and fertilizers distributed - 3500 nos. |
| 3. | Development of fruits | 1) Planting materials of fruit plants distributed - 43917 nos. 2) Pumpsets distributed - 993 nos. |

| | | | | | |
|-----|--|---|---|-------|-----------|
| 4. | Development of Pulses | 1) Subsidised distribution of seeds | - | 258 | MT |
| | | 2) Area covered by plant protection measures | - | 10772 | ha. |
| 5. | National Pulses Development Project (50% CSS) | 1) Minikits distributed | - | 2890 | nos. |
| | | 2) Block demonstration (10 ha.) conducted | - | 919 | ha. |
| | | 3) Sprayers distributed | - | 164 | nos. |
| | | 4) Rhizobium packets distributed | - | 1127 | nos. |
| | | 5) Plant Protection measures | - | 1131 | ha. |
| 6. | Central Sector Scheme for Development of Arecanut (100% CSS) | 1) Irrigation units established | - | 102 | nos. |
| | | 2) Control of fruit rot disease | - | 7254 | ha. |
| | | 3) Eradication of palms affected with yellow leaf disease | - | 6908 | nos. |
| | | 4) Sprayers distributed | - | 91 | nos. |
| | | 5) Seednuts procured | - | 75000 | nos. |
| 7. | Central Scheme for Development of Cocoa (100% CSS) | 1) New demonstration plots laid out | - | 50 | nos. |
| | | 2) Irrigation units established | - | 264 | nos. |
| | | 3) Rejuvenation of unproductive gardens | - | 237 | ha. |
| 8. | National Biogas Development Programme (100% CSS) | 1) Biogas plants constructed | - | 2446 | nos. |
| | | 2) Users Training conducted | - | 29 | nos. |
| 9. | Contingency programme to meet natural calamities | 1) Paddy seeds distributed | - | 3925 | Qtl. |
| | | 2) Pulses seeds distributed | - | 68 | Qtl. |
| | | 3) Vegetable seeds distributed | - | 22 | Kg. |
| 10. | Soil Testing and Quality Control | 1) Fertilizer samples analysed | - | 4826 | Nos. |
| | | 2) Pesticide samples analysed | - | 1250 | nos. |
| | | 3) Seed samples analysed | - | 2932 | nos. |
| | | 4) Soil samples analysed | - | 1.87 | lakh nos. |
| 11. | Development of organic manures through Farmer's Organisation | 1) Green manure seeds distributed | - | 262 | MT |
| | | 2) Production and distribution of urban compost | - | 7080 | MT |
| | | 3) Production and distribution of rural compost | - | 1.153 | lakh MT |
| | | 4) Trainings conducted | - | 4535 | nos. |
| | | 5) Bio-fertilizer demonstration | - | 126 | nos. |
| | | 6) Rhizobium cultures distributed | - | 2.7 | MT |
| 12. | Community action against serious pest/disease outbreak | 1) Area covered against Mahali disease | - | 635 | ha. |
| | | 2) Trees covered against bud rot disease | - | 1.14 | lakh |
| | | 3) Area covered against tea mosquito | - | 5555 | ha. |

Supplies and Services

Improved Seeds

4.47 Seed industry in Kerala continues to be weak with Government farms dominating the scene. Functional linkages in the production front and supply arrangements are not adequate.

4.48 Private approved nursery programme introduced during 1992-93 requires further follow up for making all the 496 nurseries established fully operational.

4.49 Distribution of seeds and seedlings arranged by the Department of Agriculture during 1993-94 includes 2865 tonnes of paddy seeds, 258 tonnes pulses, 10 lakh coconut seedlings, 55 lakh pepper cuttings, 3.95 lakh cashew layers and 0.67 lakh nutmeg seedlings.

Manures and Fertilizers

4.50 The decontrol of P & K fertilizers with effect from August 1992 had its adverse conse-

quences in the farm front. The total N, P & K consumption per hectare of cropped area fell from the peak of 80.92 Kg/ha. in 1990-91 to 67.2 Kg in 1992-93 and further to 58.04 Kg in 1993-94. The percentage reduction over two years works out to 28. At the All India level per hectare consumption of N, P & K was 70.7 Kg. in 1991-92 and 67.1 Kg in 1992-93. The overall consumption in the State also came down from 2.02 lakh tonnes in 1992-93 to 1.76 lakh tonnes in 1993-94. It appears that there is an increasing trend among the farming community to rely more on the use of nitrogenous fertilizers in substitution of P & K which have become costly. In effect it has spoiled the past efforts made by the agricultural extension machinery in propagating the balanced use of nutrients. Excess use of nitrogen will have far reaching deleterious effects on crop productivity.

4.51 Fertilizer consumption statistics is given in table 4.25 and 4.26

Table 4.25

Consumption of Fertilizers per ha. of cropped area in Kerala

| Year | N | P | K | Total | | N : PK % |
|----------|-------|-------|-------|--------|-------|-------------|
| | | | | Kerala | India | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1990-91 | 31.06 | 18.35 | 31.51 | 80.92 | 69.70 | 62.29 |
| 1991-92 | 27.43 | 16.92 | 30.44 | 74.79 | 70.70 | 57.92 |
| 1992-93 | 27.55 | 15.51 | 23.57 | 66.63 | 67.10 | 70.50 |
| 1993-94* | 25.47 | 10.87 | 21.70 | 58.04 | N.A. | 78.20 |

*Provisional

Source : 1) Fertilizer Statistics, FAI, New Delhi

2) Directorate of Agriculture, Kerala

3) Economic Survey 1991-92 and 1993-94

Table 4.26
Selected Indicators of Agricultural Development

| Sl. No. | Programme | Unit | 1990-91 | 91-92 | 92-93 | 93-94 |
|--|---|-----------|---------|---------|---------|---------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1. Fertilizer Consumption | | | | | | |
| a) | Nitrogen | Tonnes | 93805 | 82874 | 83296 | 77599 |
| b) | Phosphorus | " | 55420 | 51109 | 47250 | 33122 |
| c) | Potash | " | 95155 | 91954 | 71792 | 66110 |
| 2. Plant protection | | | | | | |
| a) | Fungicide (Liquid & Solid) in terms of technical grade | Tonnes | 46585 | 374.46 | 394.01 | 264.50 |
| b) | Insecticides (Liquid & solid) in terms of technical grade | " | 436.93 | 325.24 | 302.17 | 297.64 |
| c) | Weedicide (in terms of technical grade) | " | 29.84 | 20.46 | 36.72 | 20.46 |
| d) | Rodenticides (in terms of technical grade) | " | 12.88 | 4.09 | 17.65 | 21.10 |
| e) | Area under plant protection coverage | Lakh ha. | 8.310 | 7.25 | 8.10 | 8.70 |
| f) | Rodent control operation | " | 1.069 | 0.989 | 0.81 | 0.97 |
| g) | Biological control of Nephantic Serinopa parasities liberated | Lakh Nos. | 225.576 | 233.814 | 200.93 | 207.278 |
| h) | Weed control | " | 1.345 | 1.432 | 1.39 | 1.42 |
| 3. High yielding varieties of paddy seeds distributed | | | | | | |
| | | Tonnes | 2344 | 1675 | 2865.74 | 4500 |
| 4. Quality planting materials distributed | | | | | | |
| a) | Coconutseedlings | Lakh No. | 17.9 | 14.16 | 3.95 | 10.04 |
| b) | Rooted Pepper cuttings | " | 45.49 | 39.00 | 35.00 | 55.00 |
| c) | Cashew layers | " | 0.14 | --- | 0.79 | 3.95 |
| 5. Soil testing | | | | | | |
| | Soil samples analysed | " | 212685 | 213441 | 186400 | 187740 |

Source: Directorate of Agriculture.

*Provisional

Plant Protection

4.52 Keeping with the strategy of need based application of plant protection chemicals pursued by the state the consumption of chemicals has declined from 687.9 tonnes in 1992-93 to 582.60 tonnes in 1993-94. The only item which has shown remarkable increase is rodenticides, the consump-

tion of which increased from 4.09 tonnes in 1991-92 to 17.65 tonnes in 1992-93 and 21.10 tonnes in 1993-94.

4.53 The average price of agriculture inputs shown an increasing trend, especially the prices of fertilizers. Relevant data are presented in Appendix 4.6

Soil Conservation

4.54 The high rainfall of around 3000 mm with its high intensity makes Kerala soils vulnerable to erosion. In view of the undulating terrain the nature and magnitude of soil erosion also vary from region to region. Excepting the organised plantations particularly for rubber and tea the initial plantings in respect of traditional crops have been done without proper soil conservation. This makes the soil conservation programme all the more difficult. There is no authentic data on the extent of agricultural land requiring protection. However rough estimates indicate that about 12 to 15 lakh ha. including forest lands are prone to soil erosion. The conservation measures will be effective and perfect only if they are organised on a watershed basis. In view of the predominance of small and marginal holdings massive operations on a contiguous area basis are feasible only with Government support. With the meagre resources that could be made available in the plan it is difficult to make any appreciable dent on this problem. The cumulative coverage so far made under the departmental programme is only 1.1 lakh ha. With the implementation of the 100 percent centrally sponsored national programme for watershed management as well as the Kundah project the scale of operation could be stepped up. About 10000 ha. could be additionally brought under soil conservation through this scheme during the last 3 years. The total area brought under soil conservation through various departmental programmes during 1993-94 works out to 9017 ha. against 7700 ha. covered in 1992-93. The implementation of the centrally sponsored scheme for watershed management need to be accelerated so as to cover the entire 52000 ha. targeted for the Eighth Plan on schedule. In the context of Kerala where almost all cultivable lands are under some crops it may not be proper to consider soil conservation in isolation. It should form an integral component for all crop development programmes.

Soil Survey

4.55 Soil survey work is in progress covering 2.45 lakh ha. under reconnaissance survey and 0.60 lakh ha. under detailed soil survey during 1993-94. A collaborative project with the Kerala Agricultural University on Adaptive Research on Benchmark Soils of the State to evolve crop and fertility management recommendations was also under implementation during the year.

4.56 Land capability study of Kasaragod and Palakkad districts has been completed by the Land Use Board and soil and other thematic maps were published. Land capability classification of the State suggested by the Land Use Board based on the recent soil resource map brought out by the National Bureau of Soil Survey and Land use Planning and the State Soil Survey organisation is given in Table 4.27

Table 4.27

Land Capability of Kerala

| Land capability sub-class association | Area | |
|---|---------|-------|
| | Ha. | % |
| IIIe - IIe | 254930 | 6.57 |
| IIIw - IIIsw | 34560 | 0.88 |
| IIIw - IIIes | 123380 | 3.17 |
| IIIsw - IIIs | 1840 | 0.04 |
| IIIsw | 118410 | 3.06 |
| IIIes | 1125630 | 29.50 |
| IIIs - IVw | 11480 | 0.30 |
| IIIes - IVes | 294990 | 7.59 |
| IVes - IIIs | 12010 | 0.30 |
| IVsw - IIIsw | 44940 | 1.15 |
| IVe - | 136850 | 3.52 |
| IVsw - IVs | 174010 | 4.49 |
| IVes | 329520 | 8.48 |
| IVsw - VIsw | 43000 | 1.11 |
| IVes - VIes | 83160 | 2.14 |
| IVes - VIII | 275330 | 7.07 |
| VIe - VIes | 458520 | 11.79 |
| VIe - VIII | 333850 | 8.60 |
| Thiruvananthapuram urban area and water bodies | 29140 | 0.74 |

KEY to land capability classes

| | |
|--|---|
| Class II | good cultivable land |
| Class III | Moderately good cultivable lands |
| IV | Fairly good, cultivable lands |
| VI | Well suited for forestry or grazing |
| VIII | Lands suited only for wildlife and recreation |
| KEY to land capability sub class symbols | |
| e | - erosion and runoff; s - soil; |
| w | - wetness/drainage |

4.57 The resource survey and mapping taken up by the Centre for Earth Science Studies

with people's participation has been completed in 85 panchayats and maps and reports have been made available for 15 panchayats. Survey work is in progress in the remaining 78 panchayats.

ANIMAL HUSBANDRY

4.58 Livestock development as a household activity had a long tradition in Kerala. The density of livestock population in Kerala is higher than the national level. According to the latest livestock census conducted 1987 the state accounts for 1.75% of cattle, 0.43% of Buffaloes 1.59% of Goats, 1.27% of Pigs and 6.62% of Poultry in the country. Kerala is thus holding a cattle population beyond its carrying capacity. (table 4.28).

Table 4.28
Livestock Population of Kerala
Vis-a-Vis All India

| Species | 1982 | | | 1987 | | |
|---------|---------|--------|------|---------|--------|------|
| | India | Kerala | % | India | Kerala | % |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| Cattle | 1924.50 | 30.97 | 1.61 | 1968.70 | 34.24 | 1.75 |
| Buffalo | 697.80 | 4.08 | 0.59 | 767.70 | 3.29 | 0.43 |
| Goats | 852.50 | 20.04 | 2.10 | 964.10 | 15.81 | 1.59 |
| Pigs | 100.70 | 1.27 | 1.26 | 107.60 | 1.37 | 1.27 |
| Poultry | 2077.40 | 145.10 | 6.98 | 2683.40 | 170.02 | 6.62 |

Sources: (i) Livestock Census 19982 and 1987
(ii) Report of the Technical Committee of direction For Improvement of Animal Husbandry and Dairying Statistics, Government of India.

A gradual reduction in the cattle population without in any way affecting the production of milk through systematic improvement in productivity of the remaining stock was the right approach to be pursued in such a situation. Productivity improvement could be aimed through either herd improvement or better management. The State opted for the first one and genetic improvement through artificial insemination with exotic breeds was accepted as the main strategy. Expansion of cross breeding facilities and strengthening veterinary services are the two important support facilities contemplated for the

purpose. The frozen semen technology perfected under the Indo-Swiss Project paved the way for a silent transformation of the low yielding indigenous dairy cattle into high yielding cross bred cows. As on today 62% of the breedable dairy cattle are cross-breeds in Kerala. The herd improvement efforts thus set the ground for increased milk production. The production of milk in Kerala was thus in an increasing trend during the last 3 decades. The production which was 10.78 lakh tones in 1982-83 increased to 20.01 lakh M.T. in 1993-94. The percapita per diem availability of milk also increased from 126 gm to 184 gm during the period. The KLD Board has been entrusted with the responsibility for large scale production and distribution of frozen semen and the Department of Animal Husbandry is responsible for insemination through its ICD Projects and AI Centres. Till the end of 1993-94 the ICDP supported 2037 Artificial Inseminations Centres and the number of artificial insemination done through these centres was 13.52 lakhs. It is reported that there is about 3 lakh calvings of cross bred animals in a year now in Kerala. Progress of work under these programmes is given in Table 4.29.

Table 4.29
Number of Artificial Inseminations done
and the calving recorded during the period
from 1987-88 to 1993-94

| Year | AI done | Calvings recorded |
|---------|---------|-------------------|
| 1987-88 | 1170887 | 195929 |
| 1988-89 | 1203755 | 238473 |
| 1989-90 | 1251492 | 243055 |
| 1990-91 | 1312613 | 221876 |
| 1991-92 | 1376761 | 262549 |
| 1992-93 | 1233760 | 261286 |
| 1993-94 | 1351831 | 303331 |

Source: Animal Husbandry Department.

4.59 Apart from the frozen semen technology, the KLD Board is also engaged in livestock research and development activities like embryo transfer, production of liquid nitrogen, fodder seed production and conducting training programmes. During 1993-94 the KLD Board introduced a new programme namely Premium Bull AI Programme

with the objective of providing frozen semen of superior genetic quality for impregnating the superior cows available with the dairy farmers. This special service is being extended through 62 AI Centres specially designated for the purpose. The Board maintains three bull stations in Mattupetty, Dhoni and Kulathuppuzha. During the year the Board produced 26.81 lakh doses of frozen semen and distributed 14.99 lakh doses within the State. The year-wise details are given in the table 4.30.

Table 4.30

Production and utilisation of Frozen semen and the Number of Artificial Inseminations conducted during the period from 1987-88 to 1993-94

| Year | Production of Frozen Semen (lakh doses) | Utilisation of Frozen Semen in Kerala (lakh doses) | Number of Artificial Inseminations conducted. (lakh Nos) |
|---------|--|---|---|
| 1987-88 | 15.29 | 13.80 | 13.11 |
| 1988-89 | 20.12 | 13.64 | 12.96 |
| 1989-90 | 23.45 | 14.29 | 13.58 |
| 1990-91 | 15.52 | 15.95 | 15.00 |
| 1991-92 | 26.57 | 15.92 | 15.12 |
| 1992-93 | 29.43 | 14.61 | 13.88 |
| 1993-94 | 26.81 | 14.99 | 14.24 |

Source: *KLD Board.*

4.60 The production of frozen semen has been reduced from 29.43 lakh doses in 1992-93 to 26.81 lakh doses during 1993-94 for want of adequate demand from outside the State. The internal consumption is more or less stagnant around 14 - 15 lakh doses in recent years. The production and distribution inside and outside the State is shown in table 4.31.

Table 4.31

Production and Distribution of Frozen Semen and Artificial Insemination conducted from 1987-88 to 1993-94

| Period | Production of Frozen Semen (lakh doses) | Distributed inside the State (lakh doses) | Distributed outside the State (lakh doses) |
|---------|--|--|---|
| 1987-88 | 15.29 | 13.80 | 3.44 |
| 1988-89 | 20.12 | 13.64 | 6.48 |
| 1989-90 | 23.46 | 14.29 | 7.80 |
| 1990-91 | 25.52 | 15.92 | 6.75 |
| 1991-92 | 26.57 | 15.92 | 8.15 |
| 1992-93 | 29.43 | 14.61 | 9.90 |
| 1993-94 | 26.81 | 14.98 | 9.90 |

Source: *KD Board*

4.61 While the KLD Board is solely responsible for the production and supply of frozen semen, the A.I service is rendered by agencies other than Animal Husbandry Department as well. The Department of Animal Husbandry which supports 1861 A.I Centres is the leader. Agencies like Milk Unions and Private agencies such as the TATA Tea also operate 176 A.I Centres. The total number of AI Centres at the end of the year 1993-94 is 2037. Agency-wise details of A.I Centres are given in table 4.32.

Table 4.32

A.I Centres in the state during 1993-94

| Department/Institution | Number of A.I Centres |
|--|-----------------------|
| Department of Animal Husbandry (Both ICDP and Non-ICDP) | 1861 |
| Department of Dairy Development | 50 |
| APCOS | 61 |
| Tata Tea | 27 |
| Other Voluntary Agencies | 38 |
| Total | 2037 |

Source: *Department of Animal Husbandry.*

4.62 The State could maintain the upward trend in the production of livestock products during 1993-94 as well. Milk production rose from 18.89 lakh tonnes in 1992-93 to 20.01 lakh tonnes during 1993-94. Egg production increased from 1661 million to 1844 million during the period. Among the livestock products meat is the only item which is not keeping pace with other products. Increase in Meat production increased from 1.05 lakh tonnes to 1.06 lakh tonnes only during 1993-94. Kerala being an important market for livestock meat it is high time for the State to pay more attention to meat production. Broiler poultry, piggery and male calf rearing for meat purposes etc. offer tremendous scope for development in Kerala. Keeping in time with the long tradition the activity could be promoted on a homestead basis in selected pockets. The year-wise details of livestock products are presented in the table 4.33

Table 4.33

Year-wise estimates of Milk, Egg and Meat production in Kerala during the past five years (from 1989-90 to 1993-94)

| Year | Milk (Lakh tonnes) | Egg (million Nos.) | Meat other than Poultry (tonnes) | Poultry Meat (tonnes) |
|---------|--------------------|--------------------|----------------------------------|-----------------------|
| (1) | (2) | (3) | (4) | (5) |
| 1989-90 | 16.00 | 1500 | 90,000 | 20000 |
| 1990-91 | 16.90 | 1550 | 95,000 | 22000 |
| 1991-92 | 17.85 | 1605 | 96,645 | 24000 |
| 1992-93 | 18.89 | 1661 | 1,05,000 | 26000 |
| 1993-94 | 20.01 | 1844 | 1,06,255 | 28000 |

Source: Department of Animal Husbandry.

4.63 Though the infrastructure and supporting facilities built up over the years helped in attaining a break through in production of milk, the productivity remained far below the potential. The average productivity of cross breeds in Kerala is 5.26 Kg. which is far below the potential. Obviously care and management of the cross bred animals need better attention for securing optimum results. Kerala State has a very fragile fodder base and the scope for further improvement in production and supply is also limited. The steep fall in area under rice has further aggravated the problem by reducing the supplies of paddy straw. In the matter of concentrated feed also the State is not self-sufficient and the supplies are erratic and costly.

4.64 The KLD Board multiplied and supplied 68 MT of fodder seed, identified 51 superior cross breeding bulls after progeny testing and produced 21 calves adopting the embryo transfer technology using imported embryos from Denmark.

4.65 The Animal Health Care Programmes are implemented by the department of Animal Husbandry through the network of veterinary institutions comprising veterinary poly clinics, veterinary hospitals, Mobile Farm Aid Units and District Veterinary Clinics. In Veterinary services the increasing trend has been by and large maintained. During 1993-94 animals treated increased from 32.98 lakhs cases in 1992-93 to 33.26 lakhs; operations performed increased from 1.10 lakhs to 1.12 lakhs, castrations from 11782 to 12245, vaccinations for livestock from

20.10 to 23.49 lakhs. Poultry vaccination is the only item showing a decrease from 65.15 to 46.47 lakhs during the year. The production of livestock inputs from the departmental units present a very dismal picture with a decline from 20.96 lakhs to 18.16 lakhs which includes that from 113.02 to 90.70 lakhs in poultry vaccine and from 21.23 to 14.89 lakhs in livestock vaccine and from 36959 tonnes to 30227 tonnes in poultry feed production. Details are furnished in appendix 4.7.

4.66 In accordance with the policy of establishing one veterinary institution in each panchayat 50 new dispensaries have been started during 1993-94, 200 infertility camps and 2000 Goreksha camps were organised to manage the infertility problems. During 1993-94, 2.12 lakh systematic vaccinations and 76531 containment vaccinations were administered against Foot and Mouth disease. The containment vaccinations and ring vaccination are being carried out in order to prevent the spread of disease.

4.67 In the case of egg production the State could not make any breakthrough thus making it dependent on neighbouring States to meet substantial portion of its demand. The traditional backyard system of poultry rearing needs a new orientation and commercial touch to make it viable and sustainable. Distribution of day old chicks is the only activity now being supported and during 1993-94 about 7.5 lakh chicks were distributed.

4.68 Livestock Insurance Scheme for cattle introduced through the United India Insurance Company is getting popular among the small and marginal farmers. Under the scheme 92407 calves were enrolled till the end of 1993-94. Details are furnished in the table 4.34.

Table 4.34

Year-wise Details of calf insurance

| Year | No. of calves insured under feed subsidy | Amount subsidised (Rs. in lakhs) |
|---------|--|----------------------------------|
| 1987-88 | 1432 | 0.645 |
| 1988-89 | 2186 | 0.992 |
| 1989-90 | 4115 | 2.007 |
| 1990-91 | 4769 | 2.385 |
| 1991-92 | 11431 | 11.43 |
| 1992-93 | 1673 | 1.67 |
| 1993-94 | 25000 | 25.00 |

Source: Department of Animal Husbandry.

4.69 The average market price of the live-stock products as well as livestock feeds for the last three years are given in appendix 4.8. Both the product prices and feed prices showed an increasing trend.

DAIRY DEVELOPMENT

4.70 Promotion of fodder cultivation is one of the major responsibilities assigned to the Dairy Department. The fodder base in Kerala is very weak and the scope for bringing substantial area under cultivation is also limited. Enrichment of the fodder base through a multi pronged approach of encouraging homestead cultivation, commercial production through milk co-operatives, conservation of house wastes for feeding cattle, preservation of green matter etc. is being pursued. Commercial fodder production initiated by the Dairy Department involving selected dairy co-operatives and arranging the market tie-up through them is slowly picking up. During 1993-94 nearly 650 ha. was brought additionally under fodder cultivation. In the sewage farm Valiyathura 88 acres were brought under fodder cultivation and 4937 MT of fodder was produced. Details of fodder production are furnished in table 4.35.

Table 4.35

Production Procurement of fodder and Area under Fodder Cultivation

| Year | Qty. of seeds produced (MT) | Qty. of seed supplied to farmers (MT) | Area covered under fodder (Ha) | Qty. of Fodder produced (MT) |
|---------|-----------------------------|---------------------------------------|--------------------------------|------------------------------|
| 1989-90 | 36.16 | 150.00 | 4060 | 101500 |
| 1990-91 | 48.01 | 100.00 | 3800 | 100000 |
| 1991-92 | 56.73 | 100.00 | 3780 | 99500 |
| 1992-93 | 68.30 | 100.00 | 6844 | 151000 |
| 1993-94 | 67.66 | 100.90 | 6500 | 171000 |

Source: KLD Board and Dairy Development.

4.71 Both Dairy Department and KLD Board have continued their training programmes during 1993-94. In the training institutions of KLD Board at Mattuppatty and Dhoni 472 professionals and technicians were given training. In the four Dairy Training Centres of the Department viz., Kozhikode, Palakkad, Kottayam and Thiruvananthapuram 4068 persons were trained.

4.72 Milk Co-operatives have emerged as a strong movement in Kerala. There are 2379 societies by the end of 1993-94 with a membership of 5.28 lakhs.

Supply of Cattle Feed

4.73 The K.C.M.M.F has raised the processing capacity of its Cattle Feed Plant at Thuravoor from 100 MTD to 300 MTD during the year. The total production sale during 1993-94 was about 50,000 MT.

Milk Marketing

4.74 Kerala Co-operative Milk Marketing Federation is the implementing agency of Operation Flood III Programmes in Kerala with technical and financial assistance from National Dairy Development Board. The Federation operates through its 1709 Anand Pattern Milk Co-operative Societies with a membership of 4.33 lakhs. The performance of KCMMF in the field of procurement and sale of milk during the year is commendable. It recorded a growth rate of 12.7% in procurement and 10.5% in sale during 1993-94. The details are furnished in appendix 4.9.

4.75 The services rendered by KCMMF in the field of veterinary health care is noteworthy. The Federation operates 17 regular veterinary routes for free veterinary aid to the members of the milk societies. During 1993-94 about 3188 animals were treated. Further more 17 emergency routes were also operated. The performance of KCMMF is furnished in the table 4.36.

4.76 The price paid by KCMMF for procurement and received for sale of milk during the last three years are given in table 4.37.

Table 4.36
Performance of KCMMF

| Sl.No. | Particulars | 1990 | 1991 | 1992 | 1993 | 1994 |
|--------|--|--------|--------|--------|--------|---------|
| 1. | No. of Apcos registered (cum) | 1151 | 1305 | 1500 | 1619 | 1709 |
| 2. | No. Apcos functional | 1068 | 1283 | 1471 | 1523 | 1606 |
| 3. | No. of Members in apcos (cum) | 254183 | 300433 | 351883 | 382898 | 432793 |
| 4. | No. of Women in Apcos | 27419 | 35083 | 44287 | 47600 | 58554 |
| 5. | No. of SC/ST Members in Apcos | 16984 | 18952 | 22976 | 25121 | 24878 |
| 6. | Average Milk procured/ day by KCMMF (litre) | 233739 | 224818 | 309732 | 355200 | 486679 |
| 7. | Average Milk marketed/day | 269765 | 291685 | 320763 | 390700 | 409434 |
| 8. | Direct Employment Generated (persons) | 2595 | 2903 | 3283 | 3608 | 3600 |
| 9. | Average price paid to SOC/Lt./ (Rs./Ps) | 4.27 | 5.31 | 6.34 | 6.34 | 7.10 |
| 10. | Average price paid to producers/litre (Rs./Ps) | 4.15 | 5.18 | 6.15 | 6.15 | 6.97 |
| 11. | Mobile regular vety route | 19 | 19 | 18 | 18 | 17 |
| 12. | No. of cases treated by regular routes (Yearly) | 25103 | 29686 | 35205 | 38348 | 31883 |
| 13. | No. of emergency vety route | 13 | 13 | 13 | 19 | 17 |
| 14. | No. of cases treated yearly | 225132 | 194444 | 206718 | 557698 | 189528 |
| 15. | Cattle feed sales (MT) | 45931 | 44139 | 47439 | 42626 | 50000 |
| 16. | QTY of ghee produced | 616086 | 794990 | 830805 | 862080 | 1080000 |

Table 4.37

Average price of milk paid by KCMMF

| Year | Procurement/litre (Rs) | Sale/litre (Rs.) |
|---------|---------------------------|---------------------|
| 1991-92 | 4.95 | 7.00 |
| 1992-93 | 5.66 | 8.00 |
| 1993-94 | 6.95 | 9.00 |

FISHERIES

4.77 Kerala with a coast line of over 590 km plays a very significant role in the Fisheries Industry of India. The extent of the continental shelf zone upto a depth of 200 metres in the Kerala Sea is roughly 36000 sq.km which includes 13000 sq.km of inshore

and 23000 sq.km of off shore area. As the slope of this zone is gradual particularly upto the depth of 80 to 90 meters it is considered to be suitable for all types of fishing operations. The world famous Wadge Bank is situated within the exploitable limit of Kerala. the mud banks ('chakara') surfacing abundance of particular species of fish recurring from year to year at many a place between Kollam and Karunur is a phenomenon peculiar to Kerala. The State is also endowed with vast area of Inland water spread extending over 3.61 lakh ha. Kerala thus possesses all the natural endowments required for a vibrant fish industry. But unfortunately fisheries development in the State has been mostly confined to capture fisheries and related activities in the inshore sector.

4.78 The total fishermen population in Kerala is estimated to be 9.85 lakhs (1991) which accounts for 3.36% of the total population in the State. the per

capita availability of fishable area in the marine sector is only 10 ha in Kerala as against the national average of 37 ha. Details of district-wise distribution of fishermen population in Kerala is furnished in appendix - 4.10.

4.79 The total marine fish catch by both mechanised and non-mechanised vessels along Kerala coast touched a peak of 6.63 lakh tonnes in 1990, but declined there after and reached level of 5.75 lakh tonnes in 1993. This clearly shows that indiscriminate exploitation of fisheries wealth beyond a certain limit is not sustainable. There are reports in recent times about declining trends in the catch and effort and catch per unit effort in Kerala coast which are clear indications of overfishing. Eventhough the fish production in physical terms is more or less stagnant during the last 5 years, it has not reflected to that extent in the income stream from the sector. The income from fisheries sector for the period, on the other hand, shows an increasing trends. The increase was from Rs. 93.80 crores in 1990-91 to 120 crores during 1993-94. The increase in income despite fall in output may be due to the shift observed in the composition of fish catches from low value high volume fishes to high value low volume types. At the same time the fact remains that the State could not exploit the full potential of around 56000 tonnes of prawns which is a high value exportable items. The statistics for 1993 reveal that the prawn catch has further come down to 48000 tonnes. Species-wise landings of marine fish for the period 1992, 1993 and 1994 (from January to March) are furnished in appendix 4.11.

4.80 The Inland water spread is estimated to be around 3.6 lakh ha. They include back waters, lakes and estuaries (2.42 lakh ha) reservoirs (29635 ha) tanks and ponds (3300 ha) and rivers (85000 ha.). Inland sector is still following the traditional lines without any serious effort for induction of appropriate technology leading to commercialisation. Activities contemplated under the Kuwaity fund assisted project and supported in a limited scale under the fish farmers development agencies are perhaps the only exception. Consequently the inland fish production is hovering around 0.4 lakh tonnes during the last decade. It was 40365 tonnes during 1991-92 which rose to 42390 tonnes in 1992-93 and 45482 tonnes in 1993-94. Species-wise details of inland fish production are furnished in Appendix 4.12.

4.81 Fisheries development pursued by the State in the past was not backed by a well laid down policy paradigm. For want of clear direction and transparency some of the issues which have a vital bearing on the development of the sector remain unresolved. Governments in power from time to time preferred to post pone the issues rather than finding settlements on rational basis. A stage has come where further growth of the sector is possible only through clear cut policies supported by time bound action plans. It is on this basis the State Government has come out with a policy statement on fisheries in 1994. The thrust of the new policy is to chart a course of action which will restore the vitality and dynamism of the sector. A number of measures have been announced as part of the policy with focus on sustainability of the resource base, viability of the industry, provision of a decent level of living to the fishermen and ensuring adequate supply of fish for consumption and export.

4.82 The important highlights of the policy are:

- (i) Introduction of a system for regular assessment and monitoring of the marine and inland fishery resource potential and sustainable yield.
- (ii) Promotion of cage and pen culture in reservoirs and tanks.
- (iii) Setting up of seed production and feed production centres to meet the growing demand.
- (iv) Priority and tariff concession for electric connection for aquaculture on par with agriculture.
- (v) New incentives for off shore and deep sea fishing.
- (vi) Making the inland water bodies Pollution Free through "Polluter pays" principle.
- (vii) Strict enforcement of the clause for registration of all fishing crafts.
- (viii) Ceiling on the number fishing units owned by a family.
- (ix) Setting up of fishery banks.

- (ix) amendment of Kerala Fishing Regulation Act 1980 to meet the emerging challenges.
- (xi) Setting up of permanent fishery stations for the strict enforcement of the Act.
- (xii) Banning of bottom trawling during monsoons.
- (xiii) Introduction of a unified Act for inland fisheries regulation.
- (xiv) Allowing a short term lease period of 5 to 7 years and a long term lease period of 15 years and above for fish farming in water bodies owned by local bodies.
- (xv) Enactment of a comprehensive Fish and Fish products Market Act.
- (xvi) Setting up of fisheries service centres in all the fishing villages.
- (xvii) Vesting the management of fishing harbours with a Fisheries Terminal Authority.
- (xviii) Transfer of public sector ice plants to co-operatives.
- (xix) Setting up of 'Bhavana Nirmithi Fund for supporting the housing programme of fishermen.
- (xx) Establishment of Malsya Bhavans on the line of Krishi Bhavan by bringing all the agencies connected with fisheries under one roof.

4.83 The Kuwait Fund assisted Kerala Fisheries Development Project for Prawn culture implemented through ADAK is a major step in the inland sector. Though the project faced a setback in the beginning, now it has gained momentum. Under the project micro level surveys have been completed to identify the potential areas for culture fisheries on commercial lines. As per the survey the area available for immediate exploitation for brackish water prawn culture has been estimated to be around 65000 ha. District-wise details are given in table 4.38

Table 4.39

| Sl. | Name of Dist. | Area Available Brackish water prawn culture (ha.) | Area which can be utilised immediately (ha.) |
|--------------|--------------------|---|--|
| 1. | Thiruvananthapuram | 1423.98 | - |
| 2. | Kollam | 8603.62 | 24.00 |
| 3. | Alappuzha | 16222.92 | 475.35 |
| 4. | Kottayam | 4326.72 | 15.38 |
| 5. | Ernakulam | 16212.71 | 10597.01 |
| 6. | Thrissur | 4271.94 | 898.21 |
| 7. | Kozhikode | 4162.44 | - |
| 8. | Kannur | 5944.10 | 501.51 |
| Total | | 61168.43 | 12511.46 |

4.84 Identification of the locations for the four hatcheries envisaged under the project as well as development of appropriate models for commercial operations have been completed. Trial runs of the commercial cultural operations have been made in 90 ha. in Thrissur and Kannur districts. The trials have brought out very encouraging results. The Agency for Development of Aquaculture Kerala (ADAK) has already received over 100 applications from private entrepreneurs for participation in the project availing the technology and other assistance under the project.

4.85 Out of 61000 ha. of potential areas identified by ADAK through their survey nearly 16000 ha. are in Ernakulam district. The traditional pokkali lands where a traditional system of paddy and prawn filtration combined system is in vogue constitutes around 12000 ha. In order to give a commercial setting for this traditional system a new scheme was announced in 1993-94. Preliminary studies for launching the scheme are in progress.

4.86 The German assisted Reservoir Fisheries Development Project under implementation in five reservoirs of Palakkad and Thrissur districts was another major activity taken up in the inland sector during the last 2 years. The implementation of the project is in progress and the German team which visited the State in 1993 evinced interest in extending the scheme to few more reservoirs.

4.87 Export of marine products from the country reached an all time record of 2.43 lakh tonnes in 1993-94 compared to 2.08 lakh tonnes in 1992-93. The share of Kerala was 63809 tonnes and 49094 tonnes respectively. Kerala's contribution during 1993-94 showed an increase of 14715 tonnes (30%) over the previous year, whereas the all India increase was only 35358 tonnes (16.95%). In terms of value also the share of Kerala has increased from Rs.414.25 crores (23.43%) to Rs. 621.53 crores (24.83%). Details of exports for the last ten years are furnished in Appendix 4.13.

4.88 Matsyafed an apex body of the Fishermen Welfare and Development cooperatives implement schemes for the development of inland as well as marine fisheries in the state. The Federation has 5 district offices and 317 village level (marine and inland) Fishermen Development and Welfare cooperatives in the State. The details are furnished in appendix 4.14.

4.89 Among the various schemes implemented by Matsyafed the NCDC assisted 'Integrated Fisheries Development Project' is the most important one. The main objectives of the scheme are increasing marine fish production and improving the welfare of traditional fishermen. The first and second phases of the project are over. Now the third phase is under implementation at a total cost of Rs. 3560 lakhs. Under phase I an amount of Rs. 556 lakhs was spent as subsidy and loan for the supply of inputs to 850 groups covering 4577 fishermen. Under phase II an amount of Rs. 1034 lakhs was spent as subsidy and loan benefiting 591 groups covering 7373 fishermen. Under phase III an amount of Rs. 1311 lakhs has been spent as on 31.3.94 for the benefit of about 6048 fishermen. Details of achievement under the Integrated Fisheries Development project are provided in Appendix 4.15.

4.90 Housing is another important activity among the Welfare activities of the Federation. HUDCO assisted 'Subsidised Housing Scheme' is implemented by Matsyafed. A total of 28302 houses have been completed by March 1994 under this scheme. Another Housing scheme, 'NFWF assisted housing with 50% central assistance' is also under implementation. A total of 914 houses have been completed by March 1994.

4.91 The Welfare activities supported by Fishermen Welfare Fund Board during 1993-94

include old age pension for 27000 persons, Special assistance to 440 fishermen for the marriage of their daughters, Group Insurance claims for 72 death cases and assistance for 28 cases of deaths during fishing. Under the various relief and Welfare Schemes implemented by the Welfare Board an amount of Rs. 3.14 crores was spent for the benefit of 28969 persons. The details of physical and Financial achievements of the Board are furnished in appendix 4.16.

Fishing Harbours and Landing Centres

4.92 Vizhinjam, Neendakara, Thankassery, Puthiyappa, Munambam, Chombal and Mopla Bay are the Fishery Harbours under construction. All these harbour projects are targeted to be completed by the end of VIII Five Year Plan. The work of Fish Landing Centres for traditional fisherman at Chaligopalpettah, Arthungal and Quilandy are in progress and is expected to be completed during 1995-96. Fish Landing Centres for mechanised boats at Chettuvai is in progress and will be completed during 1995-96. Since the inception of these projects an amount of Rs. 5086 lakhs has been spent. Details of physical and Financial Achievements under Harbour Engineering are given in appendix 4.17.

FORESTRY AND WILDLIFE

4.93 Kerala is endowed with a magnificent and versatile forest ecosystem covering nearly a quarter of its geographical area. The area under Forest as per the forest statistics 1994, is 11241.97 sp. Kms. comprising of 9162.19 Sq. Kms. of Reserve Forests, 183.08 Sq. Kms. of proposed Reserve and 1896.70 Sq. Kms. of vested forests. A marginal increase of 21.35 sq.kms. of forest area over 1993 has been reported. The details of division-wise forest area in Kerala is furnished in Appendix 4.18.

4.94 Even though in overall forest cover, the State is in a much better footing compared to other regions in the country, the per capita availability of forest is a meagre of 0.04 ha. which is less than 50 percent of the all India per capita forest area of 0.09 ha.

4.95 The dichotomy between the area classified as forests as per land records and the actual forest cover had always been a matter of controversy in the past. The assessments made by the Forest Survey of India from time to time using

remote sensing data bring to light interesting observations in this regard. The State Forest Report published by them for the years 1991 and 1993 indicates that Kerala is in a better position compared to many other States in the country. The variation in recorded forest area and actual vegetation cover as published by the Organisation for the years 1991 and 1993 are given in table 4.39.

Table 4.39

**Recorded Forest Area and Actual Vegetation Cover,
Comparative situations**
(Area in Sq. Kms.)

| Sl. No. | State/Union Territories | Recorded Forest Area | | Actual Vegetation cover | |
|---------|-------------------------|----------------------|--------|-------------------------|--------|
| | | 1991 | 1993 | 1991 | 1993 |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Andhrapradesh | 63726 | 63726 | 47290 | 47256 |
| 2. | Himachal Pradesh | 37591 | 37591 | 11780 | 12502 |
| 3. | Assam | 30708 | 30708 | 24751 | 24508 |
| 4. | Kerala | 11222 | 11222 | 10292 | 10336 |
| 5. | Mdhya Pradesh | 155414 | 155414 | 135785 | 135396 |
| 6. | Maharashtra | 63861 | 63861 | 44044 | 43859 |
| 7. | Tamil Nadu | 22699 | 22699 | 17713 | 17726 |
| 8. | Uttar Pradesh | 51502 | 51502 | 33609 | 33961 |
| | All India | 770078 | 770078 | 639182 | 640107 |

4.96 The report of the Forest Survey of India also reveals that there is slow but steady quality and quantity improvement in the forest cover of Kerala in recent years. The assessment for 1993 shows that there was an increase of 44 Sq. Km. in the forest cover over the assessment in 1991. The increase has been in the category of forest with a crown density of 10 to 40 percent. It rose from 1971 Sq. Kms. in 1991 to 1915 Sq. Kms. in 1993.

4.97 The Revenue from the forest Department has increased considerably in recent years. It was Rs. 29.67 crores during 1990-91. It rose to Rs. 45.31 crores in 1991-92, Rs. 78.71 crores in 1992-93 and to Rs. 102.95 crores in 1993-94. This remarkable achievement is due to the management policy adopted during the VIII Plan. Under the policy importance was given for the conservation of natural forests, increasing their productivity, regeneration of degraded forests etc. The details of forest revenue during the last two years are given in appendix 4.19.

4.98 Among the various forest produces Reeds, Bamboo and Sandalwood showed considerable increase over the last year, whereas Timber,

Charcoal and Cardamom registered decrease over 1992-93 production. Major produces from the Kerala forest in 1993-94 include reeds (6.47 crores), bamboo (15.19 lakhs), honey (66.00 tonnes). Details of production of major forest produce for the last four years are furnished appendix 4.20.

4.99 The area under forest plantations has been estimated to be 1.55 lakh ha. Teak is the prominent species occupying 48.33% followed by Eucalyptus (18.74%). The details of species-wise area under forest plantations are furnished in appendix 4.21.

4.100 In order to implement the forest protection and fire control measures effectively, 88 forest stations were started at important forest areas. These forest stations were equipped almost in line with that of Police Stations and the required infrastructure facilities were also provided. Fire control measures have been taken in 6747 ha. and 7887 cairns have been erected for protecting the forest boundaries.

Wildlife

4.01 There are about 11 wildlife sanctuaries, one Tiger Reserve and two National Parks in the State, covering an area of 224716 ha. which accounts for about 20% of the total recorded forest area in the State. Thekkady Wildlife Sanctuary is the largest with an area of 77754 ha., Chimmony is the smallest with an area of 1000 ha. Sanctuary-wise details are furnished in appendix 4.22 Steps have been taken to protect and preserve the Wildlife, especially those species which are on the verge of extinction. New programmes like 'Project Elephant' for the protection of elephants 'Establishment of Biodiversity Centre' for the overall development of the Wildlife system in the State have also been taken up during 1993-94 with 100% assistance from the Central Government.

Social Forestry

4.102 The World Bank aided Kerala Social Forestry, Project started in 1984 was completed in March 1993, with a cumulative expenditure of Rs.91.55 crores and physical achievement of 32028 ha. of Government plantations and 73087 ha. equivalent of farm forests.

AGRICULTURAL MARKETING

4.103 In the absence of an organised industrial net work for processing the agricultural products, most of the commodities produced in the State move out of Kerala in their raw form for processing and distribution. As the cropping pattern of Kerala is predominated by export oriented cash crops and their production is concentrated in the small farm sector, marketing support is critically important for Kerala Agriculture. In the context of the fast changes that are taking place in the farm front towards commercialisation and multilateral trading arrangements the State is finding it extremely difficult to maintain its share in the market for commodities like pepper, ginger, rubber, cardamom and cashewnut in which the State had a near monopoly in the past. Many of them are facing severe competition in the global market as well as domestic markets. 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. Even though co-operatives are operating in the market they are yet to gain any effective control on the market forces.

4.104 The main agencies functioning in the co-operative sector for marketing of agricultural produce are The Kerala State Co-operative Marketing Federation Limited (MARKETFED). The Kerala State Co-operative Rubber Marketing Federation Ltd., (RUBBERMARK) the Regional Agro Industrial Co-operative of Kerala Ltd. (RAIDCO), Central Arecanut and Cocoa Marketing and Processing Co-operative Limited (CAMPCO), Kerala Kera Karshaka Co-operative Federation Limited (KERAFED) and Cashew Apex Industrial Co-operative Society (CAPEX). The commodities handled by the Kerala State Co-operative Marketing Federation Ltd. include copra, pepper and other spices. The business handled by MARKETFED during 1992-93 and 1993-94 are given in Table: 4.40.

Table 4.40

Commodities handled by MARKETFED

| Sl.No. | Commodity | 1992-93 | | 1993-94 | |
|-------------------|------------------|--------------|-----------------|-------------|-----------------|
| | | Quantity MT. | Value Rs. lakhs | Quantity MT | Value Rs. lakhs |
| I Purchase | | | | | |
| 1 | Copra | 2005 | 400.00 | 1792 | 2748.00 |
| 2 | Pepper | 202 | 41.00 | 300 | 210.00 |
| 3 | Cardamom | 7 | 28.00 | 10 | 35.00 |
| 4 | Cashew | 25402 | 6388.00 | 20994 | 4876.00 |
| Sales | | | | | |
| 1 | Fertilizer | 44022 | 1554.00 | 36174 | 1220.00 |
| 2 | Pesticides | | 191.00 | | 1007.00 |
| 3 | Coconut oil | 615 | 266.00 | | 402.00 |
| 4 | Coconut Oil Cake | 420 | 17.00 | | 33.00 |

4.105 The Rubber Marketing Federation together with 35 member societies is engaged in procurement and Marketing of rubber. The activities of the Federation include procurement and marketing of Rubber, distribution of fertilizer and agricultural inputs. The RUBBER MARK has considerably increased its volume of business during 93-94 compared to the previous year as could be seen in Table 4.41.

Table -4.41

Details of Procurement of RUBBER MARK during 1992-93 & 1993-94

| Sl. No. | Commodity | 92-93 | | 92-94 | |
|---------|-----------|-------------------------|-------------------|----------------------|-------------------|
| | | Quantity (Rs. in lakhs) | Value (Rs. lakhs) | Quantity (Rs. lakhs) | Value (Rs. lakhs) |
| | Rubber | 29184 | 7675.00 | 41500 MT | 10419.00 |

4.106 The Central Arecanut and Cocoa Marketing and Processing Co-operative Limited (CAMPCO) is a joint venture which has its area of operation in Kerala and Karnataka. The Governments of Kerala and Karnataka are the shareholders of the organisation. The Head Office of the organisation is at Mangalore in Karnataka state. CAMPCO is mainly engaged in the procurement and sales of Cocoa and Arecanut. It has also one Chocolate Factory and one Factory for production of

Coppersulphate. The activities of CAMPCO during 1992-93 and 1993-94 are presented in Table 4.92.

Table 4.42

Business of CAMPCO during 1992-93 & 1993-94

| Sl. No. | Commodity | 1992-93 | | 1993-94 | |
|---------|-----------------|-----------|-------------------|-----------|-------------------|
| | | Qty. MTs. | Value (Rs. lakhs) | Qty. MTs. | Value (Rs. lakhs) |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Areca nut | 1628 | 10839.00 | 1795.73 | 9467.03 |
| 2. | Cocoa | | | | |
| | a) Cocoa pods | 13 | 4.00 | 4.98 | 1.80 |
| | b) Wet Beans | 85 | 127.00 | 215.19 | 286.66 |
| | c) Dry beans | 147 | 977.00 | 7.85 | 16.03 |
| 3. | Copper Sulphate | --- | --- | 92.775 | 41.50 |

Table 4.43

Production and Sales of Chocolate by CAMPCO during 1993-94

| Sl. No. | Item | Production | | Sales | |
|---------|---------------|------------|-------------------|-----------|-------------------|
| | | Qty (MTS) | Value (Rs. lakhs) | Qty (MTS) | Value (Rs. lakhs) |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Chocolates | 356.508 | 407.668 | 376.60 | |
| 2. | Semi finished | 390.955 | 403.390 | 397.98 | |

CAMPCO is manufacturing chocolate for NESTLE INDIA LIMITED. CAMPCO has produced 116 MTS. of Copper Sulphate during 1993-94.

4.107 The Regional Agro Industrial Cooperative of Kerala Ltd. (RAIDCO) is a Cooperative Organisation engaged in the production and distribution of agricultural implements. During 1993-94, RAIDCO distributed 4931 pumpsets, 3068 sprayers 573 Rubber Rollers and 60 tillers.

4.108 The Kerala Kerakarshaka Sahakara Federation (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) are the members of this Federation. Production enhancement efforts are handled by 18 mobile teams operating under the project. Share capital assistance of Rs. 1766.00 lakhs were given to PACS for organising procurement of Copra. Details of procurement of Copra by KERAFED is given in Table 4.44.

Table 4.44

Procurement of Copra by KERAFED (Tonnes)

| Year | Price Support | Commercial | Total |
|---------|---------------|------------|-------|
| 1 | 2 | 3 | 4 |
| 1989-90 | 5039 | 4045 | 9084 |
| 1990-91 | 19564 | 8926 | 28490 |
| 1991-92 | Nil | 24482 | 24482 |
| 1992-93 | Nil | 20091 | 20091 |
| 1993-94 | Nil | 22169 | 22169 |
| 1994-95 | 52100 | Nil | 52100 |

Source: KERAFED

Government of India declared support price for Copra in 1994 season as Rs. 2350/- per Quintal and procurement under this scheme started in April 1994 which continued till the 3rd week of November 1994. KERAFED is selling coconut oil in bulk all over the country. It is also selling coconut oil in container packets under the brand name 'KERA' in packs of sizes 1000gms, 1000ml, 500ml, 200ml, and 100ml. Medium size packages of 5 kg. and 15 kg. are also available. The details of Marketing of Coconut oil by KERAFED is given in Table 4.45

Table 4.44

Marketing of Coconut Oil by KERAFED

(in Tonnes)

| Year | Bulk Oil | Small packs | Total |
|----------------------------------|----------|-------------|-------|
| 1 | 2 | 3 | 4 |
| 1992-93 | 10087 | 270 | 10357 |
| 1993-94 | 8399 | 353 | 8752 |
| 1994-95 (Till November 94) | 5650 | 526 | 6176 |

Source: KERAFED

4.109 As regards the processing units, the first oil mill was commissioned at Karunagappally in Kollam district with capacity of 200 Tonnes of copra per day. The civil works and land Development works are completed for the other two units at Naduvannur in kozhikkode District and Vyttila in Ernakulam District. KERAFED's first product "2 stage

filtered Kera" has captured the market. Copra processed at Karumagappally factory was 15,220 Tonnes during 1992-93 and 14,641 Tonnes during 1993-94. The capacity utilisation so far achieved is hardly 25 per cent. The reasons for such a poor performance that too at a time when the commodity is of additional processing support for stabilising prices need to be examined for appropriate measures for correction. The scope for going in for another two plants needs to be reviewed and some modifications perhaps be considered for utilising the infrastructure being created for product diversification.

4.110 The Kerala State warehousing Corporation provides scientific storage facilities for agricultural commodities to farmers, co-operatives, producers, public sector undertaking etc. At present the corporation has 64 warehouses with a storage capacity of 2,22,149 MTs. Which includes 1,47,181 MTs owned by the corporation. Besides providing storage facilities the corporation has diversified its activities in areas such as clearing, fumigation service, transportation, procurement of agricultural produces, disinfestation extension services and construction of buildings for other institutions.

4.111 The grading of agricultural commodities under 'Agmark' scheme was continued through the state Agmark Grading Labs functioning in the state, The grading of the agricultural commodities done through these labs and private laboratories are furnished Table - 4.46

Table 4.46

Commodities graded under Agmark, 1986-87 to 1993-94

| Year | (Quantity in Quintals) | | | | |
|---------|------------------------|---------|-------|---------------|------|
| | Coconut Oil | Gingely | Honey | Ground spices | Ghee |
| 1986-87 | 33697 | 7459 | 366 | 1391 | --- |
| 1987-88 | 66990 | 10270 | 1496 | 1157 | --- |
| 1988-89 | 27840 | 404 | 615 | 511 | --- |
| 1989-90 | 27294 | 842 | 1964 | 511 | --- |
| 1990-91 | 15239 | 698 | 1467 | 1069 | --- |
| 1991-92 | 13289 | 4504 | 868 | 5117 | 164 |
| 1992-93 | 21005 | 851 | 777 | 3906 | 344 |
| 1993-94 | 6062 | 1591 | 513 | 1423 | 153 |

Source : Directorate of Agriculture, Kerala.

Agricultural Credit

4.112 In Kerala credit needs of agricultural and allied sectors are largely met by the organised sector consisting of co-operatives and commercial banks. The credit operation of the sector includes those financed from the funds raised by the banks and refinanced by NABARD.

4.113 NABARD provides financial support for both co-operatives and commercial banks. The refinance assistance through NABARD has steadily increased from Rs. 58.06 crores 1987-88 Rs. 125.21 crores in 1993-94 in Kerala. In percentage terms of the all India requirements, it works out to 4.56. It was only Rs. 103.91 crores in 1992-93 accounting for 4.40% of the all India total. The refinance disbursements in the state has been showing continuous increase over the years. During the year 1993-94 the growth rate recorded by the state was 20.6% against 16.5% recorded at all India level. The agency wise disbursements are given in appendix-4.23. The Kerala State Co-operative Agricultural and Rural Development bank Ltd. has absorbed the largest share of refinance (43.11%) followed by commercial banks (31.90%), Kerala State Co-operative Bank Ltd. (15.22%) and Regional Rural Bank (9.75%). During 1993-94 the share of the Kerala State Agricultural and Rural Development Bank Ltd. improved by 5% whereas Commercial Bank and State Co-operative bank declined by 4% each respectively. Purpose-wise disbursement during the years 1991-92, 1992-93 and 1993-94 are given in Appendices 4.24 & 4.25. The farm sector accounts for about 60% of the disbursement which is around 10% less than the share in previous year. The disbursement in Non-farm sector was 40% against 31% during 1992-93. The shift from farm to non farm financing is becoming more and more pronounced. Purpose wise analysis of refinance disbursement shows that major share was absorbed by plantation and Horticulture (18.57%) followed by Minor Irrigation (16.02%). However Plantation and Horticulture declined from 27% in 1991-92 to 20% in 1992-93 and 19% in 1993-94. Minor Irrigation declined from 18% in 1991-92 to 14% in 1992-93 and increased to 16% in 1993-94. These categories have critical importance in the states Agricultural economy. The sharp decline in the flow of investment finance to the plantation of horticulture sector which is starved from capital investment, is a matter of serious concern.

4.114 During the year 1993-94, commercial banks performed well in the dispensation of Rural Credit. The loan disbursement to the priority sector during 1993-94 was to the tune of Rs. 1542.40 crores against Rs. 1202.44 crores during 1992-93; presenting a commendable growth performance of 28%. The Agriculture and allied sectors accounted for the major share Rs. 757.06 crores (49.08%) followed by tertiary sector Rs. 495.64 crores (32.14%) and SSI sector Rs. 289.70 crores (18.78%). Compared to the previous year even though there was a decline in the share of agriculture it was only marginal. The share of tertiary sector increased marginally from 30.20 to 32.14 and SSI sector from 18.71 to 18.78. The relevant data from 1989-90 is given in Table 4.47

Table 4.47
Loan Disbursement under Priority sector by
Commercial Banks

| Sl. No. | Year | Priority Sectors | | | Total |
|---------|---------|------------------|--------|----------|---------|
| | | Agriculture | SSI | Tertiary | |
| 1. | 1989-90 | 502.17 | 118.83 | 293.15 | 914.15 |
| 2. | 1990-91 | 488.87 | 148.09 | 346.45 | 983.41 |
| 3. | 1991-92 | 622.99 | 171.76 | 344.28 | 1139.03 |
| 4. | 1992-93 | 614.26 | 225.05 | 363.16 | 1202.44 |
| 5. | 1993-94 | 757.06 | 289.70 | 495.64 | 1542.40 |

Source: State level Bankers Committee, Kerala.

4.115 The Kerala State co-operative Bank Ltd. with 14 District Co-operative Banks and 1580 Primary Agricultural Credit Societies cater to the short term and medium term co-operative credit requirement. Being the apex Bank. The Kerala State Co-operative Bank Ltd. co-ordinates the working of the District Co-operative 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 three years is given in Table 4.48.

Table 4.48
Statement showing working of the Kerala State
Co-operative Bank Ltd. for the years
1991-92, 1992-93 and 1993-94 (Rs. lakhs)

| Sl.No. | Particulars | 1991-92 | 1992-93 | 1993-94 |
|--------|------------------|----------|----------|----------|
| 1. | Share Capital | 1209.50 | 1256.49 | 1277.06 |
| 2. | Reserves | 1881.20 | 1983.28 | 2100.20 |
| 3. | Deposits | 27098.19 | 35667.56 | 50250.60 |
| 4. | Borrowings | 15203.45 | 15421.95 | 17735.37 |
| 5. | Working Capital | 44966.62 | 53934.74 | 70980.00 |
| 6. | Loans & Advances | 27970.68 | 34327.78 | 41132.89 |
| 7. | Investments | 7461.00 | 9354.00 | 15107.12 |
| 8. | Net profit | 69.51 | 79.87 | 84.02 |

Source: The Kerala State Co-operative Bank Ltd.

4.116 The Loan outstanding during 1993-94 were to the tune of Rs. 411.33 crores against Rs. 343.28 crores in 1992-93, which represents a growth of 19.82%. During the year 1993-94 an amount of Rs. 3.18 crores were disbursed to District Co-operative Banks for IRDP. The Disbursement of loan during 1993-94 was Rs.521.61 crores against Rs.495.49 crores during 1992-93 showing a growth of 5%. The disbursement for Agricultural purpose for 1993-94 was Rs. 118.11 crores which is 22.64% of the total disbursement, compared to 16.5% during 1992-93. The purpose wise disbursement of Loans during 1992-93 and 1993-94 are given in Table 4.49

Table 4.49

Purpose wise Disbursement of the Kerala State
Co-operative bank Ltd. during 1992-93 & 1993-94

| Sl. No. | Purpose | Loan Disbursement | |
|---------|--|-------------------|---------|
| | | 1992-93 | 1993-94 |
| | | (Rs. crores) | |
| 1. | Agriculture (Production & Investment) | 81.94 | 118.11 |
| 2. | Procurement/Marketing/ Distribution | 297.29 | 211.01 |
| 3. | Cottage & Small Scale Industries | 5.32 | 4.00 |
| 4. | Other Industries | 0.71 | 61.29 |
| 5. | Consumer Activities | 11.04 | 9.52 |
| 6. | Consumption purposes | 10.02 | 33.21 |
| 7. | Housing | 14.13 | 15.64 |
| 8. | Other purposes | 74.99 | 68.83 |
| | Total | 495.48 | 521.61 |

Source: K.S.C. Bank Ltd.

4.117 The primary agricultural credit societies are the institutions at the grassroot level for dispensation of short term credit to agriculturists. As on 30-6-1993, 1580 Primary Agricultural Credit Societies with a membership of 100.87 lakhs and a resource base (share capital deposits and working capital) of Rs. 4392.70 crores were engaged in providing credit to the farmers. The performance of the credit societies during 1992-93 was encouraging. The average membership per society was 6372 with an average share capital base of Rs.7.33 lakhs and an average working capital of Rs.169.56 lakhs. The

average deposit per society has increased to Rs. 95.35 lakhs in 1992-93 from Rs. 74.48 lakhs in the previous year. The average loan per member has increased from Rs. 1336/- to Rs. 1488/-. The percentage of borrowing members increased from 39.10 to 40.61. The Loan disbursed through the Primary Agricultural Credit Societies during 1992-93 was to the tune of Rs. 1498.44 crores registering a growth of 21.84% over the previous year. Out of the total deployment of loans, short term loans comprise more than 80.24% (Rs. 1202.30 crores) Medium Term 16.78% (Rs. 251.44 crores) and Long Term 2.98% (Rs. 44.70 crores). The dispensation of short term, Medium Term and Long Term recorded 21.39%, 28.93% and 0.68% growth rates during 1992-93. The credit for agricultural purpose increased from Rs. 531.77 crores (43.24%) to Rs. 540.13 crores (36.05%) Non-farm sector lending is still dominating. At time when the commercial banks are able to maintain their lead performance in the farm sector why the co-operatives are not able to do this also requires careful study and corrective measures.

The remarkable progress showed by the co-operatives in their functioning was due to the successful deposit mobilisation drive launched by co-operatives with the active support of the Government. The target of Deposit mobilisation for 1993-94 was Rs. 200 crores and the achievement was Rs. 475.15 crores. The data on working of primary agricultural co-operative societies reveals that during 1992-93 out of 1580 PACS, 663 societies were running on profit, 43 societies without profit or loss 874 societies were on loss, 24 societies were dormant. 1548 societies have paid secretaries and 1429 societies have own godowns. The selected indicators of the credit operations and performance of the primary agricultural credit societies are given in Appendices 4.26 and 4.27.

Long Term Credit

The long term credit structure consists of the Kerala State Agricultural and Rural Development Bank Ltd. and 43 Primary Agricultural Development banks at the Taluk level. The various development activities covered by the banks lending includes minor irrigation, farm mechanisation, land development including soil conservation, cultivation of horticulture plantation crops like coconut, Rubber, Cashew, Coffee, Pepper Cardamom etc. The bank also advances non farm lending consisting of composite loan, small road transport operation scheme and integrated loan scheme with 100% assistance from NABARD. During 1993-94 the bank had disbursed a sum of Rs. 84.90 crores against Rs. 69.48 crores during 1992-93. The advances include Rs. 11.80 crores under ordinary lending Rs. 31.75 crores under schematic lending Rs. 27.64 crores for non farm sector lending and Rs. 13.71 crores for Rural Housing. The increase is mainly in schematic and non farm lending. The purpose wise classification at the KSCARDB Level and Loan advanced and debentures floated by the bank are given in Appendices 4.28, 4.29 and 4.30.

4.120 National Co-operative Development Corporation is an agency providing finance for the development of Co-operative movement. The finance from the corporation is mainly for funding long term projects covering, production, procurement, processing, storage and marketing of agricultural commodities as well as for the supply of consumer goods in rural areas. The flow of credit from NCDC for activities in Kerala during 1993-94 was Rs. 23.18 crores compared to Rs. 9.00 crores during 1992-93. The percentage share of Kerala in the all India disbursement of NCDC assistance stood at 4.96. The Fund flow from NCDC and purpose wise release are shown in Appendices 4.31 and 4.32.

CHAPTER 5

IRRIGATION AND POWER

IRRIGATION

Despite copious rainfall of over 3000 mm a year the State faces acute water scarcity during summer months. As the rainfall is mostly concentrated in the months of June to November, supplementary irrigation is needed for stabilising crop production. The strategy adopted by the State in the earlier phase of development for providing this critical support was to go in for major irrigation projects and the emphasis was mainly on irrigating paddy crop. As a result major irrigation projects received the largest investment support accounting for nearly 71% of the investment for irrigation. Cumulative investment so far made in the irrigation sector amount to Rs.1462.74 crores and the irrigation potential created is only 6.11 lakh ha. (gross). Due to escalation in costs and delayed completion of projects, the costs of the projects have soared up considerably without any commensurate increase in irrigation potential. The backlog in the execution of major irrigation project is so heavy that the State is finding it extremely difficult to carry on with even the projects which are in advanced stages of completion. Out of 19 ongoing projects under execution at the beginning of Eighth Plan 6 were started in III Plan, 4 in IV Plan, 5 in V Plan and 4 in VI Plan. The strategy adopted for the 8th Plan was to complete and commission all the projects taken up during the 3rd and 4th Plan periods in a time bound manner by giving priority to their funding. It was also decided not to go in for any new major or medium projects during the plan and to gradually shift the emphasis to minor irrigation.

Progress of Major & Medium Projects

5.2 Against 10 major projects targeted for completion during the plan period, four projects namely Pamba, Periyar Valley, Chitturpuzha and Kuttiyadi have already been completed by the end of 1993-94. In regard to the execution of another 5 projects such as Chimmoni-mupli, Pazhassi, Kanhirrapuzha, Muvattupuzha and

Kallada there is considerable progress. It is anticipated that all these project will be completed before the end of the Plan.

5.3 As regards the physical achievements, the area brought under irrigation by major and medium projects fell short of the target during the first two years of the plan due to delay in commissioning the projects as per the schedule drawn up at that time. As against the target of 148000 Ha. (gross) to be additionally brought under irrigation during the plan period, the actual achievement during the first two years of the Plan was only 17470 Ha. The cumulative area benefited by the projects as on 3/94 comes to 2.05 lakh Ha. (net) and 4.15 lakh Ha. (gross) including the area serviced by the 14 completed projects. (Appendix 5.1) During 1993-94, additional irrigation support created was only in 4 major and medium projects namely Periyar Valley 2870 Ha. (net), 7542 Ha. (gross), Pamba 11 Ha. (net), Chitturpuzha 2096 ha. (gross), Pazhassi 224 ha. (net), 448 ha. (gross). All other schemes were under various stages of execution. Among the ongoing projects six are in a very preliminary stage of investigation and execution. Most of them have been conceived in early Eighties. Since then many changes have taken place in their projected commands. It is worthwhile making a reappraisal of these projects with reference to the current ground situation before proceeding further so that their relative priority for further funding could be decided accordingly. Project-wise details are given in table 5.1.

Minor Irrigation

5.4 Eventhough minor irrigation and ground water development deserve priority attention, the State is not in a position to allocate adequate resources for them as the past commitments under major irrigation continues to be the first charge on the available resources. There is increasing realisation about the need for taking up more and more minor irrigation schemes that too with people's participation. A number of schemes have been introduced during the Eighth

Table 5.1

Project-wise details of the ongoing Projects

Rs. in lakhs

| Sl. No. | Name of Project & Year of starting | Original estimate | Latest estimate | Year in which latest revision made | Total Exp. to be upto 3/94 | Expected Area Irrigated (Ha.) | | Physical Achievement till 3/94 (Ha.) | |
|---------|--|-------------------|-----------------|------------------------------------|----------------------------|-------------------------------|--------|--------------------------------------|-------|
| | | | | | | Net | Gross | Net | Gross |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 1. | Kallada (1961) | 1328 | 45,780 | 1990 | 43,424 | 61630 | 92800 | 23087 | 34630 |
| 2. | Chimmoni - Mupli (1975) | 633 | 3,615 | 1990 | 4,033 | 13000 | 26000 | 6500 | 13000 |
| 3. | Kanhirapuzha (1961) | 365 | 7,500 | 1991 | 6,347 | 9713 | 21853 | 7266 | 16349 |
| 4. | Pazhassi (1962) | 442 | 7,736 | 1986 | 8340 | 11525 | 23050 | 6348 | 12696 |
| 5. | Muvattupuzha (1974) | 2086 | 10,426 | 1990 | 8297 | 17737 | 34737 | -- | -- |
| 6. | Vamanapuram (1981) | 1982 | 3640 | 1986 | 514 | 8057 | 16436 | -- | -- |
| 7. | Idamalayar (1981) | 1785 | 10700 | 1992 | 3175 | 14060 | 43190 | -- | -- |
| 8. | Kuriyarkutty - Karapara (1978) | 1036 | 6018 | 1990 | 197 | 11736 | 23470 | -- | -- |
| 9. | Chaliyar (1981) | 1061 | 70,000 | 1992 | 269 | 7324 | 108035 | -- | -- |
| 10. | Kakkadavu (1979) | 1335 | 9885 | 1986 | 226 | 13986 | 41760 | -- | -- |
| 11. | Attappady (1975) | 476 | 5839 | 1986 | 742 | 4500 | 8378 | -- | -- |
| 12. | Karapuzha (1975) | 760 | 4066 | 1986 | 3682 | 4650 | 9300 | -- | -- |
| 13. | Meenachil (1980) | 3500 | 6814 | 1986 | 225 | 9950 | 14510 | -- | -- |
| 14. | Banasuresagar (1979) | 800 | 1798 | 1990 | 175 | 2800 | 4800 | -- | -- |
| 15. | Bridge-cum-regulator at Chamaravattom (1985) | 875 | 1765 | 1990 | -- | -- | 8660 | -- | -- |
| Total | | 18464 | 195582 | -- | 79646 | 190668 | 476979 | 43201 | 76675 |

plan with this perspective. They include the Janakeeya Jalasechana Padhathi and the Jaladhara Padhathi. The Dutch assisted community irrigation and the EEC assisted minor irrigation projects that started implementation during 1993-94 are also intended for implementation through beneficiaries; committees.

5.5 The area brought under minor irrigation including ground water development during 1993-94 was 11207 ha. (net) and 20260 ha. (gross) and an amount of Rs.2357.43 lakhs has been expended to bring this area under irrigation. The average per hectare cost of minor irrigation works out to Rs.25,000/-. During the year under report, 70 works were completed under minor irrigation class I benefiting an area of 3828 ha. (net) and 5742 ha. (gross), 40 works under class II benefiting 995 ha. (net), 11 lift irrigation works irrigating an area of 1545 ha. (net) and 2310 ha. (gross). Under community irrigation programme, 3 works were completed benefiting 28 ha. (net) and 4 works under I.P.D. Yelah programme bringing 100 ha. under irrigation. Under Special Component Plan 35 works were completed benefiting 513 ha. (net) and under Tribal sub plan 7 works bringing an additional area of 123 ha (net) under irrigation. The cumulative area brought under irrigation through minor irrigation schemes as on 3/94 as per the estimates of the Minor Irrigation Department is 1.66 lakh ha. (net) and 2.07 lakh ha. (gross). The physical and financial achievement of the minor irrigation programmes are given in Appendix 5.2

5.6 Ground water development offers tremendous potential in Kerala. The activities of the Ground Water Department include ground water exploitation, resources evaluation and management, ground water development for purposes like irrigation, domestic and industrial requirements. Exploratory studies made by the Department show that the State has so far tapped only 16% of the groundwater potential in Kerala. According to the survey, the total utilisable ground water for irrigation is assessed as 6586.80 Mcm. and the total net draft as on 31.3.1993 is 1063.28 Mcm. The district-wise

groundwater potential of Kerala as on 31.3.1993 is given in Appendix 5.3

5.7 During 1993-94, 166 bore wells, 296 filter point wells and 11 tube wells were constructed creating an irrigation potential of 6176 ha. Technical clearance was given for 3903 new wells and 4068 pumpsets. A new project for providing irrigation support through groundwater development is under implementation in Thrissur District with Dutch assistance. The project envisages establishment of 219 bore wells and entrusting the management of the units with the farmers organisations. The duration of the project is five years. Under the Janakeeya Jalasechana Padhathi implemented with the objective of providing groundwater support for commercial crops, sites were cleared for 87 irrigation units, 34 irrigation units were completed creating an irrigation potential of 198 hectares.

FLOOD CONTROL AND ANTI-SEA EROSION

5.8 The flood control activities undertaken are construction of embankments, retaining walls, bed bars and permeable groynes etc. to protect the banks of the rivers from the ravages of floods. During 1993-94 twenty four works were completed and an area of 18000 ha. have been protected.

5.9 Anti-sea erosion through construction of sea wall was an activity for which Government of India was providing 50 percent Central assistance till the end of Seventh Plan. Government of India have discontinued the Centrally Sponsored Scheme and transferred the activity to State sector for continuance during Eighth Plan. Consequently the State had to scale down the physical coverage to contain within the available budgetary resources. The construction during 1993-94 was only 4.98 Kms. of new sea wall and 5.005 Km. of reformation. The State has invested Rs.142.94 crores till the end of 1993-94 constructing 336.40 Km. of new sea wall and reformation of old damaged sea wall to the tune of 58.20 km. The physical and financial achievement of the flood control and anti-sea erosion programmes are given in Table 5.2.

Table - 5.2

Physical and Financial Achievement of Flood Control and Anti-sea Erosion Programme

| Sl. No. | Item | Achievement during 1993-94 | | | Cumulative till the end of 3/94 | |
|---------|--------------------------|----------------------------|--|------------------------|---------------------------------|--|
| | | Expdr. (Rs. lakhs) | Area benefited (Ha.) | No. of works completed | Expdr. (Rs. lakhs) | Area benefited (Ha.) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1. | Flood Control Programmes | 223 | 1800 | 24 | 2960.9 | 41492 |
| 2. | Anti-sea Erosion | 1996.70 | New Sea wall 4.98 km. Reformation of old damaged Sea wall 5.005 k.m. | --- | 14294.90 | New Sea wall 336.4 k.m. Reformation of old damaged sea wall 58.20 k.m. |

COMMAND AREA DEVELOPMENT

5.10 The 14 completed projects namely Malampuzha, Walyar, Pothundy, Gayathri, Mangalam, Peechi, Vazhani, Cheerakuzhy, Chalakudy, Neyyar, Pamba, Periya valley, Chitturpuzha, and Kuttiyadi are included under the 50% Centrally Sponsored command area development programme. The total cultivable command area under the above projects comes to about 180,000 ha. The main activities under this programme include construction of field channels, field drains, land development programmes, introduction of Warabandhi system, demonstration and adaptive trials for better water management practices and scientific and improved methods of water use etc. During 1993-94, field channels were constructed to benefit 0.21 lakh hectares, introduction of warabandhi system in 0.13 lakh hectares, adaptive trials and demonstrations in 7689 ha. The physical achievements under CAD programmes are given in Appendix 5.4

5.11 According to the assessment of the Directorate of Economics and Statistics, the irrigated area in Kerala accounts for only 15% (1992-93) of the net cropped area. In terms of gross cropped area it works out to 12.4%. This is against the overall percentage of 33% for the country (1990-91). There is variation in the area irrigated as estimated by the Directorate of Economics and Statistics and the Department of

Irrigation. This has to be reconciled. The source-wise and crop-wise data on irrigation published by the Directorate are given in Appendices 5.5. and 5.6. It shows that the public irrigation systems covering Government canals, Government tanks and wells as well as minor and lift irrigation programmes contribute only 38% of the irrigation support in Kerala. Among the crops paddy receives the maximum support accounting for 56% of the gross irrigated area followed by Coconut (28%).

ENERGY DEVELOPMENT

5.12 The financial performance of Kerala State Electricity Board continued to be good during 1993-94, for the second year in succession. The Kerala State Electricity Board could achieve a rate of return of about 5.6 per cent during 1993-94. The installed capacity was marginally increased, by 7.5 MW, after about seven years of stagnation in this respect, with the commissioning of the Kallada Small H.E. project in January 1994. Generation of power, however, declined by 5.9% from 6192.73 MU in 1992-93 to 5822.25 in 1993-94 MU, due to relatively less favourable monsoons. Alongwith 2036 MU units of imported power, being the share from central sector projects, the total energy sold during 1993-94 stood at 5838 MU. The Major achievements in the Kerala power system during 1992-93 and 1993-94 are shown in appendix 5:7.

5.13 The state continues to be deficient in power supply, the gap between demand and supply widening with the passage of time. The progress of this vital infrastructure for the development of the state has been rather inadequate forcing industrial units to shy away from making investment in the State. The total requirement of power during 1993-94 was placed at 7990 MU. Against this the availability was only 7836 MU, a deficit of 154 MU. The near saturation in the hydel potential of the State, on which the state is entirely depended on, and the delay in commissioning the projects on hand are the important reasons for the power shortage being faced by the State. Prompted by these limitations a beginning has been made for setting up thermal power stations in the state. The coming two years are expected to make remarkable progress in this direction. The projected

demand and availability of power in the State for the period upto 2001 AD is depicted in Fig. 5.1

5.14 The percapita power consumption, considered as an index of the level of economic development, in Kerala is 211 KWh, the lowest among the southern states and far below the national average of 330 Kwh. In comparison, the percapita power consumption in Punjab is 863 Kwh, the highest in the country followed by Maharashtra with 524 Kwh, Tamilnadu 430 Kwh and Karnataka 356 Kwh. A graphic presentation of the number of consumers, connected load and percapita consumption for the period from 1970-71 to 1993-94 is given in Fig. 5.2.

5.15 Energy loss as percentage of Energy available for sale has come down from 21% in 1992-93 to 20.17% in 1993-94 whereas the All India average is 21.8%. T & D loss is 18.7% in Karnataka, 17.5% in Tamilnadu and 16.2% in Maharashtra. Schemes are being implemented in the State for system improvement and renovation works so as to minimise the transmission and distribution losses and operational costs. The installed capacity, generation and system loss for the period from 1980-81 to 1993-94 is graphically represented in Fig. 5.3

5.16 The project wise details of power generation in the State during 1993-94 is presented in appendix 5.8. Except in the case of Pallivasal and Kuttiady all other projects have shown a declining trend in respect of power generation.

5.17 The details regarding total cost, expenditure till the end of March 1994, energy potential and expected year of commissioning of the ongoing power projects are given appendix 5.9. Undue delay in commissioning of the projects has resulted in tremendous cost escalation in the case of most of the projects. Labour trouble and such other factors continue to create bottlenecks in accelerating the pace of execution of the projects.

5.18 Reasonable progress has been achieved in completing the transmission and distribution works, a major part of which is funded

by World Bank. Four 110 KV transmission lines, viz Tapline to Kavanad, Sasthamcotta, Aroor Mararikulam line, and Tapline to Maniyar (88.8 CKT. Km) and one 66 KV line from Ranni to Kozhancheri were commissioned during the year. Similarly three 110 KV substations and three 66 KV sub-stations were also commissioned during 1993-94.

5.19 As regards distribution, 10759 agricultural connections, 3939 industrial connections, 29592 non-domestic connections and 179924 domestic connections were given during 1993-94. 508 scheduled caste colonies and 45 tribal colonies were electrified during the year under review. In addition to this 899 Kms. of LT three phase line were installed and 15564 street lights were also installed during the year.

5.20 The total investment on power development till the end of 1993-94 stood at Rs.1891 crores. The outlay during 1994-95 is Rs.307 crores. Outlay and expenditure on power development during the period 1951-52 to 1993-94 are given in Appendix 5.10.

5.21 The pattern of energy consumption in the State shows that the industrial sector continues to be the largest end user, with a percentage share of 43.98% during 1993-94. The consumption pattern of power by various categories of consumers is given in Fig. 5.4 and Appendix 5.11.

5.22 Tariff revision was imposed to all categories of consumers with effect from 1-6-1993 and to certain categories of consumers from 1-4-1993. These revisions had a positive impact on the revenue position of the KSEB. Average revenue realisation from sale of power from various categories of consumers during 1993 and 1994 is given in Appendix 5.12.

5.23 During 1993-94 no load shedding or power cut were resorted to, except on exigencies. However, low voltage has been a major cause for concern. Generation of adequate power, strengthening and modernisation of the entire power system only can provide an answer to this problem.

IN KERALA

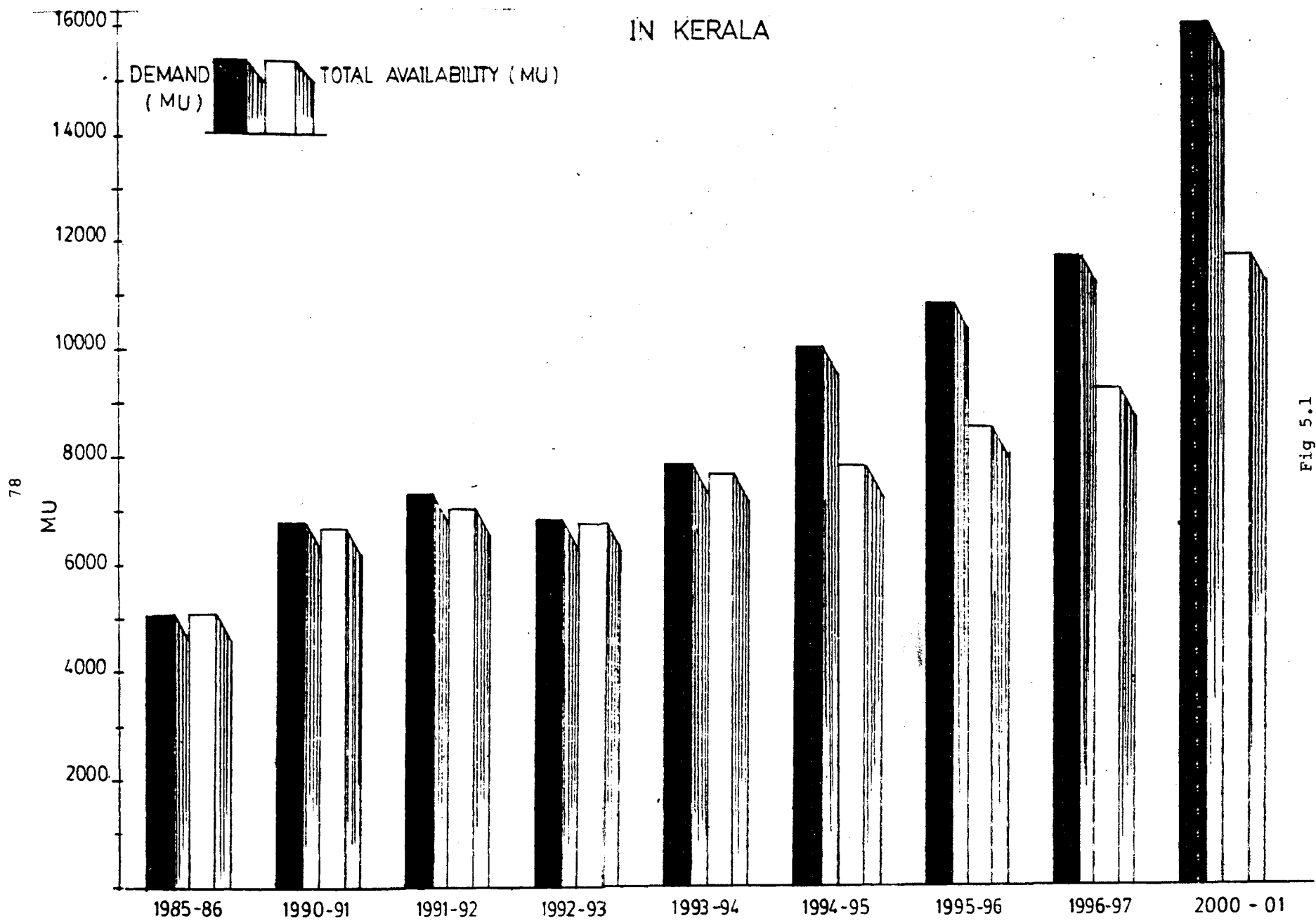


Fig 5.1

CONSUMERS, CONNECTED LOAD AND PERCAPITA CONSUMPTION

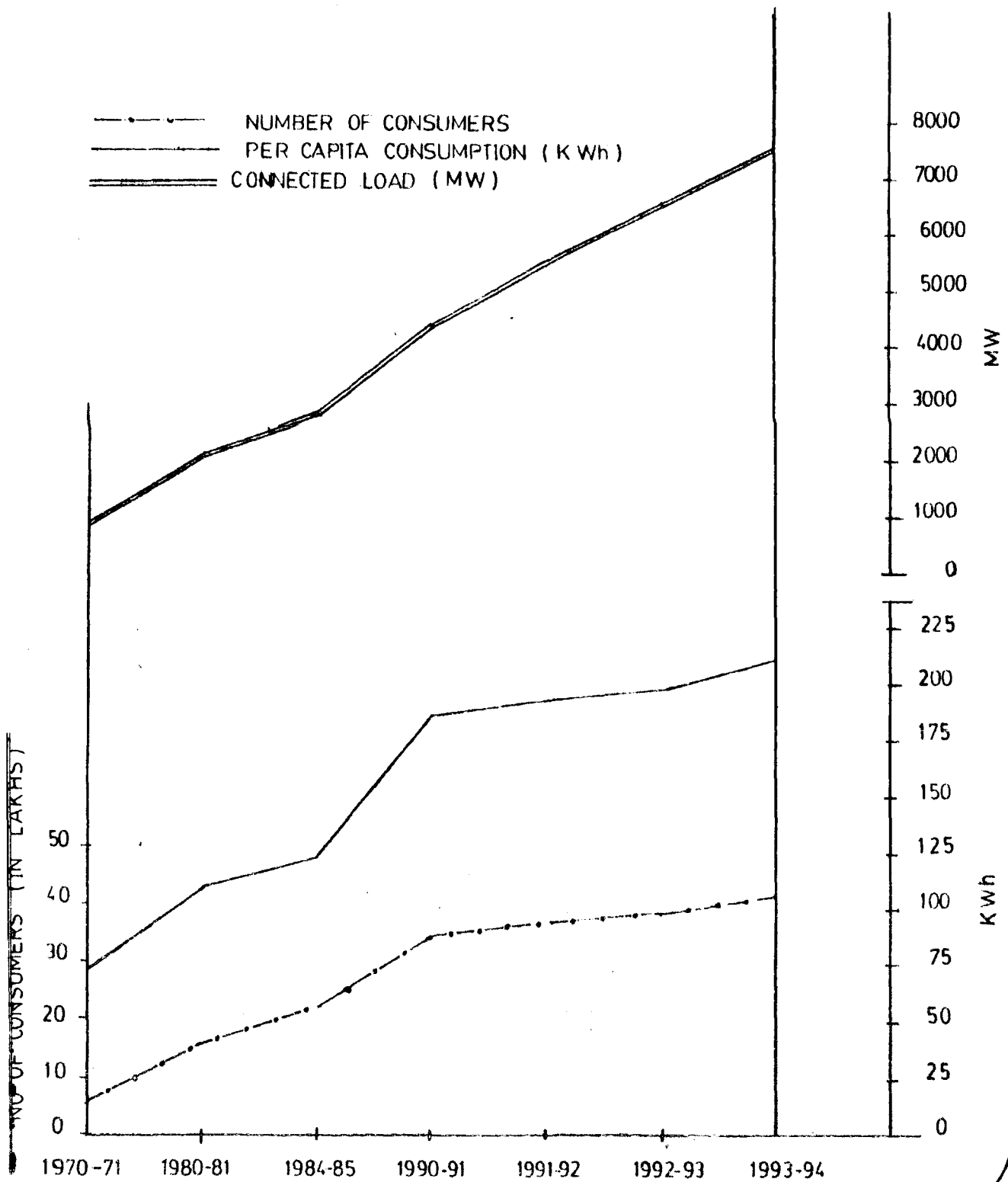


Fig. 5-2

INSTALLED CAPACITY, GENERATION AND SYSTEM LOSS

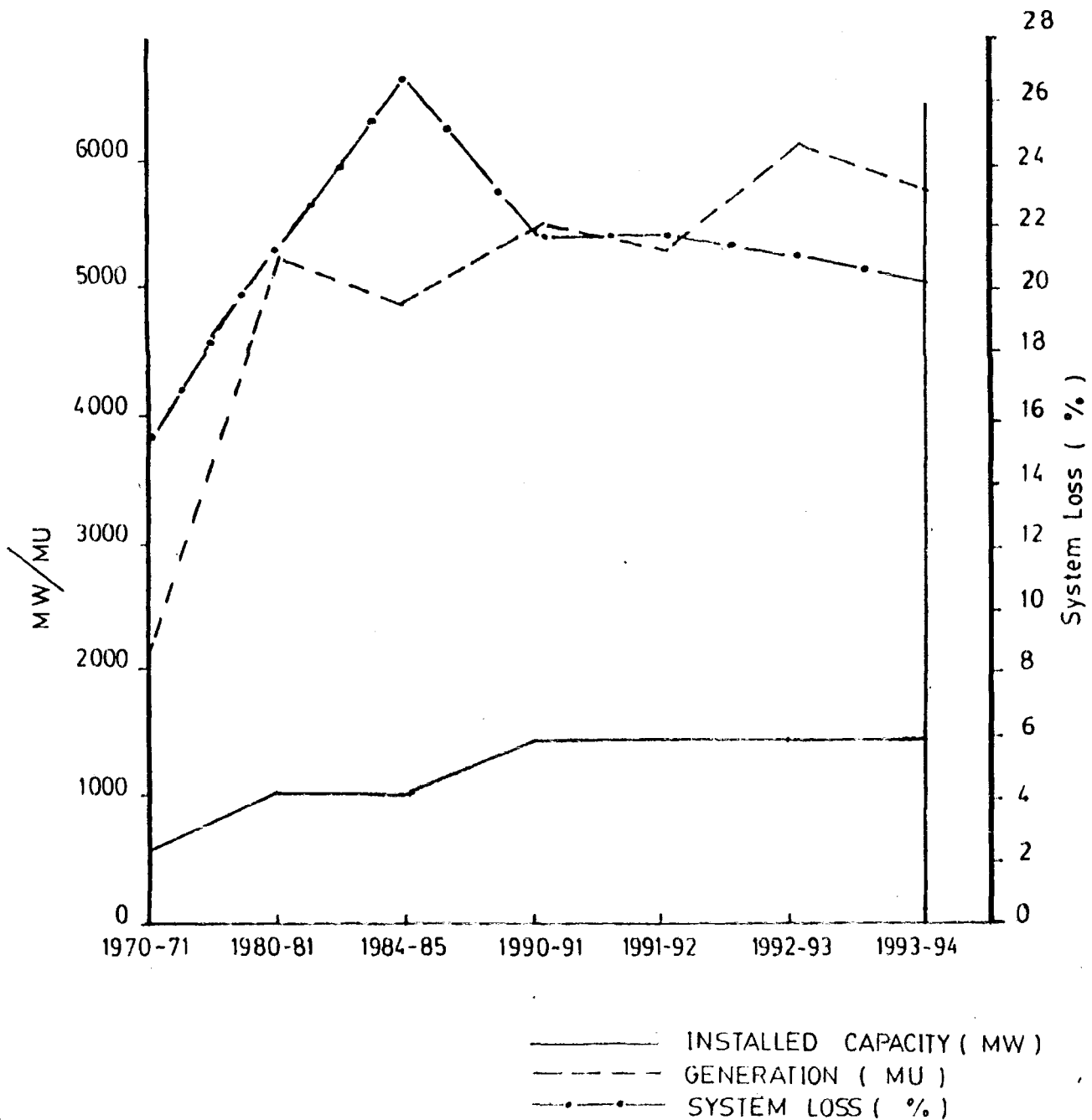


Fig. 5.3

PATTERN OF POWER CONSUMPTION
(in percentage)

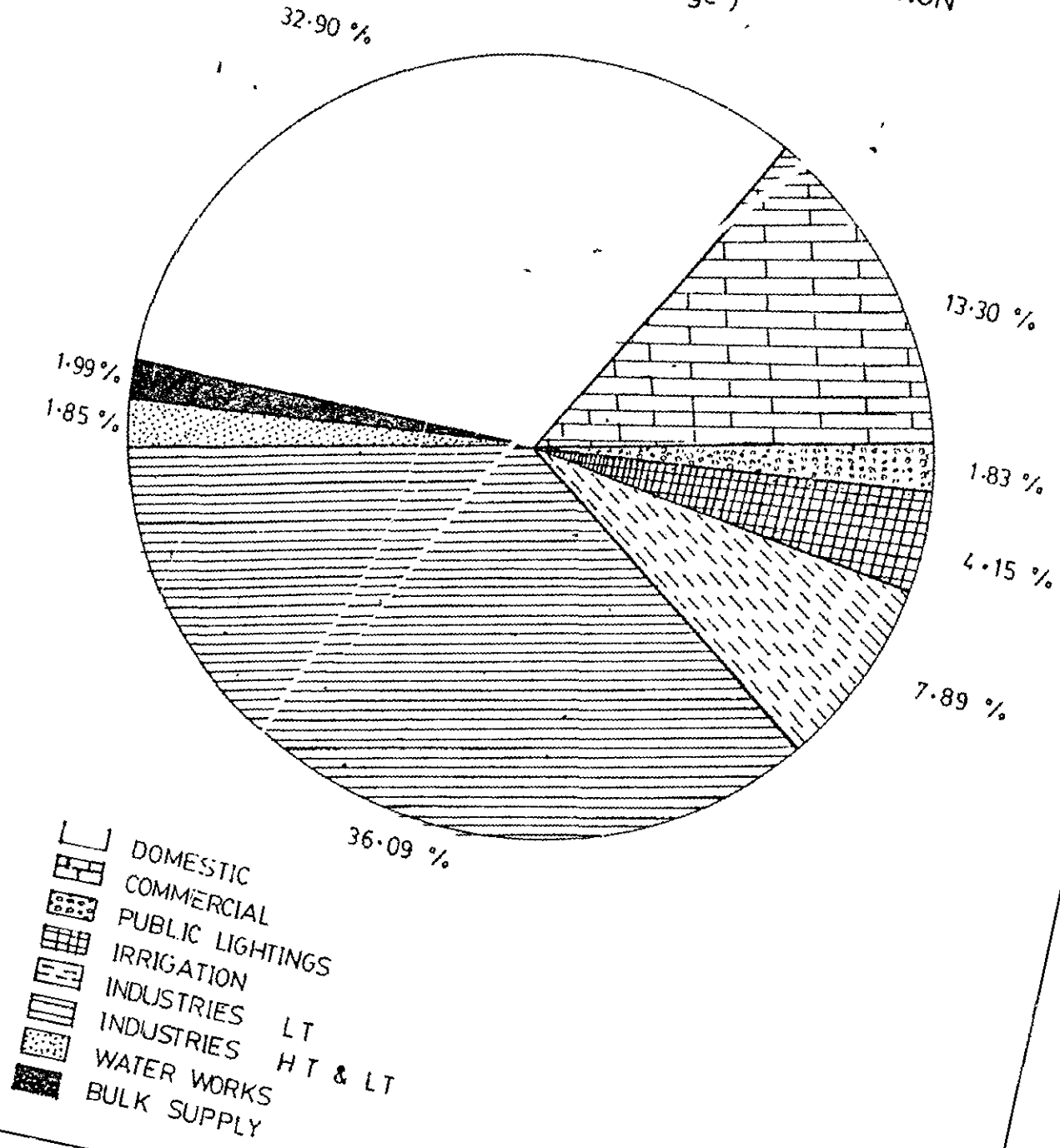


Fig 5.4

Financial Position of KSEB

5.24 The total income of KSEB from the sale of power during 1993-94 amounted to Rs.54064.77 lakhs as against Rs.43875.28 lakhs during the previous year. Total revenue of KSEB during 1993-94 including the subsidy and grants and other income stood at Rs.54827.62 lakhs. This was Rs.10363.29 lakhs higher than the previous year registering an increase of 23.3%. On the expenditure side the major chunk was on employees cost Rs.19333.34 lakhs i.e. about 31% of total expenditure was on employees cost. For the purchase of power an amount of Rs.18295 lakhs was spent in 1993-94 as against Rs.9714 lakhs in 1992-93 registering 88% increase. This was mainly due to increase in cost and quantity of power imported. There was 9% increase in the expenditure on interest and finance charges during 1993-94 over the previous year.

5.25 The surplus of the KSEB as on 31st March 1994 works out to Rs.3672.27 lakhs as compared to Rs.1841.87 lakhs during the corresponding period in the previous year. The surplus as a percentage of the value of fixed assets of KSEB during 1993-94 works out to 5.59% against the 3% minimum specified. The net assets of K.S.E.B. as on 31st March 1994 is Rs.195415 lakhs as against Rs.162381 lakhs during the corresponding period in the previous year, registering an increase of Rs.33034 lakhs. The total income and expenditure of KSEB over a period from 1970-71 to 1993-94 is graphically represented in Fig.5.5.

5.26 As stated earlier, power shortage is a major problem facing the state, hampering economic development. On the one hand there is very limited scope for exploiting hydel potential and on the other hand investment of a massive nature is required for ensuring adequate supply of power which the State Government is hard pressed to mobilise. Considering these aspects efforts are on to set up a number of thermal power projects in the State, implementation of a couple of them have already started. Similarly private participation has been accepted as a matter of policy, and a number of agreements have been entered into with various private agencies to generate power. Three agreements have

already been executed and agreements for 11 other schemes would be signed in the near future. Over 100 MW of power is expected to be generated through private sector participation. Prospects of starting of works on setting up the long awaited Kayamkulam thermal power project by NTPC appear to be bright. All these put together would go a long way in reducing the demand supply gap in power substantially within a reasonable period of time.

Non-Conventional Sources of Energy

5.27 The Agency for Non-conventional Energy and Rural Technology (ANERT) functions as a nodal agency engaged in the process of spreading the message of renewable sources of energy and energy conservation among various sections of the society. The major activities undertaken by ANERT is given below.

- 1) National Programme on Improved Chulahs;
- 2) Solar Thermal Extension Programme
- 3) Solar Photo Voltaic Programme
- 4) Integrated Rural Energy Programme
- 5) New and Renewable Source of Energy Programme
- 6) Wind Programme

5.28 The aggregate amount spent till the end of 1992-93 was Rs.763.95 lakhs for the implementation of above programmes. The expenditure during 1993-94 was Rs. 324.76 lakhs. Thus the cumulative expenditure till the end of March 1994 amounted to Rs.1088.71 lakhs.

National Programme on Improved Chulahs

5.29 This was partially a Centrally assisted programme for providing improved chulahs to households through 16 IREP block offices and 12 Voluntary Organisations. This scheme was 100 per cent centrally assisted till 1991-92. But there has been drastic reduction of subsidies towards Central assistance during 1992-93 which affected this scheme also. During 1993-94, a total number of 41857 households were provided with improved chulahs as against the target of

TOTAL INCOME AND EXPENDITURE OF K S E B

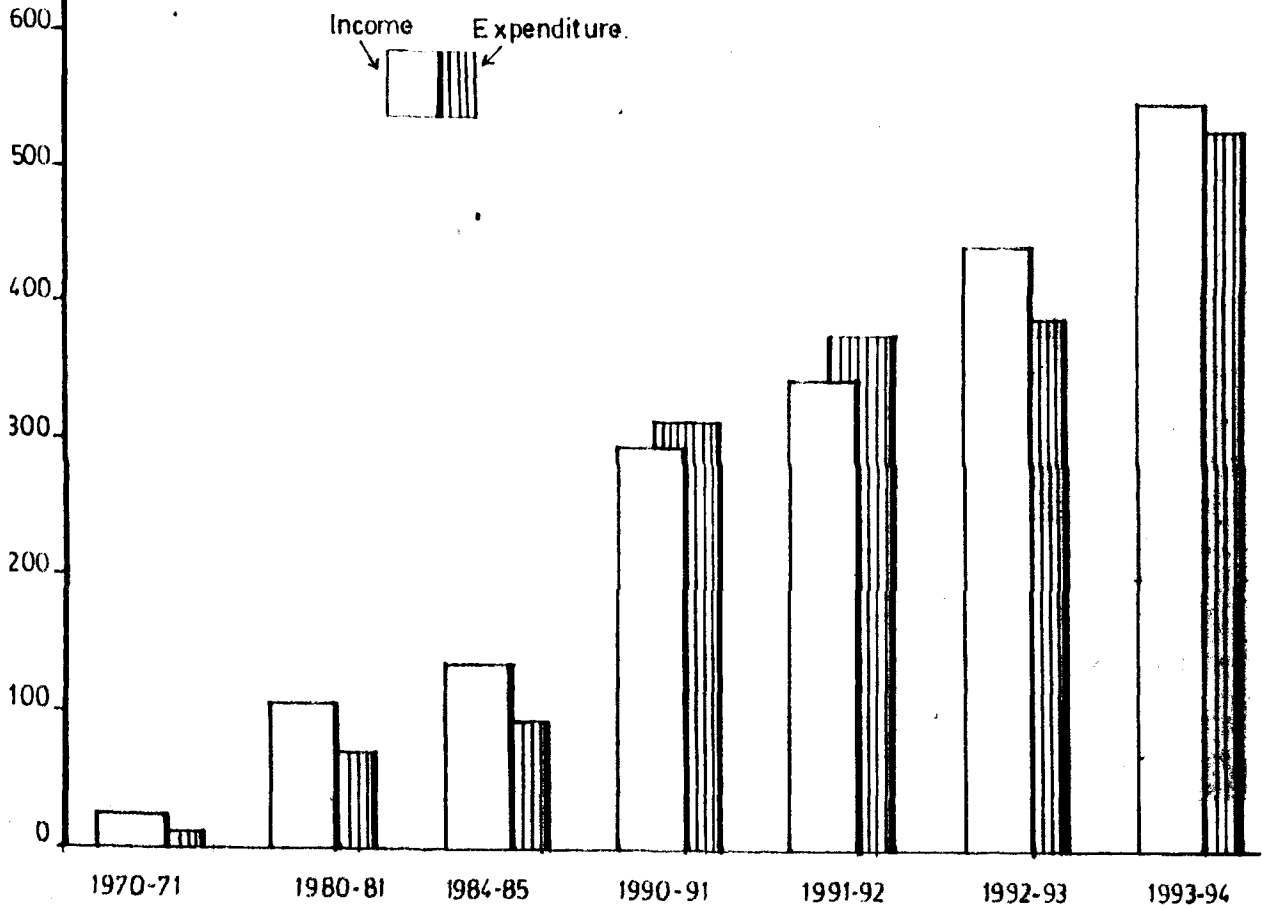


Fig 5.5

35000 numbers. A total number of 1343 improved chulahs for community purposes were also constructed. As a part of employment generation, 4 training camps were conducted for imparting training to rural youth in the construction of improved chulahs. For creating awareness among the rural youth in using improved chulahs, 4 major and 20 minor exhibitions were conducted.

Solar Photo Voltaic Programme

5.30 The major activities coming under this programme are distribution of SPV lanterns and installation of SPV Pumps for agricultural purposes. During 1993-94, more than 3000 SPV lanterns were distributed and 32 pumps were installed in the State. The ANERT was successful in developing Electronic control units for SPV lights, Solid State Invertor for Solar T.V., Electronic charge controllers for SPV systems etc. during the year under review. Solar Street lights and Solar Domestic lights are also popularised under this scheme.

Wind Programme

5.31 Under this programme, 30 Wind mapping stations were in operation during 1993-

94. The data collected is sent to the Indian Institute of Tropical Meteorology for compilation and analysis. The Agency has also set up seven Wind monitoring stations which collect data on wind speed and direction. The data which is processed at IITM, Bangalore is made use of in selecting sites for setting wind farms. The Agency has installed 45 Wind Mill Water Pumping Systems during the year under review.

Integrated Rural Energy Programme

5.32 The main activity under IREP is the propagation of improved chulahs and New Energy devices. During 1993-94, the programme was extended to three more blocks viz., Nedumangad, Puzhakkal and Mulanthuruthy, thereby increasing the IREP blocks to sixteen. Under this programme, 33820 improved chulahs were distributed in rural areas during 1993-94. In the same year, 252 SPV lanterns, 36 solar cookers, 254 electronic chokes, 141 compact Fluorescent Lamps, 5 community wind Mills, 424 Pressure Cookers, 1754 High Efficiency Kerosene Stoves and 46 Domestic SPV lighting systems were distributed through the above blocks as a part of new energy and energy saving devices programme.

CHAPTER 6

INDUSTRY

AN OVERVIEW

The industrial policy statement of the State Government in 1991 paved the way for initiating several measures for bringing out the structural changes to the State's industrial scene. Even though some of the measures have been relatively slow, as always happens with any change in the existing situation, efforts to speed up the policy initiatives have been well received as revealed by the response and interest evinced by investors in various fields. The year 1993-94 being only the second year of the policy reforms, the impact was not very discernible. But the subsequent period has witnessed tremendous improvement and if pursued rigorously would definitely transform the State's industrial scenario. Government on its part, while refraining from making direct investment in industrial ventures, has considerably stepped up its more justified role of providing the necessary promotional services and infrastructural facilities for setting up industrial units. If the initiatives already taken are relentlessly pursued, there are very positive signs of the pace of industrial growth picking up its momentum in the short period ahead.

6.2 During this period, 14533 new small scale industrial units have been registered in the State against the target of 10500 units making the total number of small scale units to 110384 by the end of March 1994. The total number of new units registered in the previous year was 11411. Of the total number of units registered during 1993-94, 1230 were those promoted by SC/ST entrepreneurs and 3742 were those by women. Similarly, 697 new joint stock companies have been registered in Kerala during 1993-94. Thus

by the end of March 1994 the total number of joint stock companies stood at 5925. Total number of working factories has also increased from 13946 in December 1992 to 14399 by the end of 1993. Number of workers engaged there on has also increased from 4.06 lakhs to 4.13 lakhs in 1992.

6.3 Among the 44 State Public Sector undertakings, 23 were working on profit during 1993-94. This includes 16 manufacturing units also. As regards the promotion of medium and large scale units in the State, the Kerala State Industrial Development Corporation has played its role effectively. 42 new projects involving a total investment of Rs. 138.47 crores were completed during 1993-94 with the financial support of this Corporation against 33 projects involving a total cost of Rs. 84.80 crores in the previous year. During 1993-94, the Corporation has signed Memorandum of Understandings with private parties for establishing 27 new projects involving an estimated investment of Rs. 533 crores.

6.4 The State Government have taken active steps for the speedy completion of the Technopark at Thiruvananthapuram. The infrastructure development activities at the Park are nearing completion and 84 companies have registered for starting industrial ventures with a total committed investment of Rs. 222 crores in the Park. The Kerala Industrial Infrastructure Development Corporation incorporated in the previous year with statutory powers for providing infrastructure facilities required by new industries in the State have started implementing 3 major projects and 6 other major schemes aimed at the overall integrated infrastructure development of the State.

6.5 The Central Sector industrial investment in Kerala has increased to Rs. 2275 crores by the end of March 1993 from Rs. 2000 crores in March 1992. The percentage share of the State in the total Central Investment in the Country by the end of March 1993 remained stationary at 1.3 same as that in March 1992.

6.6 Under the traditional industries sector, reasonable improvements have been noticed during the period under review. The performance in terms of production and sales turnover under this sector was encouraging during 1993-94 though several problems such as scarcity of raw materials, shortage of working capital and hike in material cost were experienced. Reforms are on the card for the faster and healthy development of handloom and coir sectors, through some of the measures initiated by the Government for modernisation and integrated development of these sectors.

Index of Industrial Production

6.7 The index of industrial production in Kerala, according to the latest information available marginally increased to 217.31 in 1992-93 (Base year 1980-81) from 216.21 in 1991-92, an increase of only half a percent. The index declined to 183.29 during the quarter ended in June 1992 from the level of 220.48 in the quarter ended March 1992. It reached the highest level of 232.10 during the quarter ended in September 1992. But it decreased to 221.91 in the third quarter and again increased to 231.49 in the quarter ended in March 1993. In the case of group indices for the quarters however have a mixed trend with some group indices showing a steady increase or decrease in general and a few other showing an erratic trend. A small rise in the General Index was mainly due to increased production in major manufacturing industry groups like Food Products Beverages, Tobacco and related products, wool, silk and man made fibre textiles, wood and wood products, basic chemicals and chemical products

(except production of petroleum and coal), non metallic mineral products transport equipment and parts; Electricity generation transmission and distribution. The remaining major industry groups reported a decrease in their production level during the year. The industry-wise indices for the years 1991-92 and 1992-93 are furnished in Appendix 6.1.

Working Factories and Employment

6.8 There were 14399 registered working factories in Kerala at the end of December 1993. The total number of factories increased by 453 during the year 1993 from the previous year's level of 13946. (Fig. 6.1). It shows an increase of 3.25 per cent over the previous year. The growth in the number of factories during the period has been noticed in all districts except Thrissur and Wayanad. While there was a shortfall of 3 factories in Thrissur district during 1993 from the previous year's level, Wayanad district had the same number as in 1992. In the case of total number of factories, Ernakulam district continued to remain on top in 1993, with 2217 factories. Kollam district witnessed the largest increase in the number factories, from 1318 in 1992 to 1402 by the end of December 1993.

6.9 The total number of workers employed in the registered factory sector in the State has increased by 7133 to 4.13 lakhs in 1993 over the previous year's level of 4.06 lakhs, showing an increase of 1.78 per cent (Fig. 6.2). The number of workers in all districts except Thiruvananthapuram, Thrissur, Malappuram and Wayanad increased during the year. Maximum increase in the number of workers was noticed in Kollam district with an increase of 1956 from 39943 in December 1992 to 41899 as on 31st December 1993. The district-wise distribution of registered working factories and workers employed there on during 1992 and 1993 is furnished in Table 6.1

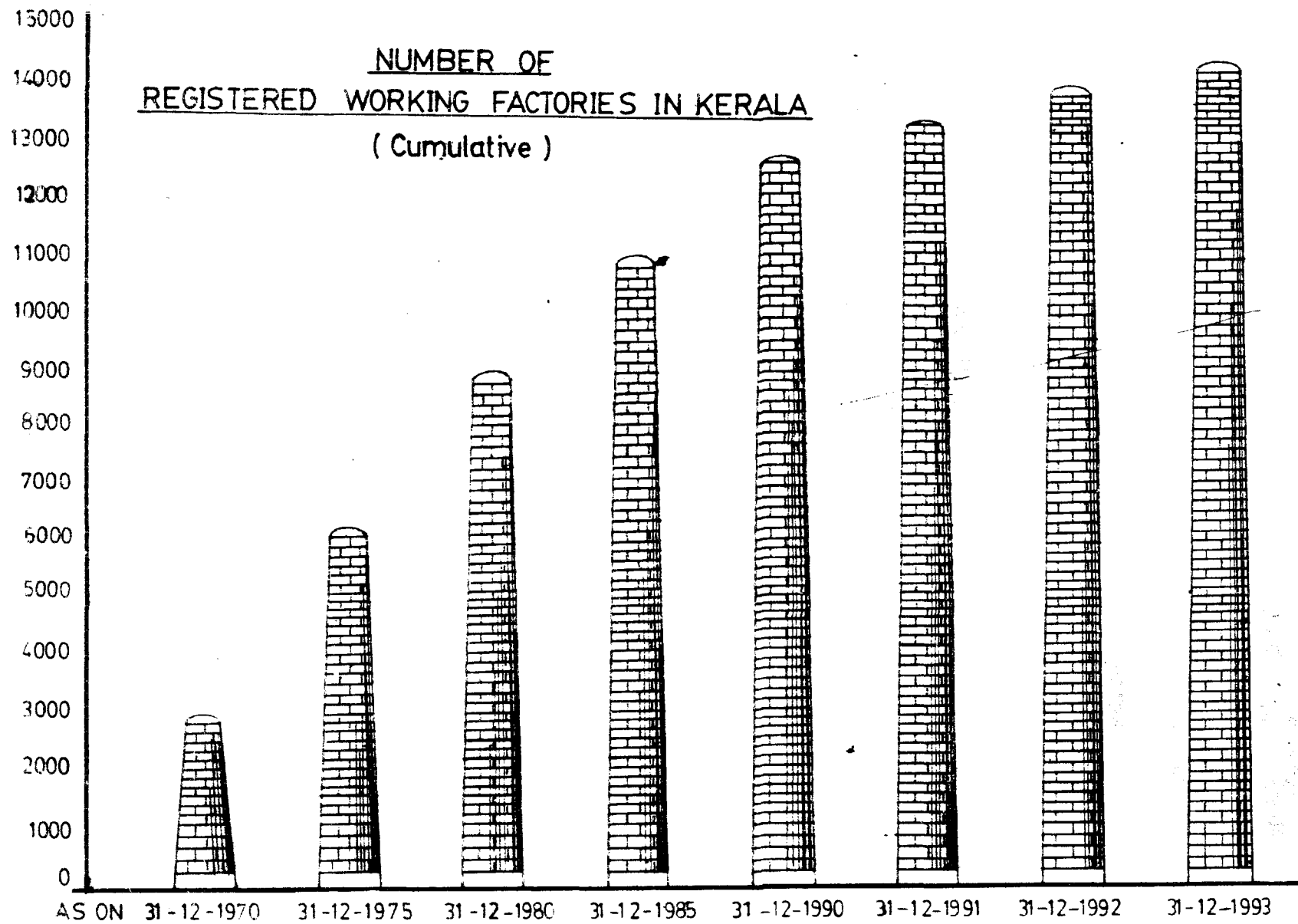


Fig. 6.1

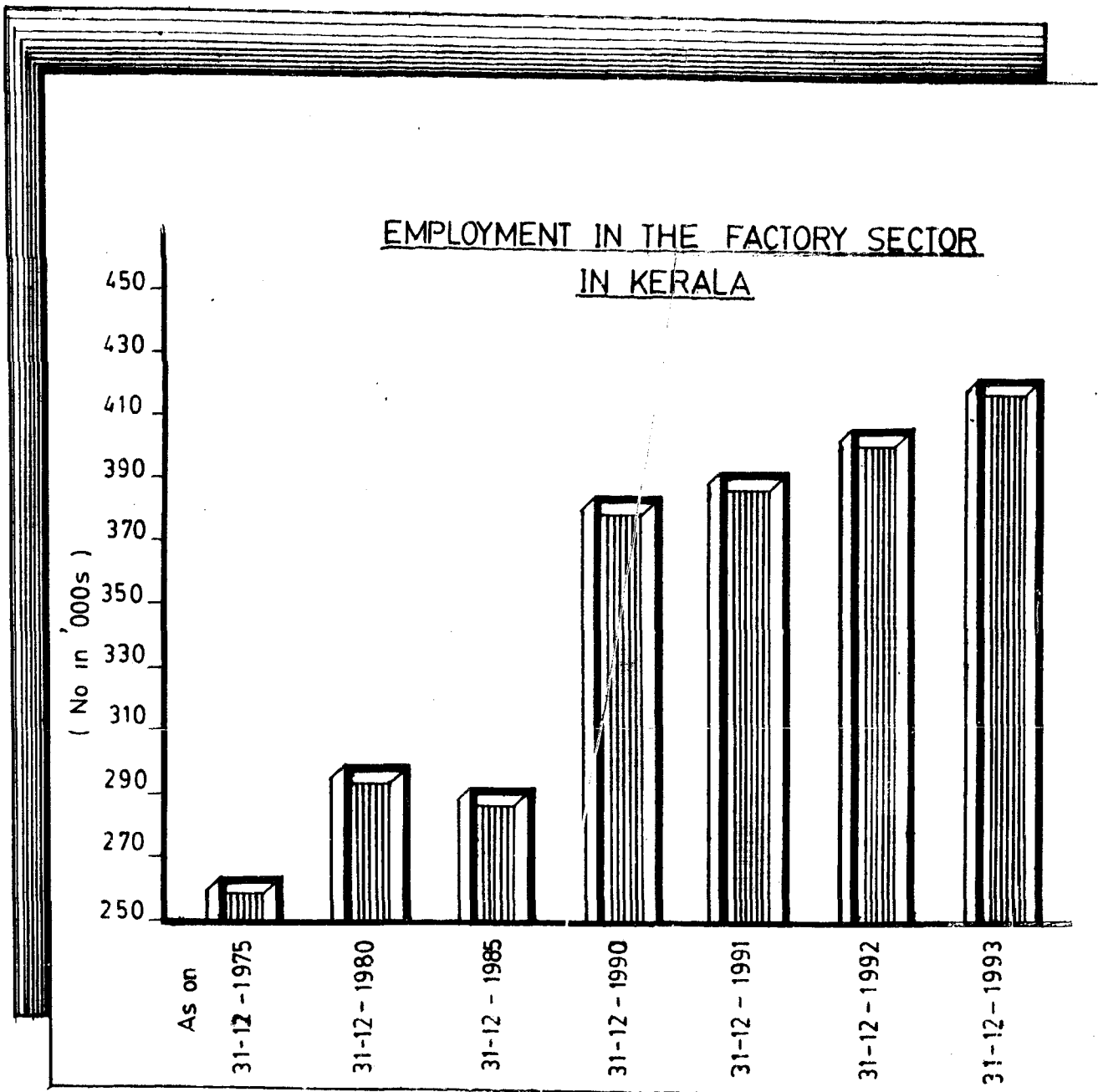


Fig. 6.2

Tables 6.1

Number of Registered Working Factories and Employment in Kerala as on 31st December 1993

| Sl. No. | District | No. of Factories | | Employment (Nos.) | |
|---------|--------------------|------------------|----------|-------------------|----------|
| | | 1992 (R) | 1993 (P) | 1992 (R) | 1993 (P) |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Thiruvananthapuram | 713 | 745 | 28062 | 27976 |
| 2. | Kollam | 1318 | 1402 | 139943 | 141899 |
| 3. | Pathanamthitta | 304 | 344 | 8432 | 9796 |
| 4. | Alappuzha | 823 | 867 | 21277 | 21797 |
| 5. | Kottayam | 1080 | 1136 | 17197 | 17819 |
| 6. | Idukki | 283 | 285 | 7137 | 7196 |
| 7. | Ernakulam | 2137 | 2217 | 63843 | 65543 |
| 8. | Thrissur | 1898 | 1895 | 29667 | 29464 |
| 9. | Palakkad | 1467 | 1504 | 22385 | 22794 |
| 10. | Malappuram | 762 | 765 | 9549 | 9507 |
| 11. | Kozhikode | 1512 | 1562 | 29536 | 29960 |
| 12. | Wayanad | 123 | 123 | 2139 | 2059 |
| 13. | Kannur | 1322 | 1348 | 23829 | 24310 |
| 14. | Kasaragod | 204 | 206 | 2842 | 2851 |
| Total | | 13946 | 14399 | 405838 | 412971 |

R : Revised, P : Provisional

Source : Directorate of Economics and Statistics, Thiruvananthapuram.

Industrial Disputes

6.10 The number of industrial disputes, covering more than 36 different types of industries, handled in the State decreased from 13356 in 1991-92 to 12500 in 1993-94. This is an indication of the declining trend in the occurrence of industrial disputes during the period. While 888 fresh disputes arose in the State during 1991-92, it declined to 6578 in 1993-94. However the percentage of disputes settled showed

a decline of 2.29 in 1993-94 compared to that in 1991-92. While 59.70 per cent of the disputes were settled in 1991-92, in 1993-94 only 57.41 per cent were settled. The number of disputes that led to strikes and lock outs increased from 70 in 1991-92 to 78 in 1993-94, while the workers affected by strikes and lockouts decreased from 125925 in 1992-93 to 63094 in 1993-94. The total number of mandays lost due to strikes and lock outs during 1993-94 was 26.24 lakhs as against 28.83 lakhs in 1992-93 and 19.37 lakhs in

1991-92. The details of disputes arose, from 1991-92 to 1993-94 are furnished in handled etc. in the State during the period Table 6.2

Table 6.2
Industrial Disputes Arose, Handled etc. in Kerala, 1991-92 to 1993-94

| Sl. No. | Particulars | 1991-92 | 1992-93 | 1993-94 |
|---------|--|---------|---------|---------|
| 1. | No. of Disputes at the beginning of the year | 5468 | 5383 | 5922 |
| 2. | No. of Disputes arose during the year | 7888 | 7234 | 6578 |
| 3. | No. of Disputes handled during the year (1 + 2) | 13356 | 12617 | 12500 |
| 4. | No. of Disputes settled during the year | | | |
| | a) By Voluntary Negotiation between parties | 3157 | 2449 | 2229 |
| | b) By Conciliation | 1543 | 1578 | 2106 |
| | c) By withdrawal | 2756 | 2084 | 2162 |
| | d) Referred for Arbitration | --- | --- | --- |
| | e) Referred for Adjudication | 517 | 584 | 679 |
| | f) Total number of Disputes settled (a to e) | 7973 | 6695 | 7176 |
| 5. | No. of Disputes pending at the end of the year (3-4) | 5383 | 5922 | 5324 |
| 6. | No. of Disputes led to : | | | |
| | a) Strike (including pending previously) | 41 | 43 | 47 |
| | b) Lock out (including pending previously) | 29 | 29 | 31 |
| | c) Total | 70 | 72 | 78 |
| 7. | No. of workers affected due to : | | | |
| | a) Strike | 20409 | 115198 | 51209 |
| | b) Lockout | 7243 | 10727 | 11885 |
| | c) Total | 27652 | 125925 | 63094 |
| 8. | Mandays lost due to | | | |
| | a) Strike | 561747 | 1785205 | 518396 |
| | b) Lock out | 975670 | 1098163 | 2105226 |
| | c) Total | 1537417 | 2883368 | 2623622 |

Source : Labour Commissioner, Thiruvananthapuram.

Joint Stock Companies

6.11 There were 5925 Joint Stock Companies consisting of 5040 private limited and 885 public limited companies in Kerala at the end of March 1994. While 745 companies comprising 676 private limited and 69 public limited companies were newly registered in the State during 1993-94, 43 private limited and 6 public limited companies were either wound up or struck off or amalgamated. When one of the private limited companies working in the State was transferred

to another State during the year under review, 2 private limited companies were transferred to Kerala from other States. Thus the net addition to the total number of Joint Stock Companies in Kerala during 1993-94 was 697. The total number of Government Companies in Kerala during 1993-94 remained the same as that in the previous year, at 102 companies consisting of 80 private limited and 22 public limited companies. The details of Joint Stock Companies in Kerala as at the end of March 1993 and 1994 are furnished in Table 6.3.

Table 6.3

Joint Stock Companies in Kerala

| Sl. No. | Particulars | Private Limited | Public Limited | Total |
|---------|--|-----------------|----------------|-------|
| 1. | Number of Joint Stock Companies in Kerala as on 31-3-1993 | 4406 | 822 | 5228 |
| 2. | Number Companies Newly Registered during 1993-94 | 676 | 69 | 745 |
| 3. | Number of Companies Transferred to Kerala from other States during 1993-94 | 2 | --- | 2 |
| 4. | Number of Companies wound up/Struck off/ Amalgamated during 1993-94 | 43 | 6 | 49 |
| 5. | Number of Companies transferred to other States from Kerala during 1993-94 | 1 | --- | 1 |
| 6. | Net addition to the Total Number of Joint Stock Companies in Kerala during 1993-94 [Items (2+3) - (4+5)] | 634 | 63 | 697 |
| 7. | Total Number of Joint Stock Companies in Kerala as on 31-3-1994 [Items (1+6)] | 5040 | 885 | 5925 |
| 8. | Total Number of Government Companies in Kerala as on 31-3-1993 | 80 | 22 | 102 |
| 9. | Number of Government Companies registered in Kerala during 1993-94 | --- | --- | --- |
| 10. | Number of Government Companies wound up during 1993-94 | --- | --- | --- |
| 11. | Net addition to the number of Government Companies during 1993-94 [Items (9-10)] | --- | --- | --- |
| 12. | Total Number of Government Companies in Kerala as on 31-3-1994 [Items (8+11)] | 80 | 22 | 102 |

Source : Registrar of Companies, Kerala.

Industrial Promotion Agencies

Kerala State Industrial Development Corporation

6.12 The Corporation, registered as a Government undertaking with the prime objective of organising, stimulating and assisting industrial development of Kerala, continues to promote, finance and develop large and medium industries in the State, besides assisting Government in effecting its policies and programmes in stepping up industrial investment in the State. There has been substantial improvement in the various facets of K.S.I.D.C.'s development activities during the last three years. This is evident from the trends in the number of projects completed, number of projects taken up for implementation and in the financial sanctions and disbursements, the details of which are furnished in tables 6.4 and 6.5. As at the end of March 1994, as many as 55 projects with an

aggregate estimated cost of Rs. 218 crores were under various stages of implementation. Besides, 12 other projects having a total cost of Rs. 202 crores were under different stages of finalisation. With the financial and promotional assistance of the Corporation 37 projects have been completed and commissioned in the joint sector in the State. Out of these the Corporation's share holding in as many as 11 companies have since been partly/fully disinvested as at the end of March 1994. Thus only 26 companies are currently on the 'Joint Sector' roll of KSIDC with the Corporation's share holding amounting to 26 per cent or more. The Corporation's total recovery of principal and interest on loans from assisted units amounted to Rs.16.38 crores during 1993-94 as against Rs.16.31 crores during the previous year. The net profit of the Corporation for 1993-94 was Rs.211.07 lakhs as against Rs. 122.36 lakhs in the previous year.

Table 6.4

Kerala State Industrial Development Corporation Limited - Physical Performance, 1991-92 to 1993-94

| Sl. No. | Particulars | 1991-92 | 1992-93 | 1993-94 |
|-----------|--|---------|---------|---------|
| 1. | Projects Completed | | | |
| | a) Number of Projects | 18 | 33 | 42 |
| | b) Aggregate cost (Rs. crores) | 26.32 | 84.80 | 138.47 |
| | c) Employment Potential (Nos.) | 1561 | 2907 | 3888 |
| 2. | Projects taken up for implementation | | | |
| | a) Number of projects | 29 | 39 | 46 |
| | b) Aggregate cost (Rs. crores) | 63.30 | 274.24 | 147.99 |
| | c) Employment Potential (Nos.) | 3195 | 5060 | 2870 |
| 3. | Projects cleared by KSIDC Board | | | |
| | a) Number of projects | 40 | 51 | 47 |
| | b) Aggregate cost (Rs. crores) | 167.83 | 489.41 | 253.62 |
| | c) Employment Potential (Nos.) | 4817 | 6985 | 2946 |
| 4. | Memorandum of Understanding signed with Private Parties | | | |
| | a) Number of projects | 36 | 54 | 27 |
| | b) Aggregate cost (estimated) (Rs. crores) | 1553 | 983 | 533 |

Source : K.S.I.D.C. Limited, Thiruvananthapuram

Table 6.5

Trends in Financial Assistance Sanctioned and Disbursed by Kerala State Industrial Development Corporation Limited during the period from 1991-92 to 1993-94

(Rs. lakhs)

| Sl. No. | Mode of Assistance | 1991-92 | | 1992-93 | | 1993-94 | |
|---------|--------------------|----------------|--------------|----------------|--------------|----------------|--------------|
| | | Gross sanction | Disbursement | Gross sanction | Disbursement | Gross sanction | Disbursement |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Share Capital | 591.67 | 392.21 | 1763.67 | 379.58 | 1303.21 | 2984.55 |
| 2. | Loan | 2852.47 | 2012.57 | 3785.77 | 2344.07 | 3570.18 | |
| 3. | Guarantee | 977.83 | 977.83 | --- | --- | --- | --- |
| Total | | 4421.97 | 3382.61 | 5549.44 | 2723.65 | 4873.39 | 2984.55 |

Source : *KSIDC Ltd., Thiruvananthapuram.*

Kerala State Electronics Development Corporation Ltd.

6.13 The Corporation has been managing eight subsidiary and five associate units during the period under review. It was operating nine manufacturing divisions of its own as well. In the year 1993-94, the Corporation could achieve a turn over of Rs. 130 crores against the target of Rs. 152 crores. 35 to 40 per cent of the turn over was expected from communication products. Facility to manufacture communication equipment was extended to other divisions also in view of the potential then existed. But changes in DOT policies resulted in a reduction in demand and lack of orders for these products had its impact on the total turn over. However, the Corporation could reach a turn over level as attained in 1992-93, and generate profit of Rs. 106.65 lakhs during 1993-94, slightly less than the level of Rs. 117.51 lakhs achieved in the previous year. The accumulated loss could be reduced to Rs. 6722.65 lakhs at the end of March 1994 from the level of Rs 6829.27 lakhs during the previous year.

Kerala State Industrial Enterprises Ltd.

6.14 Kerala State Industrial Enterprises Ltd. is a holding company that has been engaged in the management of the affairs of its subsidiary companies viz. The Kerala Soaps and Oils Ltd., Kerala State Drugs and Pharmaceuticals Ltd.,

Kerala State Salicylates and Chemicals Ltd. and Travancore Plywood Industries Ltd., Operation of Air Cargo Complexes and Trading. However most of its subsidiary companies have been defunct for more than two years and they have been listed for disinvestment by Government of Kerala. The other activities of the company are operation of Air Cargo complexes at Thiruvananthapuram and Kochi. The Thiruvananthapuram Air Cargo Complex that has been operated by IAAI for some time has been returned to the Company in October 1993. There was a total turnover of Rs. 29.27 lakhs in respect of sale of crockery, Glass ware etc. and Note Books during 1993-94 as against Rs. 19.50 lakhs in 1992-93. Besides, an amount of Rs. 69.03 lakhs was earned by the Company as income from Air Cargo Complexes during the year under review. The Company is running on profit and the net profit increased from Rs. 0.23 lakh in 1992-93 to Rs. 1.29 lakhs in 1993-94. The Company could also reduce its accumulated loss to Rs.12.06 lakhs at the end of March 1994 from the level of Rs. 13.35 lakhs in the previous year.

Kerala State Industrial Products Trading Corporation Ltd.

6.15 The main activity of the Corporation is confined to the trading of the monopoly products of Government Companies and industrial concerns. It has been functioning as the sole selling agent for the products of Travancore

Titanium Products Ltd. since 1979. The Corporation has been running on profit from 1979-80 onwards continuously and paying dividend from 1981-82. The sales turn over of the Company during the year 1993-94 was Rs. 5492.72 lakhs as against Rs. 7547.23 lakhs in 1992-93. The decline in sales during the year under review was due to loss of production of titanium products on account of lockout of the Company. However, the Corporation was able to achieve a net profit of Rs. 58.18 lakhs in 1993-94 as against Rs. 59.23 lakhs in the previous year on effective financial management. An amount of Rs. 18.61 lakhs has been remitted to Government by way of service charges during 1993-94 in addition to the payment of dividend at 20 per cent.

Kerala State Textile Corporation Ltd.

6.16 This Corporation was managing four textile mills, viz., the Kottayam Textiles, Prabhuram Millis, Malabar Spinning and Weaving Mills and Edarikode Textiles during 1993-94. These four mills together produced 27.06 lakh kgs. of cotton yarn during 1993-94 as against 23.34 lakh kgs. in 1992-93. This shows an increase of 6.79 per cent in the production of cotton yarn over the previous year. An increase of 12.83 per cent was also noticed in the value of production of cotton yarn to Rs.2659.48 lakhs in 1993-94, com-

pared to the previous year's level of Rs.2354.04 lakhs. The trend in increase of production of cotton yarn and its value for the last five years are given in Table 6.6. But the value of production in the Knitwear and Elastic division of the Corporation declined from Rs.19.65 lakhs in 1992-93 to Rs.2.19 lakhs in 1993-94. The total sales turn over of the Corporation during the period under review reached Rs.2821.60 lakhs from the previous year's level of Rs.2400.78 lakhs, an increase of 17.53 per cent. The working results of the Corporation during the year 1993-94 has showed a net profit of Rs.191.47 lakhs and a cash profit of Rs.345.45 lakhs as against budgeted net profit of Rs.38.44 lakhs and budgeted cash profit of Rs.177.19 lakhs. This achievement has been mainly contributed by the favourable prices of cotton and yarn that prevailed. The improved working result of the Corporation enabled it to reduce its accumulated loss to Rs.394.28 lakhs at the end of March 1994 from Rs.574.76 lakhs of the previous year.

6.17 The Corporation has drawn up a scheme for capacity enhancement of Edarikode Textiles, Malappuram district from 15,360 spindles to 24,960 spindles with a total capital cost of Rs.588 lakhs. It also proposes to set up a new spinning mill project of 6000 spindles at Kozhikode district involving a capital outlay of Rs.355 lakhs during the Eighth Plan Period.

Table 6.6

Consolidated production details of Malabar Spinning and Weaving Mills, Kottayam Textiles, Prabhuram Mills and Edarikode Textiles managed by the Kerala State Textile Corporation

| Year | Cotton Yarn | | Cloth/other items | | Total Value of Production (Rs. lakhs) (Rs. lakhs) |
|---------|---------------------------|----------------------|---------------------------|----------------------|---|
| | Production (lakh. kg.) | Value (Rs. lakhs) | Production (lakh. kg.) | Value (Rs. lakhs) | |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1989-90 | 19.57 | 1349.94 | --- | 11.34 | 1361.28 |
| 1990-91 | 26.08 | 1673.77 | --- | 16.50 | 1690.27 |
| 1991-92 | 23.89 | 1822.79 | --- | 16.93 | 1839.63 |
| 1992-93 | 25.34 | 2357.04 | --- | 19.64 | 2376.68 |
| 1993-94 | 27.06 | 2659.48 | --- | 2.19 | 2661.67 |

Source : Kerala State Textile Corporation Limited

Kerala Industrial Infrastructure Development Corporation (KINFRA)

6.18 Set up in the year 1993 as a Statutory Body for accelerating the industrial development of Kerala by providing all the necessary infrastructure facilities, KINFRA is implementing 3 major projects and have initiated 6 other major schemes aimed at the overall integrated industrial infrastructure development of the State. An Export Promotion Industrial Park is being established at Kakkanad, Ernakulam for which around 200 acres of land has been acquired during 1993-94. A joint venture Company viz., Western India Kinfra Limited has been formed with M/s. Western India Services & Estates Limited for the promotion of Integrated Industrial Township in 750 acres of land at Kanjikode in Palakkad district. Kinfra is also setting up an International Apparel Park at Kazhakkuttom in Thiruvananthapuram district for which around 90 acres of land has been acquired. This park is envisaged to provide all facilities for more than 50 garment export units. The International Apparel Park would provide employment to around 26,000 people. The Corporation also plan to set up an International Industrial Park at Kochi, Techno Industrial Park at Kakkancherry, Calicut University Campus, and Industrial Parks at Malappuram, Kozhikkode and Ernakulam. It is expected that the measures initiated by KINFRA will greatly contribute to the overall industrial growth of the State in the coming years.

State Public Sector Manufacturing Industrial Enterprises

6.19 As at the end of March 1994, there were 44 manufacturing units in the State Public Sector under the administrative control of the Industries Department. Among these, the State Government was holding the entire share capital of 20 units, while the majority shares of the remaining 24 units were jointly held by the State Government and its holding Companies. The Kerala Special Refractories Ltd. and the Kerala Hitech Industries Ltd. had not commenced commercial production during the period under review. The performance of Foam Mattings (India) Ltd. has been dealt with elsewhere in this chapter. Some of the units are yet to finalise their accounts for the year 1993-94. The performance

of 29 companies for which data are available for this period has been attempted below.

6.20 Among the public sector manufacturing units whose shares are fully owned by the State Government, the Kerala Minerals and Metals Ltd., Malabar Cements Ltd., Kerala Automobiles Ltd. and Sitaram Textiles Ltd. continued to turn out reasonable better performance in terms of value of production and sales turnover during 1993-94. The performance of Kerala Clays and Ceramic Products Ltd., Kerala Electrical and Allied Engineering Company Ltd., Steel Industrials Kerala Ltd., and Steel and Industrial Forgings Ltd. was also encouraging. While the sales turnover of Kerala State Drugs and Pharmaceuticals Ltd. increased in 1993-94 from the level of 1992-93, its value of production declined sharply. The units with poor performance in production and turnover during 1993-94 were Autokast Ltd., Scooters Kerala Ltd., the Kerala Ceramics Ltd., and Trivandrum Spinning Mills Ltd. The Kerala Minerals and Metals Ltd. and Malabar Cements Ltd., showed better capacity utilisation during 1993-94 than that in the previous year. Relevant data relating to these units are given in Appendix tables 6.2 to 6.4. Among the public sector units in which Government is holding majority shares, 5 subsidiary companies of the Kerala State Electronic Development Corporation Ltd., Kerala Construction Components Ltd., Travancore Cochin Chemicals Ltd., Traco Cable Company Ltd. and United Electrical Industries Ltd., showed better working results in terms of value of production and sales turnover during the period under review. The rate of capacity utilisation in all these units, except for the production of PVC covered and Bare Copper Conductors and Jelly Filled Telephone Cables in Traco Cable Company Ltd., also increased during 1993-94 from the previous year's level. While the value of production of Transformers and Electricals Kerala Ltd., increased, a marginal decline in its sales turnover was noticed in the year compared to those of in the previous year. Performance of seven companies with majority shares of the State Government were poor in terms of value of production and sales turnover during the period under review. Details of the units under the Government majority group are furnished in Appendix tables 6.5 to 6.7

6.21 Out of the 29 manufacturing units, 14 units had witnessed mandays loss and loss of production on account of various reasons during 1993-94, while 16 units had to face these problems in 1992-93. 128419 mandays were lost

during 1993-94 which resulted in a production loss of more than Rs.914 lakhs. Certain units have not yet estimated their production loss due to loss of their mandays. Table 6.7 gives these details with comparative figures for 1992-93.

Table 6.7

Details of Mandays Lost and Production Loss in State Public Sector Manufacturing Industrial Enterprises during 1992-93 and 1993-94

| Sl. No. | Name of Company | Main Reasons | Mandays lost (Nos) | | Production loss (Rs. lakhs) | |
|---|---|---|--------------------|---------|-----------------------------|---------|
| | | | 1992-93 | 1993-94 | 1992-93 | 1993-94 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| A. Government Owned Companies | | | | | | |
| 1. | Autokast Ltd. | Absence of Employees and Bandh | 18683 | 23098 | N.E | N.E |
| 2. | Kerala Automobiles Ltd. | Bandh | 3302 | --- | 14.58 | --- |
| 3. | Kerala Electrical & Allied Engineering Company Ltd. | Bandh, Power Failure and Lay off. | 1280 | 977 | N.E | N.E |
| 4. | Kerala State Drugs & Pharmaceuticals Ltd. | Various Reasons | 24775 | 25748 | N.E. | N.E |
| 5. | Sitaram Textiles Ltd. | Bandh | 1364 | 1370 | 7.27 | 6.51 |
| 6. | Steel & Industrial Forgings Ltd. | Raw Material shortage, Machine Break down, Power Failure etc. | 251 | 406 | 268.00 | 565.00 |
| 7. | Steel Industrials Kerala Ltd. | Bandh, Power Failure, Machine Break down etc. | 10230 | 11180 | 42.69 | 40.32 |
| 8. | The Kerala Ceramics Ltd. | Various Reasons | 545 | 294 | 2.03 | 1.15 |
| 9. | Trivandrum Spinning Mills Ltd. | Various Reasons | 37225 | 40430 | 208.16 | 206.52 |
| Sub Total (A) | | | 97655 | 103503 | 542.73 | 819.50 |
| B. Government majority Companies | | | | | | |
| 1. | Keltron Counters Ltd. | Various Reasons | 3096 | 4460 | N.E. | N.E. |
| 2. | Keltron Power Devices Ltd. | Various Reasons | 10950 | 12400 | 6.07 | 5.26 |
| 3. | Steel Complex Ltd. | Power Problem, Raw Material Shortage, Maintenance work etc. | 227 | --- | 291.10 | --- |
| 4. | The Metal Industries Ltd. | Raw Material Shortage, Power Failure Lay off etc. | 3845 | 5203 | 60.00 | 32.00 |
| 5. | Travancore Titanium Products Ltd. | Lock out | 1375 | 521 | N.E. | N.E. |
| 6. | Traco Cable Company Ltd. | Irregular supply of Aluminium Rods, machine Break down, Raw material shortage, Power failure etc. | 4104 | 2186 | 58.88 | 35.61 |
| 7. | Kerala Construction Components Ltd. | Power Failure, Machine Repair, Heavy Rain, Shortage of workers etc. | 149 | 146 | 21.55 | 21.24 |
| Sub Total (B) | | | 23746 | 24916 | 437.60 | 94.11 |
| Total (A + B) | | | 121401 | 128419 | 980.33 | 913.61 |

N.E : Not Estimated.

6.22 On reviewing 44 State Public Sector Industrial Enterprises including manufacturing units, for which information is available, it is seen that 23 units were working on profit during 1993-94. This included 16 manufacturing units. Among the Holding Companies, Kerala State Electronic Development Corporation Ltd; Kerala State Industrial Enterprises Ltd., and the Kerala State Textile Corporation also earned profit during the year under review. These 23 units together earned a net profit of Rs.43.46 crores, major contributors being the Chemical Industries Group. Out of the remaining 19 units, 17 units together incurred a total loss of about Rs.28 crores. The other two units have not yet started

commercial production. Among the 44 units 35 were having accumulated losses amounting to Rs.566.08 crores as against their total paid up capital of Rs.468.57 crores as on 31-3-1994. The accumulated loss of 21 companies had exceeded their paid up share capital and the total accumulated loss of these 21 companies stood at Rs.462.48 crores as against their total paid up share capital of Rs.141.26 crores as at the end of March, 1994. The details of these units are given in table 6.8. The group-wise and unit-wise working results of the 44 Public Sector Undertakings coming under the administrative control of the Industries Department are furnished in Appendix table - 6.8.

Table 6.8

Details of Public Sector Industrial Undertakings whose Accumulated Loss Exceeded their paid up capital

| (Amount in Rs. lakhs) | | | |
|-------------------------------|--|---------------------------------|----------------------------------|
| Sl. No. | Name of undertaking | Paid up capital as on 31-3-1994 | Accumulated loss as on 31-3-1994 |
| (1) | (2) | (3) | (4) |
| Electronics | | | |
| 1. | Keltron Counters Ltd. | 393.90 | 1003.24 |
| 2. | Keltron Magnetics Ltd. | 25.09 | 66.72 |
| 3. | Keltron Resistors Ltd. | 139.81 | 163.73 |
| 4. | Keltron Power Devices Ltd. | 410.23 | 1836.90 |
| 5. | Keltron Rectifiers Ltd. | 274.36 | 1171.62 |
| KSIE Group | | | |
| 6. | Kerala State Drugs and Pharmaceuticals Limited | 430.00 | 2546.49 |
| Chemicals | | | |
| 7. | The Kerala Minerals and Metals Ltd. | 3093.27 | 9225.88 |
| Textiles | | | |
| 8. | Sitaram Textiles Ltd. | 420.00 | 1441.95 |
| 9. | Trivandrum Spinning Mills Ltd. | 264.99 | 766.52 |
| Electricals and Cables | | | |
| 10. | The Metropolitan Engineering Company Ltd. | 192.91 | 371.50 |
| 11. | Transformers and Electricals Kerala Ltd. | 1347.51 | 4026.12 |
| Engineering | | | |
| 12. | Scooters Kerala Ltd. | 229.99 | 316.85 |
| 13. | Astral Watches Ltd. | 8.00 | 55.63 |

| (1) | (2) | (3) | (4) |
|----------------------------------|--|-----------------|-----------------|
| 14. | Kerala Automobiles Ltd. | 323.00 | 1560.00 |
| 15. | Steel and Industrial Forgings Ltd. | 450.00 | 1479.00 |
| 16. | Autokast Ltd. | 1310.00 | 5264.56 |
| Ceramics and Refractories | | | |
| 17. | Kerala Construction Components Ltd. | 28.07 | 58.00 |
| 18. | The Kerala Ceramics Ltd. | 1031.98 | 1206.11 |
| Traditional | | | |
| 19. | Kerala State Coir Corporation Ltd. | 242.54 | 268.47 |
| 20. | The Kerala State Cashew Development Corporation Ltd. | 3058.95 | 12318.15 |
| Promotional | | | |
| 21. | Kerala Small Industries Development Corporation Ltd. | 451.59 | 1100.54 |
| Total | | 14126.19 | 46247.98 |

Central Sector Industrial Investment in Kerala

6.23 As on 31st March 1993, the Central Investment (in terms of Gross Block) in the industrial sector of Kerala has increased to Rs.2275 crores from Rs.2000 crores in March 1992 (Fig.3). The share of Central Sector Investment in Kerala has been steadily declining since 1975 from 3.2 per cent to a low of 1.3% as on 31st March 1992 (Fig.4). The share remained stationary at 1.3 per cent as at the end of March 1993. The total central sector industrial investment in the Country has increased from Rs.153893 crores in March 1992 to Rs.173501 crores by the end of March 1993, showing an increase of Rs.19608 crores during the financial year 1992-93. Out of this Kerala received Rs.275 crores constituting 1.4 per cent of the incremental investment made by the Central Government in the industrial sector in the Country as a whole. The five States of Maharashtra, Andhra Pradesh, Madhya Pradesh, Uttar Pradesh and Bihar together continued to account for more than 50 per cent of the total Central investment in the Country as on 31-3-1992. (see Appendix 6.9). The data relating to the central sector investment in the Country and Kerala at different intervals are furnished in table 6.9.

Table 6.9

Central Sector Industrial Investment in Kerala (Rs. crores)

| Year | Investment (Gross Block) as on 31st March | | Percentage of Column (3) to Column (2) |
|------|---|--------|--|
| | All India | Kerala | |
| (1) | (2) | (3) | (4) |
| 1970 | 3795 | 116 | 3.1 |
| 1975 | 6242 | 202 | 3.2 |
| 1980 | 18161 | 423 | 2.3 |
| 1985 | 47323 | 831 | 1.8 |
| 1990 | 113430 | 1701 | 1.5 |
| 1991 | 130657 | 1853 | 1.4 |
| 1992 | 153893 | 2000 | 1.3 |
| 1993 | 173501 | 2275 | 1.3 |

6.24 Eighteen Central Sector Undertakings including five textile mills managed by the National Textile Corporation Ltd. were functioning in Kerala during 1993-94. They were :

1. Cochin Refineries Ltd., Kochi.
2. Cochin Shipyard Ltd., Kochi.
3. The Fertilizers and Chemicals Travancor Ltd., Aluva.

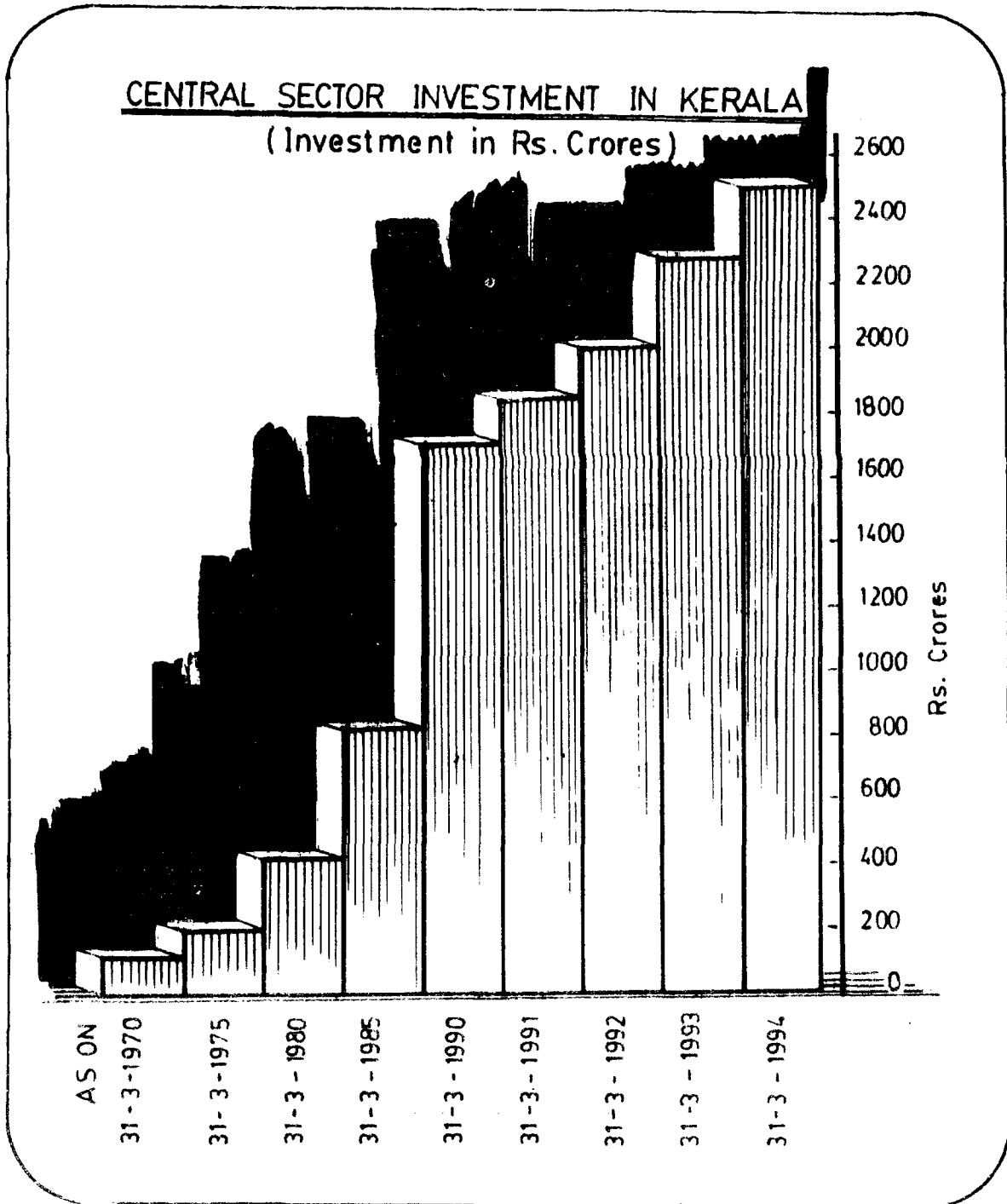


Fig. 6.3

PERCENTAGE SHARE OF KERALA IN THE TOTAL
CENTRAL SECTOR INVESTMENT IN THE COUNTRY

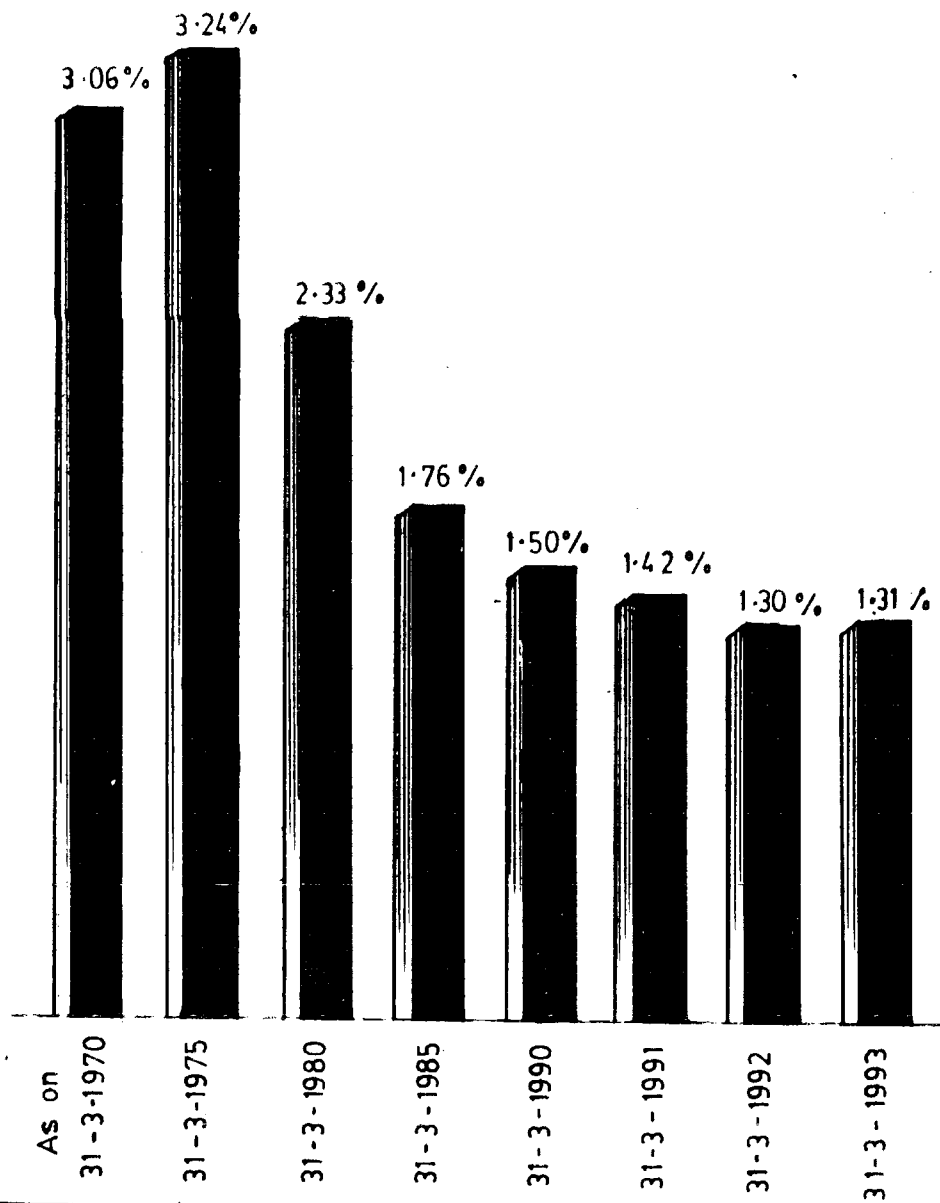


Fig. 6.4

4. Hindustan Newsprint Ltd., Kottayam.
5. Hindustan Latex Ltd., Thiruvananthapuram.
6. Indian Rare Earths Ltd., Rare Earths Division, Aluva.
7. Indian Telephone Industries Ltd., Palakkad.
8. Instrumentation Ltd., Palakkad.
9. Hindustan Insecticides Ltd., Udyogamandal.
10. Modern Food Industries (India) Ltd., Edappally.
11. H.M.T. Ltd., Kalamasseri.
12. Balmer lawrie and Company Ltd., Aroor.
13. Hindustan Organic Chemicals Ltd., Kochi.

Units under National Textile Corporation Ltd.

14. Cannanore Spinning and Weaving Mills, Kamur.
15. Vijayamohini Mills, Thiruvananthapuram.
16. Parvathi Mills, Kollam.
17. Kerala Lakshmi Mills, Thrissur.
18. Alagappa Textile (Cochin) Mills, Thrissur.

6.25 Certain salient features of the central sector manufacturing units working in Kerala are furnished in Appendix tables 6.10 to 6.13.

Small Scale Industries

6.26 The Small Scale Industries Sector showed tremendous growth during 1993-94 in regard to number of industrial units registered. The number of new small scale industrial units registered in the State during the financial year 1993-94 was 14533 against a target of 10500 units. The capital invested by these units amounted to Rs.16627.75 lakhs and created new employment opportunities to 60945 persons. The value of goods and services produced in the SSI Sector has also registered noticeable improvement as the estimated amount was as high as Rs.622 crores in 1993-1994 as against Rs.263 crores in the previous year. Of the total number of 14533 SSI units registered during 1993-94, 3742 units were run by women entrepreneurs and 1230 by SC/ST entrepreneurs. The District-wise performance indicates that the two districts of Ernakulam and Thiruvananthapuram continue to maintain their top

position: Ernakulam district accounted for 13 per cent of the total number of new SSI Units registered during the year followed by Thiruvananthapuram with 11 per cent. Idukki and Wayanad districts accounted for the lowest number of new SSI Units with only 430 and 250 units respectively. District-wise details of the Small Scale Industrial Units registered in Kerala during the year 1993-94 are furnished in Appendix 6.14.

6.27 The total number of SSI units registered in the State as on 31st March 1994 was 110384 (Fig. 6.5). The aggregate investment of all these units, which provided employment to 6.30 lakh persons, was Rs.1175.16 crores. The value of goods and services produced by these units during 1993-94 (excluding those in Kasaragod district) was estimated at Rs.3607.94 crores. District-wise details of registered small scale units in Kerala as on 31-3-1994 are given in Appendix 6.15. The average investment per unit, value of goods and services produced per unit in the small scale sector in the State have been worked out at Rs.1.06 lakhs, Rs.3.27 lakhs and six numbers respectively. On an average each small scale unit created employment for six persons.

6.28 Under the Intensive Industrialisation Programme (IIP) launched by the State Government on 1st February 1993, the main objective was to set up 30,000 new SSI units to provide employment to 1.5 lakh persons over a period of two years. The target for the first year was to set up 13,800 new SSI Units, but the State could achieve registration of 14383 new units during the first year itself. The capital invested by these units amounted to Rs.166.77 crores and provided employment to an estimated number of 63858 persons during the year 1993-94.

6.29 Under entrepreneurship Development Programme, a total number of 465 prospective entrepreneurs were trained during the year 1993-94 which included 108 SC/ST entrepreneurs also. Details of Entrepreneurship Development Programme conducted during 1993-94 is given in Appendix 6.16. Under Self Employment Programme, an amount of Rs.530.14 lakhs was sanctioned to 2924 persons for establishing their own ventures under Industry, Service and Business category during 1993-94. Out of this Rs.307.84 lakhs has been disbursed to 1683

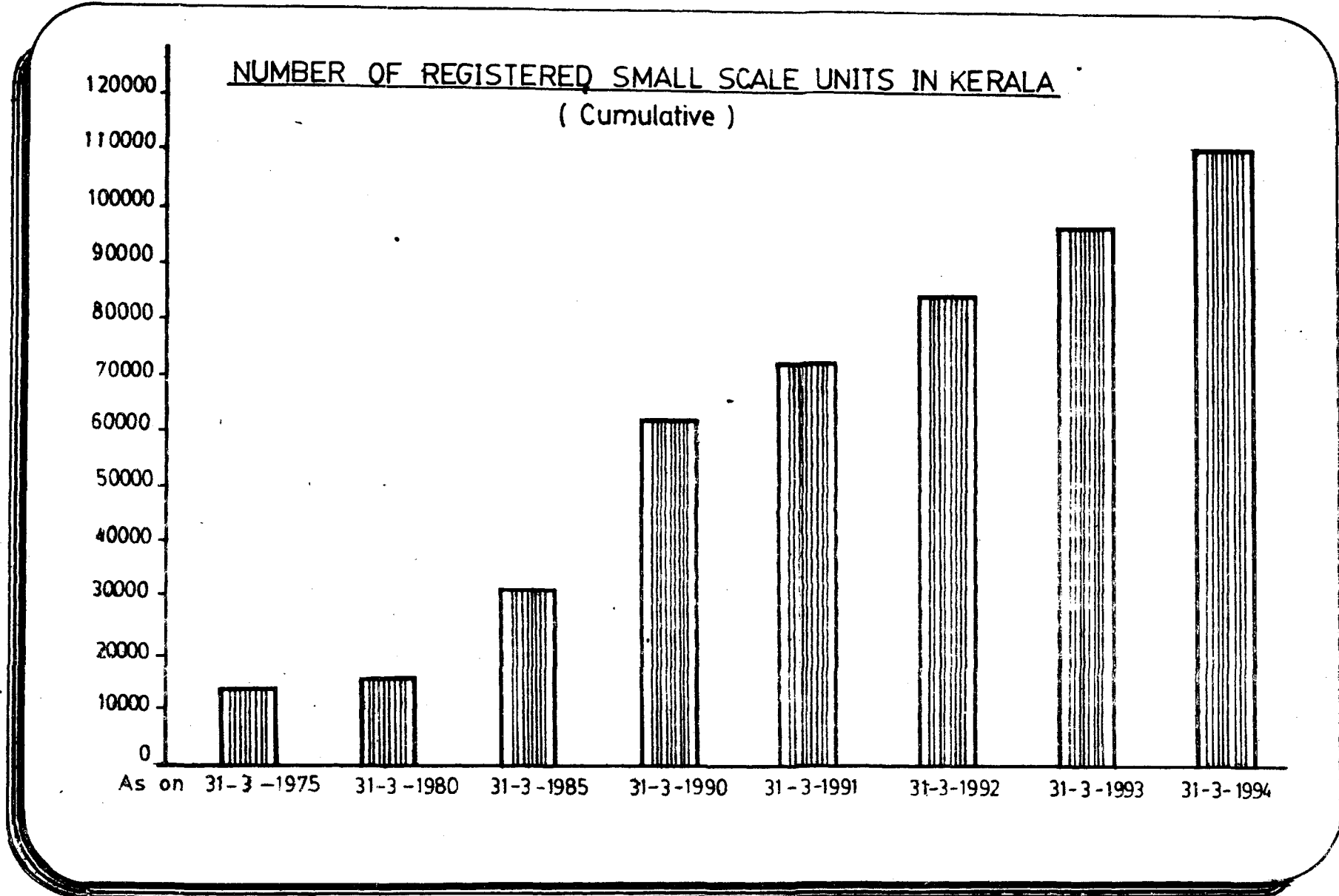


Fig. 25

beneficiaries during the year. Details of achievements under self employment are furnished in Appendix 6.17. The Government of India have also launched a new scheme namely 'Prime Minister's Rozgar Yojana (PMRY) on 2nd October 1993 for providing self employment to the educated unemployed youth in Urban area. Under PMRY Scheme an amount of Rs.730.51 lakhs was sanctioned to 1595 persons and Rs.499.99 lakhs was disbursed to 1002 beneficiaries during the year.

6.30 Under the Sick Unit Rehabilitation Programme, of the total number of 110384 units, 2588 units were identified as sick and about 2071 units were closed down during the year 1993-94. Steps had been taken by the District Industries Centres for the revival of the sick units and about 55 industrial units were revived during the year. District-wise details of the working status of SSI units is given in Appendix 6.18. During the year 1993-94 about 775 Artisan Units were established. The District-wise performance indicates that about 13.4 per cent of the total number of artisan units were started in Thiruvananthapuram district, followed by Kannur (12.4%) and Wayanad (11.9%) districts. District-wise details of Artisan units started during 1993-94 is furnished in Appendix 6.19. Under the Co-operative Sector, 76 Co-operative Societies were newly registered in the State during 1993-94 enhancing the total number of industrial co-operative societies (excluding Beedi Societies) to 1775 as on 30th June 1994. For details regarding the classification of industrial Co-operative Societies as on 30-6-1994 See Appendix 6.20.

Kerala Financial Corporation

6.31 The Kerala Financial Corporation is a public sector financial institution which provides long term loans to small and medium scale industries in the State. The Corporation received 2105 applications for an aggregate loan amount of Rs.105.29 crores during 1993-94 as against 2337 applications for Rs.110.44 crores received during the previous year. The gross sanctions during 1993-94 amounted to Rs.84.10 crores from 1993 parties as against Rs.93.11 crores for 2150 parties for the year 1992-93. The disbursement of loan during 1993-94 amounted to Rs.68.42 crores

to 1696 units against Rs.65.10 crores disbursed to 1879 units of the previous year. With the net effective sanction of Rs.77.34 crores during 1993-94, the cumulative effective sanction by the Corporation as at the end of March 1994 aggregated Rs.623.54 crores. The summary statement showing the operations of the Corporation is given in Appendix 6.21.

6.32 The industrially backward areas in the State consist of Idukki, and Wayanad (Category A); Alappuzha, Malappuram, Kannur and Kasaragod, (Category B), and Thiruvananthapuram and Thrissur, (Category C). Top priority has been given by the Corporation both in sanction and disbursement of loans for industrial units started in the above areas. Of the total amount of Rs.68.42 crores disbursed for 1696 units during 1993-94, an amount of Rs.31.08 crores (45.43 per cent) for 875 units (51.59 per cent) was disbursed to industrial units in backward districts. The details of district-wise disbursement of loan by Kerala Financial Corporation during the year 1993-94 is given in Appendix 6.22.

6.33 As in the earlier years, the Kerala Financial Corporation continued to support the small scale sector during 1993-94 also. Out of the total net effective sanction of Rs 77.34 crores to 1856 units, sanctions to the small scale units amounted to Rs.50.21 crores (64.92 per cent) to 895 units (48.22 per cent) like wise the amount disbursed to the small scale sector during the year was Rs.44.49 crores (65.02 per cent) for 847 units (49.94 per cent) where as the aggregate disbursement was Rs.68.42 crores to 1696 units. The cumulative amount of loan sanctioned (net) since the beginning to small scale industries was Rs.405.77 crores at the end of March 1994, as against the total sanction of Rs.623.54 crores to all units. The disbursement of loans to small scale industries amounted to Rs.353.94 crores out of the total disbursement of Rs.522.31 crores since its inception upto 31-3-1994. This means 65.08 per cent of the total amount sanctioned and 67.76 per cent of the total amount disbursed since the beginning was to small scale industries. The details of industry-wise classification of loan sanctioned and disbursed by the Corporation as on 31-3-1994 is furnished in Appendix 6.23.

6.34 Recovery of loan, being an important source of funds for the Corporation, was given the highest priority during the year under review. The total amount of arrears at the beginning of the year amounted to Rs.137.04 crores. With the addition of the current demand of Rs.108.02 crores, the total receivables during the year 1993-94 was Rs.245.06 crores. Against this the recovery during the year was Rs.83.62 crores representing just 34 per cent of the total receivables. Recovery during the year increased by 12 per cent over the recovery of Rs.74.32 crores during 1992-93. The total amount of arrears at the end of the year was Rs.155.81 crores.

6.35 The total share capital of the Kerala Financial Corporation including share advance as on 31-3-1994 is Rs.46 crores. The net profit after provision and transfer to reserve is Rs.56.33 lakhs. Progress of the working of Kerala Financial Corporation for the past nine years since 1985-86 is furnished in Appendix 6.24.

Kerala Small Industries Development Corporation (SIDCO)

6.36 The main activities of the Small Industries Development Corporation are to aid, counsel, finance, protect and promote the interests of small scale industries in the State. Apart from the general functions, the functional activities of the corporation are being carried out by its various divisions. The achievements in respect of the functional activities of various divisions are given below.

6.37 The Raw Material Division of SIDCO procures and distributes scarce raw materials to the registered SSI units in the State through the raw material depots in each district. The quantity of various raw material supplied through various depots amounted to 16041 tonnes and the number of small scale beneficiaries was 1779 during the year 1993-94. During 1993-94, this division registered a turnover of about Rs.27.41 crores and earned a profit of Rs.29.52 lakhs. The Production Division having 12 production and service units producing wooden furniture, survey instrument and similar other items is running on loss. Lack of working capital facility, obsolete machinery, lack of marketing facilities are the main reasons for the loss incurred by the

division. During 1993-94, this division registered a turnover of Rs.235.42 lakhs.

6.38 SIDCO is having 17 conventional INDUSTRIAL ESTATES, AND 36 MINI INDUSTRIAL ESTATES. DURING 1993-94, ALL 527 SHEDS IN THE CONVENTIONAL INDUSTRIAL ESTATES ARE IN OCCUPATION BY 323 UNITS. The revenue received from these estates is not adequate to meet the maintenance charges of these estates. The Planning and Development Division is engaged in the dealings with those units including recovery action and correspondence with financing institutions, Government, District Industries Centres etc. Total amount of arrears collected during 1993-94 from the entrepreneurs who had availed rehabilitation/margin money loan by enforcing Revenue Recovery action and other methods was Rs.4.09 lakhs and Rs.10.24 lakhs respectively. The outstanding amount to be collected as on 31-3-1994 is Rs.190.02 lakhs. More than 650 units have been extended financial assistance by the Corporation during the year.

6.39 The Marketing Division renders marketing assistance to registered SSI units in the State. The sales Emporia working under this division at Kannur, Ernakulam, Kottayam and Thiruvananthapuram have recorded a total turnover of Rs.204 lakhs. During the year, this division has assisted a total of 800 SSI Units in marketing of their products and earned a profit of Rs.0.75 lakh. The construction Division of SIDCO has executed civil works amounting to Rs.225 lakhs during 1993-94. This division also takes civil works of other public sector undertakings. The centage charges levied by SIDCO are comparatively less and has been affecting adversely the working of the division. The authorised share capital of the Corporation on 31-3-1994 was Rs.500 lakhs and the paid up share capital Rs.451.59 lakhs. The Corporation has provided employment to a total number of 886 persons under various category. The total turnover of the Corporation amounted to Rs.30.84 crores during 1993-94 and the working ended with a loss of Rs.1.24 crores.

Small Industries Service Institute (SISI)

6.40 The main objective of the Small Industries Service Institute is to provide

Techno-economic, Managerial consultancy services to the existing and prospective small scale industrial units located in Kerala and the Union Territory of Lakshadweep. Promotional and developmental activities are implemented under the overall guidelines issued by the Government of India as per an Action Plan chalked out for each year. The Institute imparts regular training courses in Machine shop practice, electric and gas welding, Footwear and leather goods manufacture and fruits and vegetable preservation. Other activities include implant studies, diagnostic studies for rehabilitation of sick units, modernisation studies, technology upgradation, quality control, energy conservation, specialised training programmes on exports financial management etc.

6.41 During the year 1993-94, the

Institute undertook a total number of 685 job works by providing common facility services and earned a revenue of Rs.1.87 lakhs towards service charges, sale proceeds and consultancy charges. The programme has benefited a total number of 351 units during the period. The Institute also prepared a lot of technical literature/publication for the benefit of existing and prospective entrepreneurs in the State. The various technical divisions of the Institute provided consultancy services in about 4441 cases, out of which 2407 (54%) were dealt with at SISI premises, which included 1485 cases of a purely technical nature. Managerial assistance was provided to 198 cases and assistance to start new industries was provided to 246 prospective entrepreneurs. Details of technical assistance given to existing and prospective entrepreneurs may be seen from Table 6.10.

Table 6.10

Details of consultancy Services offered by SISI during 1993-94

| Sl. No. | Type of Assistance | At Unit premises | At SISI | Through correspondence | Total |
|--------------|------------------------------------|-----------------------|------------------------|------------------------|------------------------|
| 1. | Technical | 686 (601) | 1485 (1925) | 108 (961) | 2279 (3487) |
| 2. | Managerial | 37 (13) | 198 (15) | 36 (1) | 271 (29) |
| 3. | Economic and Statistical | 521 (80) | 379 (480) | 69 (360) | 969 (920) |
| 4. | Assistance to start new Industries | 280 (42) | 246 (832) | 43 (402) | 569 (1276) |
| 5. | Others | 38 (127) | 99 (352) | 216 (370) | 353 (849) |
| Total | | 1562 (863) | 2407 (3604) | 472 (2094) | 4441 (6561) |

Note: Figures in brackets indicate the achievements in 1992-93.

6.42 The Institute also conducted training programmes on welding, machine shop practices, leather foot wear, industrial management, packaging for exports and one month training programme each on synthetic gem cutting and polishing and on Entrepreneurship Development Programme. Three motivation seminars at Kozhikode, Pathanamthitta and Lakshadweep islands were also conducted during the year to

motivate the educated unemployed youth in these areas to take up self employment ventures under the self employment scheme of the Government of India. Under the programme of modernisation, the Institute conducted a comprehensive study of the cluster group of Industries covering Roofing Tile Industries and similar products. Under the programme of Auxiliary Development, the Institute attended plant level

committee meetings held at KAMCO, HMT, FACT and ITI during the year 1993-94. A Buyers sellers meet was also arranged with the active participation of SSI Association and SSI units at Ernakulam.

6.43 Under the programme of Marketing Assistance to SSI units, large number of units were given marketing intelligence information relating to paints and varnishes, builders hardware, cosmetics and toiletries, plastic and rubber items. Further during the year 133 SSI units were provided with tender enquiries received from large and medium scale undertakings. The SISI provided comprehensive information relating to export enquiries to 179 exporting and export worthy units. The Economic Investigation Division of the Institute conducted three Industry potential surveys in respect of three districts of Palakkad, Idukki and Kasaragod during the year. The statistics Division of the Institute is engaged in conducting the Diagnostic study based on 2% sample units in the State. Data entry is almost completed in respect of frame data for all the fourteen districts covering the period 1988-92. The division is also conducting an exercise for substitution of the closed units with functioning units keeping the product and areas of location in tact.

6.44 The SISI also extends assistance to the District Industries Centres, both in the technical and other spheres. Other assistance include selection of beneficiaries under PMRY scheme, training of PMRY beneficiaries, seminars, open house discussions, intensive industry development campaigns etc. Assistance to the weaker sections and women entrepreneurs are also offered by the SISI in the form of preferential treatment for selection to undergo training conducted by the Institute under Entrepreneurship Development Programmes. Special Programme and specific courses were conducted by the Institute for the benefit of weaker sections and women entrepreneurs. An Awareness Programme on energy conservation of roofing tiles and similar products was conducted by the Institute at Thrissur. It also undertook energy audits in respect of three tile units during the last two years and prepared a study report under Modernisation Programme which

covers diversification programmes and replacement of obsolete plant to save energy and other manufacturing costs.

Kerala Industrial and Technical Consultancy Organisation Ltd. (KITCO)

6.45 The Kerala Industrial and Technical Consultancy Organisation (KITCO) aims at the promotion of large, medium and small scale industries through its operations like preparation and appraisal of project reports, rehabilitation and diagnostic studies, monitoring of project implementation, modernisation of industries, engineering and other consultancy services. During the financial year, 1993-94, KITCO had gross earnings of Rs.64.11 lakhs as against Rs.59.21 lakhs in 1992-93, a growth of 8.28 percent. The company earned Rs.62.48 lakhs by way of consultancy fees as against Rs.58.08 lakhs for the previous year, registering a growth rate of 7.56 percent. During the year 1993-94, assignments of KITCO consisted of project reports, feasibility studies, market surveys, special studies, detailed engineering works, turnkey assignments, energy audit and various training programmes. The project consultancy Division completed 68 project reports, one revival report and two market survey reports. KITCO also received a prestigious assignment for the preparation of a Detailed Project Report for setting up the proposed Cochin International Airport (CIA) at Nedumbassery. The Detailed Engineering Division has undertaken 24 assignments during 1993-94, of which ten works were completed and the rest are at various stages of completion. The one lakh litre per day capacity Dairy Project at Villupuram for National Dairy Development Board (NDDB) costing Rs.3 crores has been commissioned. The other important projects completed include commercial complexes at Belgaum for Hindustan Latex Limited, Trivandrum, the interim processing facilities for Oil Palm India Ltd. the various civil works at Rehabilitation Plantations Ltd, (RPL), Punalur, the interior decoration work for Air India offices at Thiruvalla and Trichur etc. KITCO acts as the local consultants and co-ordinating agency for City Industrial Development Corporation (CIDCO), Bombay and the newly formed Gosti Island Development Agency (GIDA). KITCO is

also the co-ordinating agency for the environmental impact study which is being continued.

6.46 In the sphere of special studies too, KITCO has done commendable work. Thirteen special studies were undertaken during the year under review, out of which ten studies have been completed and reports for three studies are in final stages. Industrial potential surveys had been conducted by KITCO in all the districts, surveys in respect of ten districts had been completed and the work in four districts is in progress. In the area of energy audit, KITCO has completed 46 assignments during the year under review. The organisation has now entered into a new field viz., housing and infrastructure development project and has promoted a housing project called (KITCO Gardens) consisting of ten independent villas. Under the Management Consultancy Division, thirteen Entrepreneurship Development Programmes were conducted for various target groups and refresher courses for the officials in the Industries Department. KITCO had also rendered the services of the library and data bank in disseminating information regarding industries, utilisation of IFCI promotional schemes for new entrepreneurs etc. The Directorate of Industries and Commerce, Hindustan Latex Limited, Rehabilitation Plantation Ltd., NDDB, KERALED etc continue to utilise the services of KITCO by entrusting to it various assignments.

Handicrafts Industry

Handicrafts Development Corporation of Kerala Ltd.

6.47 The Handicrafts Development Corporation of Kerala is the nodal agency for promotion and development of handicrafts industry in the State. Procurement and distribution of raw materials and marketing of finished products are the main activities of the Corporation. During 1993-94, the Corporation had procured raw materials such as sandal wood, rose wood etc. and distributed the above items worth Rs.16.93 lakhs to handicrafts artisans. The authorised share capital of the Corporation during the year was Rs.250 lakhs. The total sales turn over of the Corporation for the year 1993-94 was Rs.646.94 lakhs as against

Rs.554.73 lakhs in the previous year, which registered an increase of about 17 percent over the previous year. During the year 1993-94, handicrafts goods valued at Rs.19.91 lakhs was exported by the Corporation.

6.48 The total income of the Corporation during the year 1993-94 was Rs.541.33 lakhs while expenditure during the year amounted to Rs.5267.79 lakhs. The Corporation has earned a profit of Rs.13.54 lakhs during the year 1993-94. It has received financial assistance to the tune of Rs.17 lakhs from Government of Kerala and Rs. 7 lakhs from Government of India for implementation of ongoing projects. The total number of employees on the roll of the Corporation as on 31-3-1994 was 197. The Corporation has conducted a number of exhibition cum sales during the year in important places such as Simla, Coimbatore, Ooty, Madras, Bangalore, Bombay, New Delhi, Goa and Kodaikanal.

Bamboo Industry

6.49 The Kerala State Bamboo Corporation Limited is the sole agency engaged in the promotion and development of bamboo industry in the State. The procurement and distribution of bamboo reeds to traditional workers and collection and marketing of their finished products are the main functions of the Corporation. Major raw materials valued to the tune of Rs.165.65 lakhs was consumed by the Corporation during the year 1993-94. It collected and distributed 23.72 lakh sq.feet of bamboo ply valued at Rs.171.97 lakhs during 1993-94, as against 23.10 lakh sq.feet valued at Rs.143.50 lakhs during the previous year. Mats produced and sold during the year was 755 lakh sq.feet as against 723 lakh sq. feet of the same during the previous year. The total turn over of the Corporation during 1993-94 was Rs.629.68 lakhs registering an increase of 22.33 percent over Rs.514.72 lakhs of the previous year. During the year the Corporation received financial assistance amounting to Rs.35 lakhs (Rs.15 lakhs as share capital and Rs.20 lakhs as loan) from the State Government. The share capital of the Corporation during the year 1993-94 was Rs.335.86 lakhs and it earned a profit of Rs.49 lakhs during the year after providing for income-tax.

Beedi Industry

6.50 The Kerala Dinesh Beedi Workers' Central Co-operative Society play a significant role in promoting the Beedi industry. The central society collects raw materials in bulk and distributes to primary societies. It also provides advance and purchases the finished products from the members and helps in marketing. During the year 1993-94, all the 22 primary beedi workers Co-operative Societies functioning under the central society were working on profit. The total number of members in the primary societies as on 31-3-1994 was 45775. The central and the primary societies together provided employment to 31439 workers as on 31-3-94. The paid up share capital of the primary societies during the year 1993-94 was Rs.72.04 lakhs. An amount of Rs.144.35 lakhs had been disbursed towards salary during 1993-94 by the primary societies, while it was Rs.26.89 lakhs for the central society. Under the Welfare-cum-pension scheme an amount of Rs.3.10 lakhs had been disbursed for 600 beneficiaries during 1993-94 towards assistance for the family of the deceased beedi workers and Rs.2.49 lakhs lumpsum retirement benefit for 83 workers.

6.51 The paid up share capital of the central society amounted to Rs.25.75 lakhs which consisted of Rs.15.65 lakhs contributed by primary societies and Rs.20.10 lakhs given by the State Government. A total number of 729.32 crore beedies valued at Rs.70.12 crores were purchased by the central society from the member societies during 1993-94 as against 669.67 crore beedies valued at Rs.62.15 crores of the previous year. Major raw materials valued to the tune of Rs.13.84 crores were purchased by the Central society during 1993-94. The gross income earned by the Dinesh Beedi Society amounted to Rs.87.78 crores during 1993-94. The sales turnover of the society during the year amounted to Rs.71.44 crores and had earned a net profit of Rs.48.21 lakhs during the year 1993-94.

Khadi and Village Industries

6.52 Promotional activities for extending financial and technical assistance to artisans engaged in Khadi and Village Industries through

co-operative societies, charitable institutions and individuals were continued by the Kerala Khadi and Village Industries Board during 1993-94 also. The funds required for this purpose was mainly received as grant and loan from Khadi and Village Industries Commission. During the year 1993-94, the Board has received an amount of Rs.610 lakhs under plan and Rs.50 lakhs for rebate from the State Government. The establishment expenditure of the Board was met by the State Government as grant under Non-Plan. Further, the State Government have sanctioned Rs.69 lakhs to Khadi Workers' Welfare Fund Board towards Government share.

6.53 As on 31-3-1994 there were 384 Khadi production centres including polyvastra units and 13 village industries units under the direct control of the Board. The Board has financed 1992 co-operative societies, 1904 charitable institutions and 12195 individuals to run various Khadi and village industries units during the year under review. The Federation for rubber was registered for the development of rubber based industries during 1993-94 in addition to the existing federations.

6.54 The Board has also undertaken programmes for the betterment of the economically weaker sections especially those belonging to Scheduled Castes and Scheduled Tribes. During the year under review, the Board has disbursed a sum of Rs.40 lakhs under Special Component Plan and Rs.20 lakhs under Tribal Sub Plan as grant to the co-operative societies and institutions exclusively registered for Scheduled Castes and Scheduled Tribes. The physical achievements made under SCP was for 1104 families against the target of 800 families and under TSP 414 families against the target of 400 families. During the year 1993-94, the Board has disbursed a sum of Rs.506.44 lakhs as loan and grant to the beneficiaries. In addition to this, applications for Rs.659.62 lakhs was recommended to various banks under interest subsidy scheme of the Board and Khadi and Village Industries Commission. The Board has sanctioned 1049 units under various village industries and could create 16000 employment opportunities during 1993-94. The production and sales of the Board in 1993-94 amounted Rs.97.28 crores and Rs.110.78 crores respectively. Employment

as on 31-3-1994 was 1.76 lakh persons. The sales outlets of the Board consists of 14 Khadi Grama Soubhagyas, 106 Khadi Soubhagyas, 34 G S. Depots and 30 Gramasilpas as on 31-3-1994. Particulars of programmes formulated by the Board and its performance during the year 1993-94 are furnished in Appendix 6.20.

Kerala State Palmyrah Products Development and Workers' Welfare Corporation Limited (KELPALM)

6.55. The Kerala State Palmyrah Products Development and Workers' Welfare Corporation Limited (KELPALM) was registered in 1985. The main objectives of the Corporation were the development of palmyrah products and improve the welfare of the workers engaged in the palmyrah industry in the State. The Corporation has facility centres at Palakkad, Alathur and Parasala for processing fibre. In addition to this, it has started two more facility centres during 1993-94. As part of its programmes the Corporation has imparted training to 100 women artisans in palmyrah fibre processing during the period under review. The Corporation has submitted a welfare scheme to palmyrah artisans in line with the welfare scheme to fishermen and is under active consideration of the Government. During 1993-94, the Corporation has exported processed palmyrah fibre valued at Rs.7.75 lakhs to U.S.A. Total income of the Corporation has shown a notable increase during 1993-94 to Rs.34.56 lakhs in 1993-94 from Rs.23.34 lakhs of 1992-93. The Corporation has produced palmyrah products worth of Rs.20.15 lakhs during 1993-94. The total sales turnover of the Corporation during 1993-94 was Rs 22.55 lakhs as compared to Rs.8.43 lakhs during 1992-93. Various projects of expansion and modernisation of the Corporation are under different stages of implementation.

Sericulture

6.56. Considering the immense potential of sericulture in providing employment opportunities in the rural and semi-rural areas of Kerala, the Government decided to develop sericulture in a big way in the State during the Eighth Plan period. In 1989 Government declared sericulture as a Village Industry and since then the scheme

was being implemented by Kerala Khadi and Village Industries Board. But in October, 1994 the Government ordered to constitute Kerala State Sericulture Co-operative Federation Ltd. exclusively to undertake the sericulture development programmes in the State and the Federation came into existence on 16th December 1994.

6.57. The target was to cultivate mulberry in 50,000 acres during the Eighth Plan period. But it was found that while mulberry cultivation was expanding, there was no corresponding increase in the production of cocoons in Kerala. The low production rate was largely due to the inadequate infrastructure for marketing and processing. Hence a cautious strategy was evolved, where stress was given to increase the productivity of the established mulberry gardens, than to expand mulberry acreage. Priority is given to strengthen the cocoon marketing facilities, silk reeling, silk processing and even silk weaving, so that the industry can be well established in Kerala and thereby cocoon prices also can be improved.

6.58. Mulberry cultivation and silkworm rearing are undertaken in all the districts in Kerala. More than 5000 acres are under mulberry cultivation in about 6100 holdings in different parts of the State. Two silk reeling centres - one at Pattanakkad in Alappuzha and the other at Uduma in Kasaragod are operating under government sector, and 12 other silk reeling units of varying capacity are functioning in the State under private/voluntary/Co-operative sector. Two sericulture complexes - one at Elamadu in Kollam and the other at Uduma are nearing completion. Cocoon collection centres are functioning at all the fourteen district headquarters. The two government silk reeling centres are also functioning as cocoon markets.

6.59. Progress of sericulture development programmes in the state during 1993-94 and 1994-95 (3 months) are given in table - 6.11.

Coir Industry

6.60. Coir industry occupies the foremost place among traditional industries in Kerala which provides direct employment to 3.83 lakh workers mostly in rural areas and exports nearly

Table 6.11

Progress of Sericulture Development Programmes of the State

| Sl. No. | Items | 1993-94 (As on 30-6-94) | 1994-95 | Remarks |
|---------|---|----------------------------|---------|--|
| 1. | Mulberry cultivation in acres (Additional area) | 743 | 87.5 | |
| 2. | Number of farmers | 531 | 115 | |
| 3. | Number of Rearing Unit | 287 | — | |
| 4. | Production of Cocoon (MT) | 100.86 | 11.7 | |
| 5. | Silk worm Seed Production Centres (No.) | | | |
| | a) State Sector | NIL | NIL | |
| | b) Private Sector | 1 | 1 | Voluntary |
| | c) Co-op. Sector | Nil | Nil | |
| | d) Central Sector | 1 | 1 | C.S.B. |
| | Total (5) | 2 | 2 | |
| 6. | Cocoon purchase Centre | | | |
| | a) State Sector | 14 | 14 | |
| | b) Co-op. Sector | — | — | |
| | c) Private Sector | — | — | |
| | Total (6) | 14 | 14 | |
| 7. | Silk Reeling units | | | |
| | a) State Sector | 2 | 2 | |
| | b) Co-op. Sector | — | 1 | |
| | c) Private Sector | 12 | 11 | |
| | Total (7) | 14 | 14 | |
| 8. | Demonstration-cum-Training Centres. | | | |
| | a) State Sector | -- | -- | -- |
| | b) Central Sector | 1 | 1 | |
| | Total (8) | 1 | 1 | |
| 9. | Production of raw silk yarn | 2000 Kg. | 300 Kg. | Most of the cocoon sold outside States not available |
| 10. | Sericulture co-operative Societies organised (Nos.)(Additional Societies) | Nil | Nil | |

30% of its production. It has a large net work of coir co-operative societies in the State. As on 31.3.1994, there were a total number of 858 coir co-operative societies in the State. Out of this 472 are working, 104 are new societies which have not started working, 77 are

dormant societies and 205 are those under liquidation.

6.61. In order to modernise the coir industry a new scheme viz., Integrated Coir Development Project has been formulated on the

basis of the recommendations of the Special Task Force on coir industry. The total cost of the Project is estimated as Rs.4424 lakhs and the Project is implemented with the financial support of Government of India and N.C.D.C. During the year under report the N.C.D.C. has sanctioned financial assistance to 31 defibering mills and 12 spinning units of which one defibering mill at Kannur District has already been established and started production. The setting up of other units are in progress. A total amount of Rs.354.74 lakhs was disbursed to 31 defibering mills and 12 spinning units towards 25% state and 20% Central Subsidy under the Integrated Coir Development Project.

6.62. During the year 1993-94 this industry could export 37020 tonnes of coir and coir products worth Rs.12685.26 lakhs which shows about 15% increase in the quantity of exports and 32% increase in its value over the previous year.

6.63. The objective of the formation of the Kerala State Co-operative Coir Marketing Federation Ltd. (COIRFED) is to procure and sell the produce of the member societies thereby giving regular employment to the workers at reasonable wages throughout the year. The marketing infrastructure consists of the four regional offices at Kollam, Alappuzha, Kochi and Kozhikode and 83 showrooms spread all over India. Coirfed has started a defibering unit at Thavam, Rubber Backing Unit at Alappuzha and a Rubberised Coir Products Manufacturing Plant at Alappuzha. Coirfed is also the implementing agency of the scheme viz. Integrated Coir Development Project designed to modernise the coir industry. Procurement and sales turnover of COIRFED during 1993-94 have shown marked improvement compared to the previous year. During 1993-94 the Federation procured 7302.80 metric tonnes of coir and coir products valued at Rs.1194.17 lakhs and sold 7178 MT worth Rs.15.59 crores. The total sales turnover of the Federation during the year 1993-94 was Rs.15.59 crores registering about 50% increase over the previous year. During the year the Federation made a profit of Rs.59.31 lakhs.

6.64. The Kerala State Coir Corporation Ltd. was set up in 1969 with the specific objective of uplifting the coir industry in the

State. The main objective of the company was to act as an export house for coir and coir products and step up international and domestic sales by maintaining quality standards. The Model Coir Factory at Alappuzha, the Modern Dye house and the Beypore Division of the company are the important production units under the Kerala State Coir Corporation. The overall performance of the company for the year 1993-94 has shown significant improvement when compared to the previous year. The sales turnover has increased to Rs.226.97 lakhs as against Rs.190.46 lakhs in the previous year. As per the provisional working results, the net loss for the year 1993-94 has been reduced to Rs.19.45 lakhs as against Rs.28.26 lakhs in the previous year. With the collapse of the USSR, the main export market of our coir goods, the company's exports have reduced to almost nil during the years 1991-92 and 1992-93. As a result of an aggressive export development programme launched by the company, it could re-enter in the field of export worth Rs.13 lakhs in 1993-94 and Rs.29 lakhs in the first half of the current year 1994-95.

6.65. Eventhough Foam Mattings (India) Ltd. was incurring losses since its inception in 1980 till 1991, performance of the company since its reopening in April 1990 is commendable. The sales turnover, capacity utilisation and export performance achieved during 1993-94 were the highest ever by the Company since its inception in 1980. During 1992-93, the Company earned a net profit of Rs.19.68 lakhs for the first time. The company improved its overall performance during 1993-94 and earned a net profit of Rs.52.25 lakhs. It achieved a sales turnover of Rs.354.88 lakhs during 1993-94 compared to Rs.202 lakhs of the previous year. The company also improved its capacity utilisation figures. The Matting Plant achieved capacity utilisation of 25.78% against the previous best of 22.18%. Latex Backing Plant achieved a capacity utilisation of 59.38% against the previous best of 41.91%. The company improved its export performance by exporting coir and sisal mattings worth Rs.55 lakhs to European Countries during 1993-94.

6.66. Details regarding the coir co-operative societies in Kerala, export of coir and coir

products from India, activities of coir co-operative societies are given in Appendix 6.26 to 6.28

Handloom Industry

6.67. The total number of Handlooms in the State increased to 57345 by the end of March 1994 from 55093 in March 1993 registering an increase of 4.09 per cent over the previous year. Of these, 45709 looms were in the co-operative sector constituting about 83 per cent of the total handlooms in Kerala. The number of looms in the co-operative sector shows an increase of 5.15 per cent over the previous year's level of 43472. The procurement and marketing of Handloom fabric in the State is being undertaken by the two State level organisations viz., Hantex and Hanveev. The production of Handloom cloth in the co-operative fold increased to 51.37 million meters as on March 1994 from 48.60 million metres in March 1993 registering an increase of 2.77 million metre during the year under review. The value of production also increased to 146.40 crores during the year under review from 97.20 crores in March 1993 and the productivity of Handloom cloth in the Co-operative sector also shows improvement over the previous year. The total number of Co-operative Societies under the Handloom Sector increased to 610 consisting of 130 factory type and 480 cottage type societies in March 1994 from 605 in the previous year. Of the 610 societies, 479 (115 factory type and 364 cottager type) were working societies, 50 (13 factory type societies and 37 cottage type), were dormant societies and the remaining 81 (2 factory type and 79 cottage type) were under liquidation.

6.68. The total number of handlooms under the Corporate sector increased to 6252 as on March 1994 from 6236 of the previous year. The production of Handloom cloth also increased from 0.88 million metres in March 1993 to 1.22 million metres by the end of March 1994. The productivity of handloom cloth under the corpo-

rate sector increased by 1 metre/loom/annum during 1993-94 with 534 metre/loom/annum from the previous year's level of 533 metre/loom/annum. The number of looms in the unorganised private sector also increased from 5385 in March 1993 to 5400 in March 1994 showing an increase of 15 looms over the previous year. The value of production in this sector also increased to Rs.2.75 crores during 1993-94 from 2.09 crores in the previous year. The productivity in this sector per loom showed a slight increase over the previous year from 1800 metres/loom/annum to 1805 metres per loom per annum in March 1994.

6.69. The total production of Handloom cloth in the State thus increased from 59.17 million metres in 1992-93 to 62.30 million metres during the year under review. The value of production of handloom cloth in the State also increased from Rs.128.12 crores in March 1993 to 152.63 crores by the end of March 1994. The total productivity of handloom cloth during the year under review marked a remarkable change from 1074 metres/loom/annum in 1992-93 to 1154 metres/loom/annum in 1993-94.

6.70. An amount of Rs.549.50 lakhs spent towards the scheme for giving rebate for the sale of handloom cloth during the year 1993-94 as against Rs.499.65 lakhs in the previous year. The unsold stock of handloom cloth worth Rs.24.45 crores was accumulated in this sector by the end of March 1994 as against a stock valued at Rs.17.55 crores in March 1993. The details regarding production and productivity in the Handloom sector is given in appendix 6.29.

6.71. The Kerala State Handloom Weavers Apex Co-operative Society (HANTEX) was established in 1961 with the objective of developing Handloom Industry of the Co-operative Sector on commercial lines. It has 414 primary societies in the State as members. Total paid up share capital of Hantex is Rs.620.74 lakhs as on March 1994. It is the

main Agency for the marketing of finished materials of its 414 member societies through its 245 sales depots at different levels. The total sales turnover of the society during the year under review was Rs.1405 lakhs showing an increase of Rs.281 lakhs compared to the previous year. The working results of Handloom Apex Society (Hantex) is given in appendix 6.30.

6.72. The Kerala State Handloom Development Corporation (Hanveev), an agency for the development of handlooms outside the Co-operative sector had 31 clusters covering 1965 looms besides 24 weavers co-operative societies during the year under review. The Corporation has a processing house at Chirakkal and a dye house at Kalliassery and most of the processing and printing work of the Corporation are done at Chirakkal and dyeing of yarn required for the clusters at Kalliassery. The total paid up share capital of the Corporation as on 31.3.1994 was Rs.458.03 lakhs as against Rs.428.03 lakhs in March 1993. The total number of sales outlets was 63 as on March 1994. Total value of items produced by this Corporation during 1993-94 was Rs.347 lakhs where as its total sales income during this period stood at Rs.516.79 lakhs as against Rs.344.95 lakhs during 1992-93. Total expenditure for raw materials during the year under review was Rs.397.58 lakhs and expenditure on personnel payments was Rs.102.36 lakhs. The net loss of the Corporation during 1993-94 stood at Rs.4.74 lakhs and the accumulated loss at the end of the March 1994 amounted to Rs.332.70 lakhs. The reason for the loss was increase in cost of materials increase in interest and financial charges on overdraft, and increase in overhead expenditure.

6.73. During the period under review, the Corporation was entrusted with the implementation of certain projects under the welfare schemes for the betterment of the handloom

weavers in different regions. The major schemes among them are (1) the project package scheme, (2) Health package scheme and (3) Integrated Handloom Village Development scheme. Recently, sanction was accorded to extend the project package scheme in the districts Kozhikode, Kottayam, Kollam, Ernakulam and Thrissur by covering 300 weavers in each of these districts during the year under review. The Integrated Handloom Village Development scheme in Tanur village of Malappuram district was also implemented during the year 1993-94 for the betterment of the Handloom weavers with an estimated cost of Rs.24.40 lakhs.

6.74. The details on the performance of the Corporation during 1993-94 are furnished in Appendix 6.31 and the production and productivity under powerloom Industry are given in Appendix 6.32.

Cashew Industry

6.75. During 1993-94 a total quantity of 68968 M.T. of Cashew Kernels valued at Rs.1041.54 crores was exported as compared to 53436 M.T. valued at Rs.745.49 crores during 1992-93, registering an increase of 29.07 per cent in quantity and 39.71 per cent in value. By exporting 3482 MT of cashew nut shell liquid, Country could earn foreign exchange equal to Rs.2.80 crores during 1993-94. Thus the total foreign exchange earned by the cashew Industry during the year 1993-94 was Rs.1044.34 crores constituting 1.5 per cent of the total export earnings of the country. The additional foreign exchange earned through the export of cashew kernels and cashew shell liquid during 1993-94 was Rs.295 crores showing an increase of 39.7% over the previous year.

6.76. The details regarding foreign exchange earnings of India from Cashew Industry and the Import of Raw cashewnuts into India are given in Appendix 6.33 and 6.34.

6.77. The Kerala State Cashew Development Corporation came into being for the purpose of running the closed down cashew factories, on behalf of the State Government during the year 1969-70. The installed capacities of the Corporation during the year under review was 42000 M.T. In respect of cashew Kernels, 6000 M.T. in respect of cashew shall liquid and 900 M.T. in respect of Tannin. The total production of cashew kernels of the Corporation during 1993-94 was 5500 M.T. valued at Rs.1303.63 lakhs. It marked a decrease in production compared to the previous year's level of 10229 M.T. of cashew kernels valued at Rs.139.29 crores. The Corporation could not utilise its full capacity during this period due to lack of sufficient quantity of rawnuts. There were 49343 employees in the roll of the Corporation on 31st March 1994.

6.78. The total sales turnover of the Corporation increased to Rs.3023.46 lakhs during the year under review from Rs.1193.19 lakhs in the previous year. The Corporation has imported 5500 M.T. of cashew nuts valued at Rs.1393.63 lakhs during the year 1993-94. The Corporation incurred a net loss of Rs.10.68 crores. The loss of the Corporation during the year under review was due to the non availability of rawnuts, increase in the cost of production and fluctuations in the price of cashew kernels in the international market. As on 31st March 1994, the accumulated loss of the corporation increased to Rs.123.18 crores.

6.79. With the main objectives of organising cashew industries in the state on a commercial footing, rendering assistance to its affiliated societies in the procurement and distribution of rawnuts and making available funds for processing and marketing of kernels and other items produced in the factories of the affiliated societies, the Kerala State Cashew Worker's Industrial Co-operative Society (CAPEX) was registered in the year 1984 with

an authorised share capital of Rs.181.59 lakhs. Total quantity of rawnuts procured during the year under review by the society was 7031.32 tonnes valued at Rs.1945.95 lakhs as against 5198.82 tonnes valued at Rs.1311.93 lakhs in 1992-93. Of which 2168 tonnes of cashew kernels valued at Rs.3221.54 lakhs was sold during the year under review. The CAPEX provided employment to 50 persons during 1993-94. The details of the working results of the Cashew Workers Apex Industrial Co-operative Society (CAPEX) and the districtwise quantity of rawnuts procured in 1994 cashew season are given in Appendix tables 6.35 and 6.36.

Mining

6.80. The State Department of Mining and Geology, Kerala Mineral Exploration and Development Project (KMEDP) and the Kerala State Mineral Development Corporation, were the State level agencies, engaged in the activities connected with exploration and exploitation of the mineral resources of the State. The developmental activities of the Mining and Geology Department in the mineral sector include 73 mining leases in respect of major minerals, 61 quarrying leases for dimension stones, 45 for building stones and 129 Dealers Licences in minor minerals during this period. Total revenue collected during 1993-94 by the Department on minerals was Rs.452.13 lakhs. Revenue collection on minerals from 1985-86 to 1993-94 are given in Appendix - 6.31

6.81. The Kerala Mineral Exploration and Development Project conducted investigation for gemstones at Koduvazhannur in Thiruvananthapuram district during the period under review which revealed the presence of garnet and Korerupine in that area. The Project also carried out detailed investigation for dimension and decorative stones in (dukki, Kozhikkode, Kollam and Thiruvananthapuram districts during the field seasons. The survey has

enabled the project to identify a few occurrences of dimensions and decorative stones in Government Poramboke lands in the above districts. The project has established adequate reserves of gold bearing gravels in Chaliyarpuzha and Punnapuzha in Malappuram district. The technical and financial assistance for commercial exploitation of these reserves will be made available by the BRGM, France through Government of India. A protocol was signed for this purpose during the period of review.

6.82. Exploratory drilling and mining at Maruda in Nilambur Valley for gold was completed during the period and the results were encouraging. Investigation taken up for probing the existence of lignite and assessing the China Clay deposits at Palayi in Nileswaram area of Kasaragod district was completed during 1993-94. Of the 16 boreholes drilled over an area of one sq.km, 14 of them intersected lignite seams and the cumulative thickness of the seams measured was 4.20 Mts. Besides, five boreholes had also indicated white Kaolinitic clay zone of 8.80 Mts. thickness underlying the sedimentary sequence in the area.

6.83. In the previous field season the project had carried out a detailed investigation for lignite and clay which included drilling, sampling and mapping at Madai area in Kannur district. During the period under review,

topographic map of the area was prepared. Analytical studies conducted on core samples of lignite had shown encouraging results with indications of calorific value ranging from 1100 to 4500 K.Cal/Kg. The investigation for kaolinitic clay taken up at Methonnakkal-Pallippuram area of Thiruvananthapuram district was continued during the period under review. The project had conducted a reconnaissance to assess the silica sand deposits of Kazhakuttam-menamkulam village of Thiruvananthapuram taluk and district and at Pallippuram village of Cherthala taluk of Alappuzha district in order to promote silica sand based industries in the State.

6.84. The Kerala State Mineral Development Corporation Ltd., has formulated a project for producing 4200 cum of rough dimension blocks and 2500 cum of processed granite. It could obtain mining lease for 28.20 acres for five years in Vazhichal Village in Thiruvananthapuram district. Lignite deposits of about 5 million tonnes have been located in Madayi area in Kannur district. The Corporation has made arrangements to exploit the lignite deposit with the association of Gujarat Mineral Development Corporation Limited.

6.85. The details of production and sale of mineral resources in the State during 1992-93 and 1993-94 are furnished in Appendix tables 6.32 and 6.33.

CHAPTER - 7

TRANSPORT AND COMMUNICATIONS

Transport and Communications sector registered reasonable progress during 1993-94. Total road length increased from 139,042 kms in 1992-93 to 141010 kms in 1993-94. This shows that the total road length increased by 1.4 per cent. Road length maintained by Public Works Department increased by 988 kms and panchayats increased by 2389 kms. Total number of motor vehicles in Kerala increased by 13.6 per cent in 1993-94 as against 10.3 per cent in 1992-93. Passenger buses and goods vehicles increased significantly during 1993-94, by 19.8 per cent and 14.4 per cent respectively. Two wheelers registered 16 per cent increase, whereas the increase in three wheelers was 10.3 per cent. Thus by 1993-94 end, there were a total of 8.88 lakh vehicles in Kerala. Buses owned by KSRTC was 3511 in 1993-94. During 1993-94 KSRTC replaced 413 buses. Gross revenue earnings of KSRTC increased by 8.8 per cent and expenditure by 7.9 per cent. Operating loss of KSRTC in 1993-94 was Rs.28.27 crores as against Rs.28.26 crore in 1992-93.

7.2. Railway route length remained at 1198 kms in 1993-94. Four train services were newly started from Kerala in 1993-94. Goods traffic and passenger traffic through Thiruvananthapuram Division decreased by 10.7 per cent and by one per cent respectively during 1993-94. But total revenue receipts during 1993-94 increased by 8.9 per cent. Receipts from passenger traffic increased by 12.2 per cent and from goods traffic by 6.1 per cent.

7.3. The three Regional Passport Offices together in Kerala issued 5.98 lakh passports in 1993-94. Applications received were only 4.41 lakhs. The overall port activities in Kerala declined during 1993-94. Cargo traffic through major, intermediate and minor ports in Kerala decreased by 4.7 per cent in 1993-94. While cargo handled through Kochi port decreased by 4.5 per cent cargo handled through intermediate ports decreased by 22.5 per cent. But the cargo handled

through minor ports increased marginally during 1993-94. Number of vessels called at major and intermediate and minor ports, also decreased by 1.4 per cent during 1993-94. While the decrease was 1.8 per cent in Kochi port, it was 3.1 per cent in intermediate ports/Vessels called at minor ports increased by 9 per cent. During 1993-94, 1733 harbour crafts were registered in the intermediate and minor ports. Intermediate and minor ports collected a revenue of Rs.79 lakhs in 1993-94.

7.4. The three inland water transport agencies together owned 106 passenger boats in 1993-94. Out of this 71 boats were being operated. The fleet utilised increased to 67 per cent in 1993-94 from 58 per cent in 1992-93. Three agencies together carried 302 lakhs passengers in 1993-94 which shows an increase of 14 per cent over 1992-93. Volume of cargo carried by these agencies decreased by 3.5 per cent. Revenue receipts increased by 16 per cent and revenue expenditure by 8.6 per cent. SWTD and KSRTC incurred loss and KSINC made profit during 1993-94. Total loss of these three agencies together decreased from Rs.227 lakhs in 1992-93 to Rs.212 lakhs in 1993-94.

7.5. Number of post offices newly opened under Kerala Circle during 1993-94 were 31. As a result by 1993-94 end there were 5040 post offices in Kerala Circle. Number of speed post centres were 6. Area served by one post office is 7.73 sq.kms and 5774 people by 1993-94 in Kerala.

7.6. Twenty seven telephone exchanges were started in 1993-94 in Kerala Circle as against 13 in 1992-93. Consequently total equipped capacity was increased to 5.24 lakhs in 1993-94. Total working connections increased from 377,805 in 1992-93 to 436,741 in 1993-94. Applicants in the wait list for telephone connection increased from 293,043 in 1992-93 to 314,442 in 1993-94. Number of public call of-

ices increased by 2,374 in 1993-94 from 8,229 in 1992-93. The overall progress made in the

transport and communication sector from 1975 to 1994 is given in Table 7.1.

Table - 7.1

Growth of Transport & Communications in Kerala

| Item | Unit | 1975 | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 |
|---------------------------------|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1. Road length PWD | Kms | 14870 | 17408 | 19107 | 19836 | 20283 | 20414 | 20663 | 21651 |
| 2. Road length (PWD) per | " | 0.38 | 0.45 | 0.49 | 0.51 | 0.52 | 0.53 | 0.53 | 0.56 |
| 3. Road length (Panchayats) | " | 54812 | 66158 | 81515 | 96951 | 99022 | 101067 | 103888 | 106277 |
| 4. Motor Vehicles | Nos | 119720 | 174704 | 319259 | 581054 | 647742 | 708172 | 781398 | 887672 |
| 5. Motor Vehicles per 100 Sq km | " | 308 | 450 | 821 | 1495 | 1667 | 1822 | 2011 | 2276 |
| 6. Passenger buses | " | 7828 | 8705 | 12910 | 20290 | 21454 | 22833 | 25345 | 30370 |
| 7. Goods Vehicles | " | 15875 | 211215 | 40879 | 61106 | 66190 | 71089 | 77336 | 88455 |
| 8. Buses under KSRTC | " | 2212 | 2935 | 3239 | 3313 | 3413 | 3534 | 3456 | 3511 |
| 9. Railway Route Length | Kms. | 896 | 916 | 941 | 998 | 998 | 1055 | 1198 | 1198 |
| 10. Post Offices | Nos. | 4024 | 4512 | 4751 | 4861 | 4911 | 4978 | 5009 | 5040 |
| 11. Telephone Exchanges | " | 286 | 441 | 561 | 636 | 649 | 675 | 688 | 715 |
| 12. Total Equipped Capacity | " | 70410 | 104595 | 144462 | 246190 | 281607 | 344536 | 428212 | 524006 |
| 13. Public Call Offices | " | 2352 | 2292 | 2766 | 3794 | 4958 | 6246 | 8229 | 10603 |

Roads

7.7 Total road length in Kerala was 141010 Kms as on 1-4-94 as against 139042 kms as on 31-3-1993. Thus during 1993-94, the road length in Kerala increased by 1968kms (1.4%). Out of the total road length, 21651 kms (15.4%) is maintained by PWD* (Roads & Bridges). Roads maintained by panchayats were 106277 Kms (75.4%). Roads maintained by panchayats were 106277 Kms (75.4%). Roads maintained by

Municipalities and corporations were 7115 kms (4.9%). Out of the total roads maintained by Municipalities and Corporations nearly 1854 kms are in three corporation areas namely; Thiruvananthapuram (331 kms) Kochi (1099 kms) and Kozhikode (434 kms). The road length maintained by public works department increased by 4.8 per cent and roads maintained by panchayats increased by 2.3 per cent during 1993-94. Length of roads maintained by different departments are given in Table 7.2.

Table 7.2

Length of roads maintained by different departments/agencies in Kerala

| Sl. No. | Department/Agencies | Road length (Kms) | |
|---------|---|-------------------|------------------|
| | | As on 31-3-93 | As on 31-3-94 |
| 1. | Public Works Department (National Highways) | 1011 (0.7) | 1011 (0.7) |
| 2. | Public Works Department (Roads & Bridges) | 20663 (14.9) | 21651 (15.4) |
| 3. | Panchayats # | 103888 (74.7) | 106277 (75.4) |
| 4. | Municipalities & Corporations* | 8672 (6.2) | 7115 (5.0) |
| 5. | Forests | 3027 (2.2) | 3154 (2.2) |
| 6. | Others | 1781 (1.3) | 1802 (1.3) |
| | Total | 139042 (100) | 141010 (100) |

Note: Figures in bracket indicate percentage to total

#. provisional

* during 1993-94 six municipalities were degraded to Panchayats.

7.8 Road length of public works department increased by 988 kms in 1993-94, from 20663 kms in 1992-93. Out of the total PWD road length of 21651kms in 1993-94, 2186 kms (10%) were state highways, 5959 kms (27.5%) major district roads, 10070 kms (46.5%) other district roads and 3436 kms (16%) village roads.

Nearly 87 percent of the total PWD roads in the state were black topped. But in the case of village roads maintained by PWD, only nearly 44 per cent is blacktopped. Table 7.3 shows the category wise and type wise length of PWD roads in Kerala during 1993-94.

Table - 7.3
Category-wise and type-wise length of PWD roads as on 1-4-1994.

| Category | Cement | Black topped | Water Bound mecadam | Others | Total |
|-------------------------|--------|--------------|---------------------|---------|-------|
| 1. State Highways | 9.00 | 2161 | 13 | 3.00 | 2186 |
| 2. Major District Roads | 3 | 5872 | 67 | 17 | 5959 |
| 3. Other District Roads | -- | 9487 | 83 | 500 | 10070 |
| 4. Village Roads | -- | 1498 | 203 | 1735 00 | 3436 |
| Total | 12 | 19019 | 365 | 2255 | 21651 |

7.9 During 1993-94 expenditure on road works was Rs.7054 lakhs. Out of it Rs.843 lakhs (12%) were on state highways and Rs.1300 lakhs (18%) were on major district roads. Amount spent on village roads was Rs.30.37 crore (43%). In respect of state high ways 16 road works and 19 bridge and culvert works were completed in 1993-94. On the major district roads, 26 road works and 25 bridge and culvert works were completed. Number of road and bridge works

on other district roads were 46 and 24 respectively during 1993-94. Road works on village roads made significant progress in 1993-94. 298 road works and 65 bridge and culverts were completed in 1993-94 on the village roads sector. Under special component plan in scheduled caste settlements, 17 road works and under Tribal Sub Plan 5 road works were completed in 1993-94. Five road works in Corporation areas were also completed in 1993-94.

Table - 7.4
Division-wise and category-wise length of PWD roads in Kerala as on 1-4-94

| Division | State Highways District Roads | Major District Roads | Other District Roads | Village Roads | Total |
|-----------------------|-------------------------------|----------------------|----------------------|---------------|-------|
| 1. Thiruvananthapuram | 81 | 295 | 1357 | 98 | 1831 |
| 2. Kollam | 168 | 447 | 1071 | 11 | 1697 |
| 3. Alappuzha | 112 | 287 | 514 | 128 | 1041 |
| 4. Pathanamthitta | 174 | 459 | 759 | 112 | 1504 |
| 5. Kottayam | 288 | 702 | 968 | 40 | 1998 |
| 6. Idukki | 330 | 420 | 392 | 427 | 1569 |
| 7. Ernakulam | 54 | 290 | 464 | -- | 808 |
| 8. Muvattupuzha | 93 | 517 | 535 | 32 | 1177 |
| 9. Thrissur | 208 | 518 | 803 | 108 | 1637 |
| 10. Palakkad | 143 | 749 | 537 | 366 | 1795 |
| 11. Manjeri | 184 | 388 | 955 | 311 | 1837 |
| 12. Kozhikode | 116 | 250 | 245 | 726 | 1337 |
| 13. Wayanadu | 91 | 277 | 148 | 169 | 685 |
| 14. Kannur | 102 | 225 | 946 | 419 | 1692 |
| 15. Vadakara | 12 | 50 | -- | 8 | |
| 16. Kasaragod | 29 | 84 | 376 | 483 | 972 |
| Total | 2186 | 5959 | 10070 | 3436 | 21651 |

Source: Public Works Department

Road Transport

7.10 Total number of vehicles increased by 1.06 lakhs in 1993-94. Thus by 1993-94 end there were 8.88 lakh motor vehicles in Kerala as against 7.81 lakhs in 1992-93. Out of the total vehicles 94059 vehicles were newly registered during 1993-94. Out of the total vehicles in the State 48 per cent were two wheelers, 25.5 per cent cars and station wagons, 10 per cent goods vehicles and 3 per cent were passenger buses. Although the number of motor vehicles in all categories increased during 1993-94, increase was

the highest for buses (19.8%) followed by two wheelers (16%) and goods vehicles (14.4%). Number of cars and three wheelers increased by 10.3 per cent each. Table 7.5 gives major category-wise vehicles in 1993-94 and its increase over 1992-93. Out of the total motor vehicles newly added during 1993-94, nearly 56 per cent were scooters and 20 per cent were cars and station wagons. Category-wise increase in the motor vehicles shows that personal modes of transport, particularly two wheelers are increasing rapidly in the State.

Table - 7.5

Increase in the number of motor vehicles in Kerala

| Sl. No. | Type of vehicle | Year | | Addition during 1993-94 | Increase (%) |
|---------|------------------------------|------------------|------------------|-------------------------|--------------|
| | | 1992-93 | 1993-94 | | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Goods vehicles | 77336 (10) | 88455 (10) | 11119 (10.5) | 14.4 |
| 2. | Buses | 25345 (3.2) | 30370 (3.4) | 5025 (4.7) | 19.8 |
| 3. | Cars & Station Wagons | 205564 (16.3) | 226806 (25.5) | 21242 (20) | 10.3 |
| 4. | Three wheelers | 83773 (10.7) | 92376 (10.4) | 8603 (8.1) | 10.3 |
| 5. | Two wheelers | 369600 (47.3) | 428704 (48.3) | 59104 (55.6) | 16 |
| 5. | Tractors, tillers and others | 19780 (2.5) | 20961 (2.4) | 1181 (1.1) | 6.0 |
| Total | | 781398 (100) | 887672 (100) | 106274 | 13.6 |

Note: Figures in bracket indicate percentage to total

7.11 In terms of increase in the number of vehicles in 1993-94 in the districts the highest increase was in Kottayam (33.5%) followed by Malappuram (20.2%) and Palakkad (18.7%). The lowest increase was in Kollam. Table 7.6 shows the district-wise increase in motor vehicles in 1993-94 over 1992-93 and the share of each district. Out of the total vehicles in the state in 1993-94, 15.8 per cent were in Ernakulam, and 14.9 per cent were in Thiruvananthapuram. Nearly one third of State's total vehicles are thus in these two districts. Lowest shares of vehicles were in Wayanad (1.2%) and Idukki (1.9%) districts. Appendix 7.4 shows the districtwise vehicles newly registered during 1993-94.

7.12 Regional Transport Authority issued stage carriage permits to 3509 vehicles during 1993-94 as against 2465 in 1992-93. Out of the total permits issued 2708 were temporary and 801 were pucca. Vehicles registered in other states having permit to operate in Kerala were 8000 in 1993-94. In order to promote tourism in the State, tourist permits were granted to 5377 cars in 1993-94 as against 4314 in 1992-93. Thus by March end 1994, there were 25398 tourist taxis in the State. Motor driving licences were issued to 255407 as against 255651 in 1992-93. Thus by the end of 1993-94 there were 22.13 driving licence holders in Kerala.

Table - 7.6

District-wise distribution of Motor Vehicles

| Sl. No. | Districts | 1992-93 | 1993-94 | Addition during 1993-94 | Increase (%) |
|---------|--------------------|-------------------|-------------------|-------------------------|--------------|
| 1. | Thiruvananthapuram | 120868 (15.50) | 132119 (14.90) | 11251 (10.6) | 9.3 |
| 2. | Kollam | 62871 (8.0) | 68474 (7.7) | 5603 (5.3) | 8.9 |
| 3. | Pathanamthitta | 43047 (5.5) | 47121 (5.3) | 4074 (3.8) | 9.5 |
| 4. | Alappuzha | 46560 (6.0) | 51406 (5.8) | 4846 (4.6) | 10.4 |
| 5. | Kottayam | 56996 (7.3) | 76105 (8.6) | 19109 (1.8) | 33.5 |
| 6. | Idukki | 15300 (2.0) | 16908 (1.9) | 1608 (1.5) | 10.5 |
| 7. | Emakulam | 124951 (16.0) | 140732 (15.8) | 15781 (14.8) | 12.6 |
| 8. | Thrissur | 89989 (11.5) | 101847 (11.5) | 11858 (11.1) | 13.2 |
| 9. | Palakad | 46055 (5.0) | 54683 (6.2) | 8268 (8.1) | 18.7 |
| 10. | Malappuram | 40439 (5.2) | 48642 (5.5) | 8203 (7.7) | 20.2 |
| 11. | Kozhikode | 68973 (8.8) | 77447 (8.7) | 8474 (8.0) | 12.3 |
| 12. | Wayanadu | 9082 (1.2) | 10492 (1.2) | 1410 (1.3) | 15.5 |
| 13. | Kannur | 37716 (4.8) | 41490 (4.7) | 3774 (3.5) | 10.0 |
| 14. | Kasaragodu | 17900 (2.3) | 19756 (2.2) | 1856 (1.7) | 10.4 |
| | State | 781398 (100) | 887672 (100) | 106274 (100) | 13.6 |

7.13 Motor vehicle department continued the modernisation measures during 1993-94. Accordingly, a computer together with accessories at a cost of Rs.7.10 lakhs has been installed in the Regional Transport Office, Thiruvananthapuram for the issue of driving licence and registration of motor vehicles during 1993-94. Department introduced laminated type driving licences in the Regional Transport Office, Thiruvananthapuram in 1993-94. With a view to control pollution from vehicle exhaust, department initiated steps to procure smoke meters. Steps have also been initiated for procuring three analysers for the conduct of road checks during 1993-94.

7.14 Revenue collected by Motor Vehicles Department was Rs.151.15 crore during 1993-94 as against Rs.112.82/- crores during 1992-93. It shows that revenue from motor vehicles increased by 34 per cent in 1993-94. Out of the total revenue Rs.133.23 crores (88%) was

from motor vehicle road tax and Rs.17.81 crores (11.8%) was from registration fees.

Goods Transport

7.15 In 1993-94, 11119 goods vehicles were added newly in Kerala. Thus by 1993-94 end there were 88455 goods vehicles in Kerala as against 77336 in 1992-93. This shows an increase of 14.4 per cent in 1993-94 as against 8.8 per cent in 1992-93. In 1993-94, out of the total goods vehicles in Kerala, 78514 (88.8%) were four wheelers and 9941 (11.2%) were three wheeler including tempos. It shows that four wheeler goods increased by 15.2 per cent and three wheelers goods vehicles increased by 8.5 per cent during 1993-94. See Fig 7.1

Passenger Transport

7.16 In 1993-94 there were 30370 buses in Kerala. Out of it 5025 buses were newly added during 1993-94, an increase of 19.8 per cent in 1993-94 as against 11 per cent in 1992-93. Out of the total buses newly added during 1993-94, 1380 (27.5%) were stage carriages and 3645 (72.5%) were contract carriages/Omni buses. While the number of stage carriages increased by 8.2 per cent the number of contract carriages increased by 43 per cent in 1993-94.

Kerala State Road Transport Corporation

7.17 Total fleet strength of KSRTC as on March 1994 was 3511 as against 3456 on March 1993. Fleet strength of KSRTC has thus increased by 55 during 1993-94. Corporation initiated several measures to improve its efficiency and productivity during 1993-94. The measures included replacement of over aged buses, improved maintenance, re-arranging low paying service, reduction of bus staff ratio, ban on fresh recruitment and revised work norms. Even though KSRTC replaced 413 buses during 1993-94, operational ratios show that its efficiency and productivity as compared to 1992-93 have not improved. Number of schedules operated decreased from 3032 in 1992-93 to 3013 in 1993-94. Average earning per vehicle on road per day decreased by Rs.253 from Rs.2176 in 1992-93 to Rs.1923. But average earnings per km of vehicle operated increased from paise 752 in

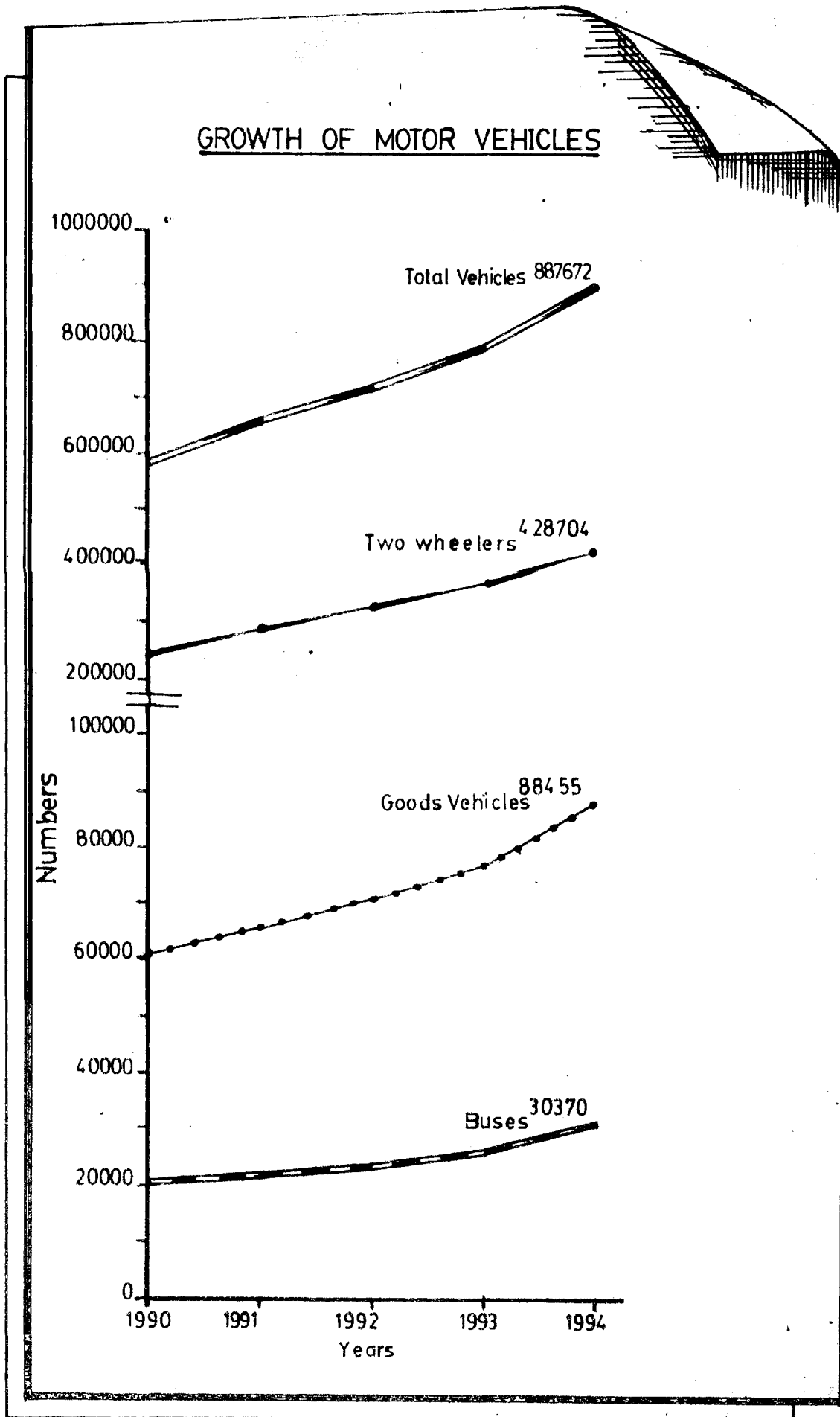


Fig. 7.1

1992-93 to paise 787 in 1993-94. Similarly average earnings per passenger also increased from paise 234 in 1992-93 to paise 248 in 1993-94. Average kms run per bus per day also decreased by 53 kms from 298 kms in 1992-93 to 245 kms in 1993-94. But average number of buses held daily increased from 3464 in 1992-93 to 3484 in 1993-94. Reduction in staff ratio per bus on road from 10.6 in 1992-93 to 8.02 in 1993-94 was a major achievement of KSRTC in 1993-94.

7.18 Gross revenue earnings increased by 8.8 per cent from Rs.230 crore in 1992-93 to Rs.250 crores in 1993-94. Gross revenue expen-

diture increased by 7.9 per cent from Rs.258.11 crore in 1992-93 to Rs.278.48 crore in 1993-94. Consequently the operation of KSRTC ended in a loss of Rs.28.27 crore in 1993-94 as against Rs.28.26 crore in 1992-93. (See Fig 7.2) The passengers carried in 1993-94 were 9852 lakhs as against 9610 lakhs in 1992-93 which shows an increase of 2.5 per cent. The vehicular utilisation was 78.5 per cent in 1993-94. Table 7.7 shows the details regarding the operational efficiency of KSRTC in 1992-93 and 1993-94.

7.19 In 1993-94 out of the total vehicles owned by KSRTC, 44 per cent were less than

Table - 7.7

Major indicators of the operational efficiency of KSRTC in 1993-94 over 1992-93.

| Sl. No. | Items | Year | | Increase (+) Decrease (-) |
|---------|---|---------|---------|------------------------------|
| | | 1992-93 | 1993-94 | |
| (1) | (2) | (3) | (4) | (5) |
| 1. | Fleet strength(Nos.) | 3456 | 3511 | 1.6 |
| 2. | Gross Revenue Earnings(Rs.crores) | 229.85 | 250.20 | 8.8 |
| 3. | Gross Revenue Expendr. (Rs. crore) | 258.11 | 278.48 | 7.9 |
| 4. | Gross operating Loss (crores)(5-4) | 28.26 | 28.28 | neg. |
| 5. | Number of schedules operated (Nos) | 3032 | 3013 | -0.6 |
| 6. | Average earning per vehicle on road per day (Rs.) | 2176 | 1923 | -11.6 |
| 7. | Average earnings per km of bus operated (Paise) | 752 | 787 | 4.6 |
| 8. | Average Earnings per passenger (Paise) | 234 | 248 | 6.0 |
| 9. | Average route length(kms) | 44.8 | 44.8 | -- |
| 10. | Average kms run per bus per day (kms) | 298 | 245 | -17.8 |
| 11. | Average number of buses held daily (Nos) | 3464 | 3484 | 0.6 |
| 12. | Passengers carried (Lakhs) | 9610 | 9852 | 2.5 |

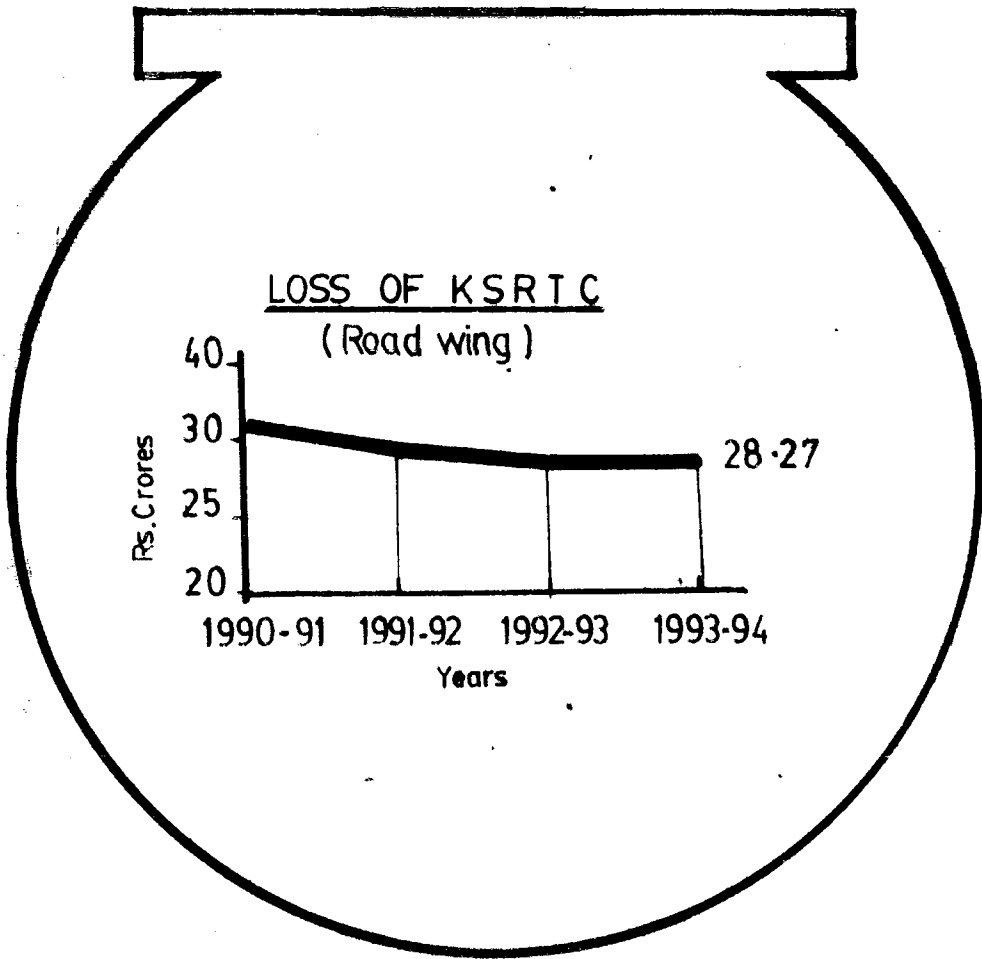


Fig. 7.2

five years old as against 42 per cent in 1992-93. Vehicles of 10 years and old and above were only 17.4 per cent in 1993-94 as against 22.5 per cent in 1992-93. Out of the total vehicles of

KSRTC in 1993-94, 65 per cent were less than 7 years old as against 60.4 per cent in 1992-93. Table 7.8 gives the age-wise classification of vehicles owned by KSRTC.

Table - 7.8

Age-wise details of Vehicles owned by KSRTC

| Sl. No. | Age | No. of buses as on | |
|---------|----------------------------------|--------------------|----------------|
| | | 31-12-1993 | 31-12-1994 |
| 1. | 10 years and above | 808 (22.5) | 614 (17.4) |
| 2. | Above 7 years and below 10 years | 615 (17.1) | 611 (17.4) |
| 3. | Above 5 years and below 7 years | 669 (18.7) | 730 (20.8) |
| 4. | Below 5 years | 1495 (41.7) | 1561 (44.4) |
| Total | | 3587 (100) | 3516 (100) |

(Figures in bracket indicate percentage to total)

7.20 Revision of bus fare in December, 1993 helped KSRTC to increase its earnings. Bus fare was again revised in April, 1994. Mini-

imum fare as well as per km fare were increased. Table 7.9 shows fare structure in KSRTC.

Table - 7.9

Fare structure in KSRTC

| Sl. No. | Type of Service | Basic fare per km as on | | | Minimum fare as on | | |
|---------|-----------------|-------------------------|----------|--------|--------------------|----------|--------|
| | | 31-12-91 | 31-12-93 | 1-4-94 | 31-21-91 | 31-12-93 | 1-4-94 |
| 1. | City | 13 | 15 | 18 | 70 | 80 | 80 |
| 2. | Ordinary | 13 | 15 | 18 | 70 | 80 | 100 |
| 3. | Fast Passenger | 16 | 18 | 20 | 150 | 150 | 150 |
| 4. | Super Fast | -- | 20 | 24 | -- | 200 | 300 |
| 5. | Express | 18 | 22 | 27 | 400 | 400 | 500 |
| 6. | Super Express | -- | 23 | 28 | -- | 400 | 500 |
| 7. | Deluxe Express | 20 | 25 | 30 | 500 | 500 | 1000 |
| 8. | Super Deluxe | -- | -- | 32 | -- | -- | 1000 |

7.21 KSRTC decreased its staff strength substantially during 1993-94. By the end of March 1993, the staff strength of KSRTC was 29716. It has again been reduced to 28160 by March 1994. It shows that the total staff strength

during 1993-94 has been reduced by 1506 (5.1%).

Category-wise staff strength during 1992-93 and 1993-94 is given table 7.10.

Table - 7.10

Category-wise staff position of KSRTC

| Sl. No. | Category | As on 31-3-92 | As on 31-3-93 | As on 31-3-94 | Decrease (Nos.) | Decrease as on 31-3-94 over 31-3-93 (%) |
|---------|---|-----------------|-----------------|-----------------|-----------------|---|
| 1. | Administrative Staff (including watch & ward) | 4543 (14.9) | 4392 (14.8) | 4021 (14.3) | 371 23.8) | 8.4 |
| 2. | Traffic personnel | 19151 (62.6) | 18601 (62.6) | 17522 (62.1) | 1079 (69.4) | 5.8 |
| 3. | Maintenance personnel | 6878 (22.5) | 6723 (22.6) | 6617 (23.6) | 106 (6.8) | 1.6 |
| | Total | 30572 | 29716 (100) | 28160 (100) | 1556 | 5.1 |

Kerala Transport Development Finance Corporation.

7.22 KTDFC raised Rs.44.48 lakhs as public deposit in 1993-94 as against Rs.4.86 lakhs in 1992-93. Government of Kerala provided Rs.775 lakhs as share capital contribution during 1993-94. The Corporation has released Rs.8.20 crore to KSRTC as loan for the purchase of new vehicles. The working of KTDFC in 1993-94 ended with a profit of Rs 88.92 lakhs before tax and Rs.43.26 lakhs after tax. The net profit in 1992-93 was Rs.21.11 lakhs before tax and Rs.10.55 lakhs after tax. This shows that KTDFC performed relatively well during 1993-94.

Road Accidents

7.23 The tremendous growth in the number of vehicles had its associated problem of ever increasing road accidents. Total number of road accidents in Kerala increased from 26925 in 1992-93 to 32504 in 1993-94. Number of persons injured in road accidents also increased from 37050 in 1992-93 to 44876 in 1993-94. Number of persons killed in road accidents increased from 2049 in 1992-93 to 2264 in 1993-94. This shows that road accidents, persons injured in accidents and persons killed in accidents increased significantly in 1993-94 when compared to 1992-93. While road accidents increased by nearly 21 per cent, persons injured increased, by 20 per cent and persons killed increased by nearly 11 per cent. Table 7.6 shows

the details on road accidents, persons injured and killed in 1992-93 and 1993-94.

Table 7.1

Motor vehicle road accidents and persons injured and killed in Kerala

| Sl. | Particulars | 1992-93 | 1993-94 | Increase (%) |
|-----|-----------------|---------|---------|--------------|
| 1 | 2 | 3 | 4 | 5 |
| 1. | Road Accidents | 26925 | 32504 | 20.7 |
| 2. | Persons Injured | 37503 | 44876 | 19.6 |
| 3. | Persons Killed | 2049 | 2264 | 10.5 |

7.24 Road accidents were the highest in Ernakulam district followed by Thiruvananthapuram and Kozhikode. Persons injured and killed in road accidents were also the highest in Ernakulam district (see Appendix 7.7).

Out of total motor vehicle road accidents in 1993-94 23 per cent were caused by buses and out of it KSRTC buses were involved in 4 per cent. Road accidents involved by two wheelers and Auto rickshaw were 21 per cent and 18.6 per cent respectively. Road accidents by motor cars and taxis were 7 per cent and 9.4 per cent respectively. Thus in the total road accidents in the State buses and two wheelers top the table followed by autorickshaws (see Appendix 7.8). Out of the total road accidents 77.5 percent occurred in day light and 22 per cent in darkness (See Appendix 7.9).

Railways

7.25 The railway route length in Kerala was 1198 kms as on March, 1994. Out of it 1069 kms were broadgauge and 129kms were metregauge. There are ten railway routes and 185 stations in Kerala. Number of trains operated were 101 during 1993-94 as against 93 in 1992-93. Four trains were started from Kerala during 1993-94 namely, Thiruvananthapuram-Madurai, Nagercoil-Guruvayur, Thiruvananthapuram-New Delhi and Thiruvananthapuram-Bombay.

7.26 The passenger traffic and goods traffic through Thiruvananthapuram Division showed a down trend in 1993-94. The Division carried only 709 lakh passengers in 1993-94 as against 716 lakhs in 1992-93. This shows that the total passenger traffic through this Division decreased by nearly one per cent in 1993-94. Out of the total passenger traffic in 1993-94, passengers originated from Thiruvananthapuram Division were 394 lakhs and passengers terminated were 315 lakhs. The originating and terminating passenger traffic through this Division were 398 lakhs and 318 lakhs respectively during 1992-93. Thus both originating and terminating passenger traffic declined in 1993-94. Both originating and terminating traffic decreased by nearly one per cent in 1993-94.

7.27 Goods traffic also showed a down trend during 1993-94. In 1993-94 total goods traffic was only 62.12 lakh tonnes as against 69.55 lakh tonnes during 1992-93. This shows a decrease of nearly 11 per cent. Good traffic originated decreased by 10.7 per cent from 33.12 lakh tonnes in 1992-93 to 29.58 lakh tonnes in 1993-94. Similarly goods traffic terminated also decreased by nearly 11 per cent from 36.43 lakh tonnes in 1992-93 to 32.54 lakh tonnes in 1993-94. Table 7.12 shows passenger and goods traffic through Thiruvananthapuram Division during 1992-93 and 1993-94.

Table 7.12

Passenger and goods traffic in Kerala (Thiruvananthapuram Division)

| Sl. No. | Traffic | Years | | Decrease (%) |
|---------|-----------------------------|---------|---------|--------------|
| 1 | 2 | 1992-93 | 1993-94 | 3 |
| 1. | Passenger traffic (lakhs) | | | |
| i. | Originating | 398 | 394 | 1.0 |
| ii. | Terminating | 318 | 315 | 0.9 |
| | Total | 716 | 709 | 1.0 |
| 2. | Goods Traffic (Lakh tonnes) | | | |
| i. | Originating | 33.12 | 29.58 | 10.7 |
| ii. | Terminating | 36.43 | 32.54 | 10.7 |
| | Total | 69.55 | 62.12 | 10.7 |

7.28 Revenue receipts from Thiruvananthapuram Division increased from Rs.17350 lakhs in 1992-93 to Rs.18901 lakhs in 1993-94, which shows an increase of Rs.1551 lakhs (8.9%). While the revenue from passenger traffic increase by 12 per cent in 1993-94, revenue from goods traffic increased by only 6 per cent. Out of the total revenue receipts in 1993-94, receipts from passenger traffic was 48 per cent and 52 per cent from goods traffic. (see Table 7.13)

Table 7.13

Revenue receipts from Thiruvananthapuram Railway Division 1992-93 and 1993-94

| Sl. No. | Items | Receipts Rs.lakhs | | Increase |
|---------|-----------|-------------------|---------|----------|
| 1 | 2 | 1992-93 | 1993-94 | 3 |
| 1. | Passenger | 8064 | 9047 | 12.2 |
| 2. | Goods | 9286 | 9854 | 6.1 |
| | Total | 17350 | 18901 | 8.9 |

Air Transport (Indian Airlines)

7.29 Both goods and passenger traffic through Indian Airlines in Kerala increased in 1993-94 over 1992-93. Passengers carried increased from 5.8 lakhs in 1992-93 to 6.7 lakhs in 1993-94. Out of these total passengers, 3.18

lakhs originated from Kerala and 3.53 lakhs terminated in Kerala. Goods traffic through Indian airlines also increased from 4098 tonnes in 1992-93 to 5121 tonnes in 1993-94. Out of the total goods traffic 2920 tonnes originated from Kerala and 2201 tonnes terminated in Kerala. (See Table 7.14).

Table 7.14

Air Traffic (Indian Airlines) through Kerala from Thiruvananthapuram, Kochi & Kozhikode

| Items | Years | | Increase (%) |
|--------------------------|---------|---------|--------------|
| | 1992-93 | 1993-94 | |
| 1. Passengers (nos.'000) | | | |
| i. Originating | 277.97 | 318.0 | 14.4 |
| ii. Terminating | 302.28 | 363.0 | 16.8 |
| Total | 580.25 | 671.0 | 15.6 |
| 2. Goods (Tonnes) | | | |
| i. Originating | 2304.05 | 2920 | 26.7 |
| ii. Terminating | 1793.49 | 2201 | 22.7 |
| Total | 4097.54 | 5121 | 25.0 |

Ports and Harbours

7.30 The overall port activities in Kerala during 1993-94 declined when compared to

1992-93. The cargo handled and vessels called at major and intermediate ports declined during 1993-94. The total cargo handled through major, intermediate and minor ports together decreased by 4.7 per cent from 81 lakh tonnes in 1992-93 to 77.2 lakh tonnes in 1993-94. While the cargo handled through major port decreased by 4.7 per cent during 1993-94 the cargo handled through intermediate ports decreased by 22.5 per cent. But the cargo handled through minor ports increased by 10 per cent from 5282 tonnes to 5790 tonnes. The share of cargo handled through major port increased marginally during 1993-94 and the share of intermediate and minor ports decreased. Total number of vessels called at the various ports also decreased by 1.4 per cent in 1993-94. While the vessels called at major and intermediate ports decreased the vessels called at minor ports increased. Table 7.15 shows the cargo handled and vessels called at the major, intermediate and minor ports of Kerala during 1993-94 and 1992-93. Out of the total cargo handled during 1993-94 the share of intermediate and minor ports together was only 1.3 per cent in 1993-94 as against 1.5 per cent in 1992-93.

Table 7.15

Cargo handled and vessels called at the major, intermediate and minor ports of Kerala

| Ports | Cargo handled (lakh tonnes) | | Increase/Decrease (%) | Vessels called (Nos.) | | Increase/Decrease (%) |
|-----------------------|-----------------------------|-----------------|-----------------------|-----------------------|---------------|-----------------------|
| | 1992-93 | 1993-94 | | 1992-93 | 1993-94 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. Major Port | 79.78 (98.5) | 76.20 (98.7) | -4.7 | 783 (63.7) | 769 (63.4) | -1.8 |
| 2. Intermediate Ports | 1.20 (1.4) | 0.93 (1.2) | -22.5 | 359 (29.2) | 348 (28.7) | -3.1 |
| 3. Minor Ports | 0.05 (0.1) | 0.06 (0.1) | +20.0 | 88 (7.1) | 96 (7.9) | +9.1 |
| Total | 81.03 (100) | 77.19 (100) | -4.7 | 1230 (100) | 1213 (100) | -1.4 |

Major Port

7.31 The major port Kochi, handled only 76.2 lakh tonnes of cargo in 1993-94 as against 79.78 lakh tonnes during 1992-93. the number of ships called at the major port were 769 in 1993-94 as against 783 in 1992-93. This shows a decrease of 1.8 per cent.

Intermediate and Minor Ports

7.32 Landing and shipping operations took place only in four intermediate and minor ports during 1993-94. They are namely Neendakara, Kozhikode (including Beypore) Vizhinjam and Azheekal. These ports together handled only 0.99 lakh tonnes of cargo during

1993-94 as against 1.25 lakh tonnes during 1992-93. Out of this total cargo, 0.06 lakh tonnes (6%) were imports and 0.93 lakh tonnes (94%) were exports. While the cargo handled during 1993-94 over 1992-93, cargo handled through intermediate ports fell down substantially (See Fig 7.3). Out of the total cargo handled during 1993-94, 0.59 lakh tonnes (60%) were handled at Neendakara, 0.34 lakh tonnes (34%) at Kozhikode and 0.06 lakh tonnes (6%) at Azheekal. While the entire cargo handled through Neendakara was ilmenite, it was entirely timber in Azheekal. Cargo handled through Kozhikode included items like timber, cement, river sand granite metal, HSD oil, bricks, rice etc. (see Appendix 7.12). A passenger ship called at Vizhinjam port with foreigners twice during 1993-94 with 99 passengers during the first time and 111 passengers during the second time.

7.33 444 vessels called at intermediate and minor ports in 1993-94 as against 447 vessels in 1992-93. Out of them 55 were steamers and 389 were sailing vessels. Five steamers were foreign. Out of the total vessels that called, 345 were at Kozhikode and 95 were at Azheekal (See Appendix 7.13). Three steamers called at Neendakara and two at Vizhinjam. During 1993-94, 1733 harbour crafts were registered at the intermediate and minor ports of Kerala as against 514 in 1992-93. Out of the newly registered harbour crafts, 1610 were mechanised fishing vessels, 120 were canoes including boats and 3 were cargo boats. Out of the total mechanised fishing vessels registered in 1993-94, 835 (52%) were at Neendakara and 453 (28%) were at

Kasaragode. (See Appendix 7.14) Port Department conducted 12 search and rescue operations at sea during 1993-94 and rescued 37 persons and 3 fishing vessels.

7.34 Dredging was conducted in three ports, namely, Neendakara, Munambam and Ponnani during 1993-94. Dredging was conducted for 294 hours and the quantity dredged was 83855 M3. Including the dredging for others, the total quantity dredged was 277055 M3. The total value of dredging was Rs.31.37 lakhs in 1993-94 as against Rs.21.30 lakhs in 1992-93 (see appendix 7.15).

7.35 Total revenue collected by intermediate and minor ports of Kerala during 1993-94 was Rs78.96 lakhs as against Rs.72.23 lakhs in 1992-93. Out of the total revenue collected in 1993-94, Rs.52.86 lakhs (67%) were from Neendakara port (see appendix 7.16). The revenue collection thus shows an increase of 9.3 per cent in 1993-94 over 1992-93.

Passports and Emigration

7.36 There are three Regional Passport Offices in Kerala at Thiruvananthapuram, Kochi and Kozhikode. These three passport offices together received 441249 applications during 1993-94. But the number of passports issued were 598069. Among the three passport offices applications received and passports issued were the highest in Kozhikode in 1993-94. While Kozhikode office received 2.01 lakh passport applications, Kochi office received 1.22 lakhs and Thiruvananthapuram office received 1.18 lakhs in 1993-94. (See Table 7.16).

Table 7.16

Passport Applications received and Passports issued from the Regional Passport Offices in Kerala.

| Passport Offices | Year and Numbers | | | |
|-----------------------|-----------------------|------------------|----------------------|------------------|
| | 1992-93 | | 1993-94 | |
| | Applications received | Passports issued | Application received | Passports issued |
| 1. Thiruvananthapuram | 166653 | 116737 | 117630 (26.6) | 174493 (29.2) |
| 2. Kozhikode | 206917 | 341000 | 201146 (45.6) | 286744 (47.9) |
| 3. Kochi | NA | NA | 122473 (27.8) | 136832 (22.9) |
| Total | | | 441249 (100) | 598069 (100) |

Note: Figures in brackets indicate percentage to total. Similarly while Kozhikode office issued 2.87 lakh passports, Kochi office issued 1.37 lakhs and Thiruvananthapuram office issued 1.74 lakhs in 1993-94. This shows that Kozhikode office alone issued nearly 48 per cent of the total passports issued from Kerala in 1993-94. Share of Thiruvananthapuram and Kochi office were 29 per cent and 23 per cent respectively. (See appendix 7.17)

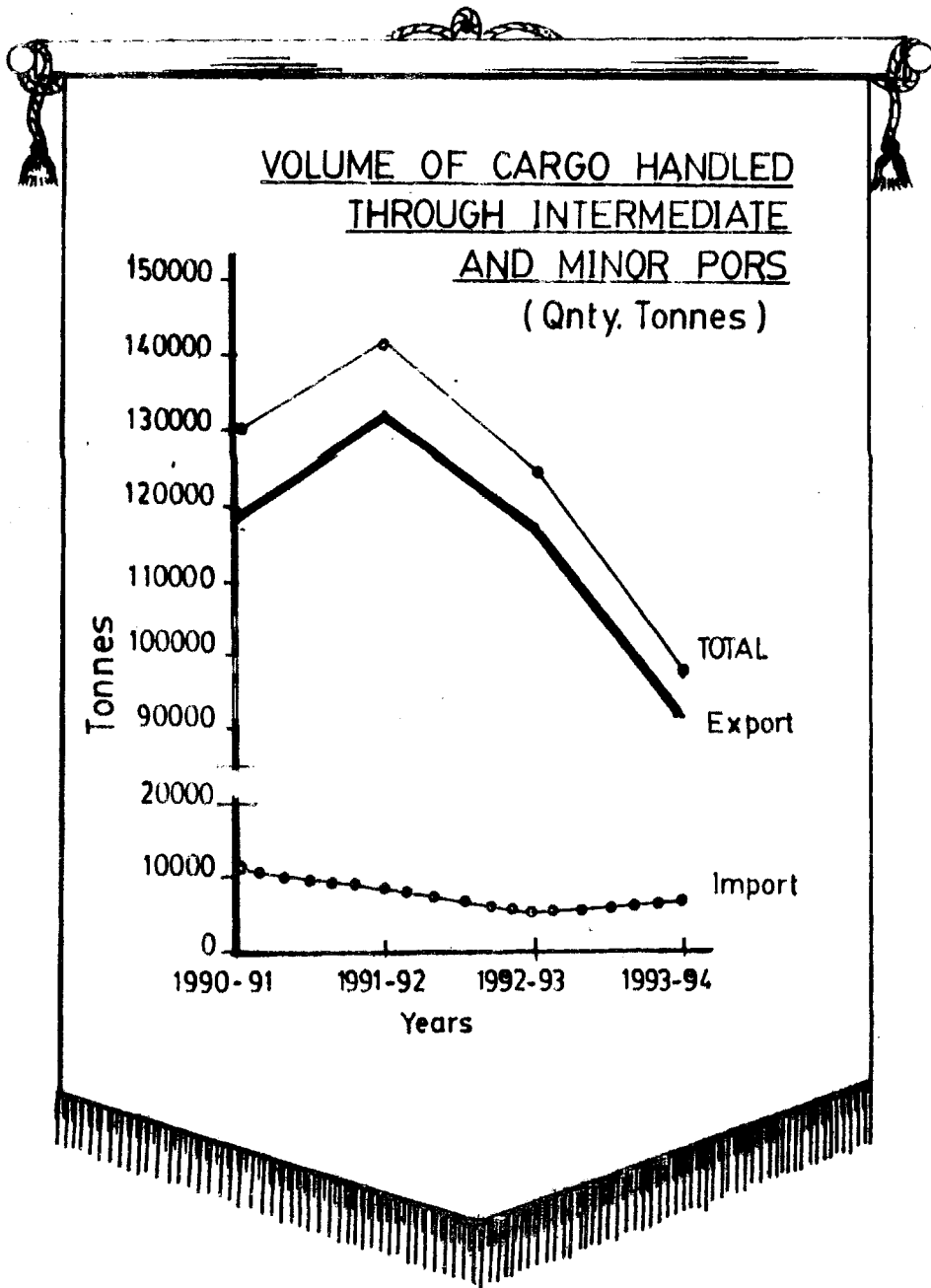


Fig. 7.3

Inland Water Transport

7.37 State Water Transport Department, Kerala Shipping and Inland Navigation Corporation and the Water Transport Wing of KSRTC are the three public sector agencies that carry out the Water Transport operations in the State. These three agencies together owned 106 boats in 1993-94 as against 108 in 1992-93. Of the total 106 boats in 1993-94 only 71 were in operation. The fleet utilisation of these three agencies were 67 percent in 1993-94, as against 58 percent in 1992-93. It shows that despite a fall in total fleet strength its utilisation has increased. The passengers carried also increased from 265 lakhs in 1992-93 to 302 lakhs in 1993-94 which shows an increase of 14 percent. Agency-wise analysis shows that while SWTD carried 50 percent of the total passengers in 1993-94, KSINC

carried 21 percent and KSRTC carried 29 percent. SWTD and KSINC together carried 2.75 lakh tonnes of cargo in 1993-94 as against 2.85 lakh tonnes in 1992-93 which shows a decrease of 9.6 percent. These three agencies together collected a revenue of Rs.546 lakhs in 1993-94 as against Rs.471 lakhs in 1992-93 which shows an increase of Rs.75 lakhs (16 percent) Mean while revenue expenditure increase by only Rs.60 lakhs from Rs.699 lakhs in 1992-93 to Rs.759 lakhs in 1993-94 which shows an increase of 8.6 percent. During 1993-94 only KSINC made profit while the other two agencies incurred loss.

7.38 Table 7.17 shows the operational statistics of Inland Water Transport Agencies in Kerala.

Table 7.17

Operational statistics of Inland Water Transport agencies in Kerala

| Particulars | 1992-93 | | | | 1993-94 | | | | % Variation over the previous year. |
|--|------------|-----------|----------|---------|------------------|-----------------------|---------------------|------------|-------------------------------------|
| | SWTD | KSINC | KSRTC | Total | SWTD | KSINC | KSRTC | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. Total No. of Boards | 85 | 11 | 12 | 108 | 85 | 11 | 10 | 106 | - 1.85 |
| 2. No. of boats in operation | 42 | 9 | 12 | 63 | 53 | 8 | 10 | 71 | + 12.70 |
| 3. No. of Passengers carried (in lakhs) | 120 | 59 | 86 | 265 | 152 | 62 | 88 | 302 | +13.96 |
| 4. Volume of Cargo carried (thousand tonnes) | .022 | 285.00 | -- | 285.022 | 0.009 | 275.00 | -- | 275.009 | (-) 3.51 |
| 5. Total Revenue Receipt (Rs.in lakhs) | 160.00 | 249.00 | 62.00 | 471.00 | 199.00 (24.4) | 284.00 (14.06) | 63.00 (1.6) | 546.00 | 15.92 |
| 6. Total Revenue Expenditure (Rs. in lakhs) | 350.00 | 232.00 | 117.00 | 699.00 | 436.00 | 230.00 | 93.00 | 759.00 | (-) 8.58 |
| 7. Loss/Profit (Rs. in lakhs) | (-) 190.00 | (+) 17.00 | (-)54.00 | 277.00 | 237.00 (24.7) | (+)517.00 (217.65) | (-)29.00 (-) 413 | (-) 212.00 | (-) 6.61 |

+ Profit/increase (-) Loss/decrease

State Water Transport Department

7.39 State Water Transport Department owned 85 boats in 1993-94. Out of them, 53 boats were in operation as against 42 in 1992-93. The number of boats thus operated to total boats increased from 49 percent in 1992-93 to

62 percent in 1993-94. This shows 26 percent increase in fleet operation as compared to 1992-93. SWTD operated 533 schedules in 1993-94 and carried 152 lakh passengers. This shows that a passengers carried by SWTD increased by 26.7 percent in 1993-94 over 1992-93. Volume of Cargo handled decreased to 8.9 tonnes in 1993

94 from 22.04 tonnes in 1992-93 which shows a decrease of 59 percent. (See table 7.17).

7.40 Revenue receipts increased to Rs.199 lakhs in 1993-94 from Rs.160 lakhs in 1992-93 which shows an increase of Rs.39 lakhs (24.4 percent). Revenue expenditure increased by Rs.86 lakhs (24.6%) from Rs.350 lakhs in 1992-93 to Rs.436 lakhs in 1993-94. The working of the SWTD ended in a loss of Rs.237 lakhs in 1993-94 as against Rs.190 lakhs in 1982-93. This shows that the loss incurred by SWTD increased by 24.7 percent in 1993-94 over 1992-93.

Kerala Shipping and Inland Navigation Corporation.

7.41 Kerala Shipping and Inland Navigation Corporation is engaged in both passenger and cargo transport. It has 11 passenger boats. Out of them 8 boats were operated in 1993-94 as against 9 in 1992-93. The passengers carried by the corporation increased to 62 lakhs from 59 lakhs in 1992-93 which shows an increase of 5 percent. The volume of cargo carried by the corporation decreased from 2.85 lakhs tonnes in 1992-93 to 2.75 lakhs tonnes in 1993-94 which shows a decrease of 3.5 percent. Revenue receipts of the corporation increased by Rs.35 lakhs from Rs.249 lakhs in 1992-93 to Rs.284 lakhs in 1993-94. Revenue expenditure decreased by Rs.2 lakhs from Rs.232 lakhs in 1992-93 to Rs.230 lakhs in 1993-94. This shows that while revenue receipts increased by 14 per cent during 1993-94, revenue expenditure decreased by nearly one percent. Consequently Corporation made a profit of Rs.54 lakhs in 1993-94 as against Rs.17 lakhs in 1992-93. (See Table 7.17).

Water Transport Wing of KSRTC

7.42 Water Transport Wing of KSRTC operates only passenger boat services. It had a fleet strength of 10 boats in 1993-94 and all these boats were operated. Number of schedules operated were 216 in 1993-94 and 1992-93. The passengers carried increased to 88 lakhs in 1993-94 from 86 lakhs in 1992-93.

7.43. Revenue receipt only marginally increased from Rs.62.37 lakhs in 1992-93 to Rs.62.73 lakhs in 1993-94. This shows only an

increase of 1.6 percent. Revenue expenditure decreased to Rs.93 lakhs in 1993-94 from Rs.117 lakhs in 1992-93. Marginal increase in revenue and a substantial decrease in expenditure helped to reduce the loss from Rs.54.23 lakhs in 1992-93 to Rs.28.95 lakhs in 1993-94. (See table 7.17 and Fig 7.4).

COMMUNICATIONS

7.44 During 1993-94, 31 new post offices were opened in the Kerala circle. Out of them 29 were branch offices. Thus by 1993-94 end there were 5040 post offices in Kerala circle as against 5009 in 1992-93. Out of the total post offices 51 (1 per cent) head post offices 1970 (39 percent) were sub post offices and 3019 (60 percent) were branch offices. Of the total post offices in the Kerala circle 10 were in Lakshadweep and 4 in Mahie. Excluding these 14 post offices, the number of post offices in Kerala in 1993-94 were 5026 as against 4995 in 1992-93.

7.45 There were six Speed Post Centres in Kerala at Thiruvananthapuram, Kollam, Kochi, Alwaye, Thrissur and Kozhikode in 1993-94. Table 7.18 shows the growth of post offices in 1993-94 over 1992-93 in the Kerala circle.

Table 7.18

Category-wise distribution of Post Offices

| Post Offices | 1992-93 | 1993-94 |
|----------------------|---------|---------|
| 1. Head Post Offices | 51 | 51 |
| 2. Sub Post Offices | 1968 | 1970 |
| 3. Branch Offices | 2990 | 3019 |
| Total | 5009 | 5040 |

There were three other postal services under Kerala circle. They are:-

- i. Railway Mail Service
- ii. Mail Motor Service and
- iii. Central Stamp Depot

7.46 The total number of Post Offices under these three other postal services divisions in 1993-94 were 94 as against 89 in 1992-93.

LOSS/PROFIT OF INLAND WATER TRANSPORT AGENCIES IN KERALA

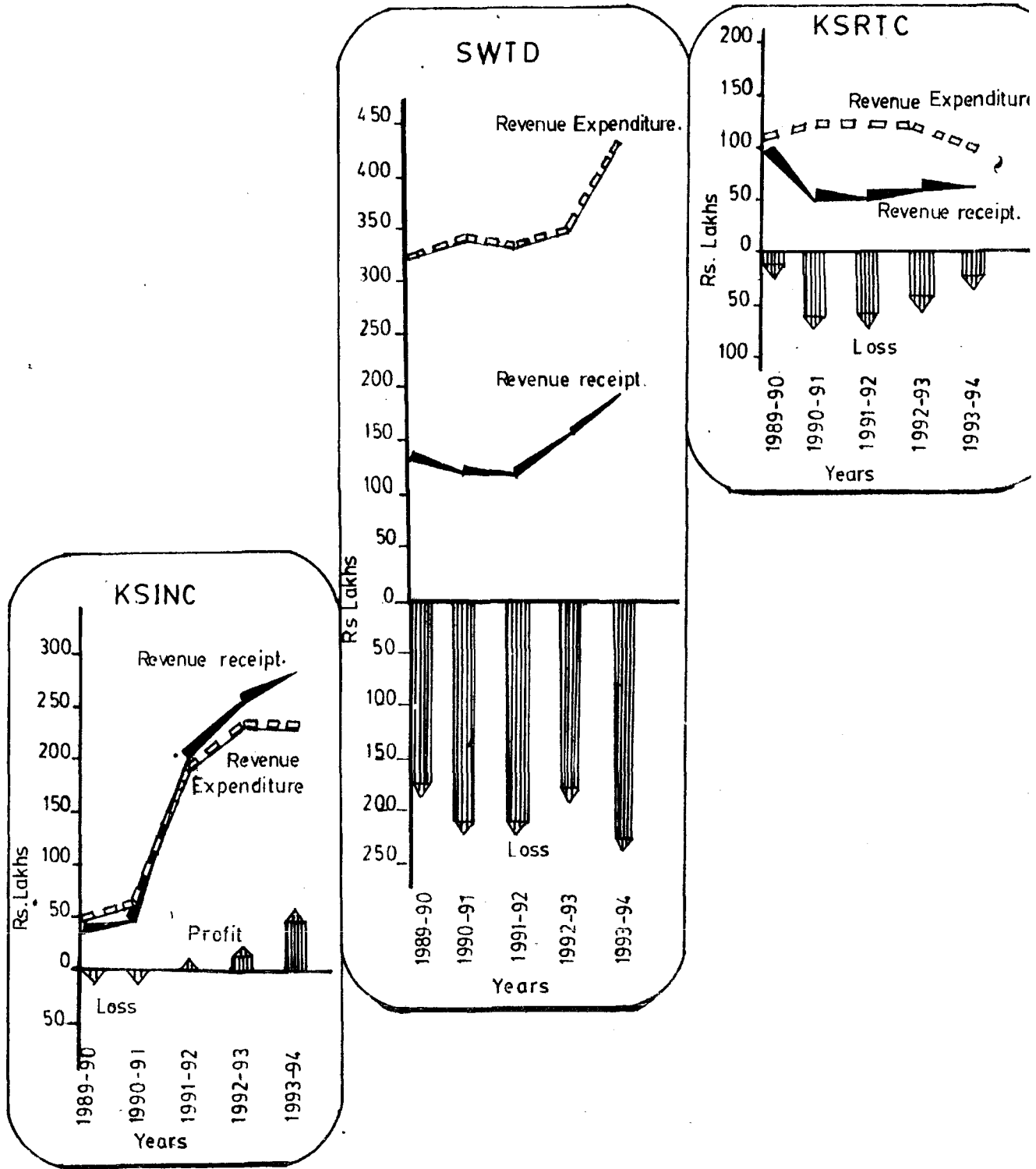


Fig. 7.4

7.47 District-wise distribution of post offices show that area served by one post office differ between districts from 4.00 sq.kms. in Alappuzha to 16.78 sq. kms. in Idukki during 1993-94. In all the districts the area served by one Post Office decreased marginally in 1993-94 over 1992-93. Similarly population served by one post office varies from 7363 in Ernakulam to 3602 in Idukki in 1993-94. In Kerala, on an average one post office served 7.72 sq. kms and 5773 persons during 1993-94 as against 7.77 sq.kms and 5984 persons in 1992-93. This shows that area and population served by each post office decreased in Kerala during 1993-94 over 1992-93. District-wise details of area and population served by one post office during 1993-94 are given in Appendix 7.22.

Telecommunications

7.48 Kerala telecom circle achieved good progress in 1993-94. Total number of telephone exchanges in Kerala increased to 715 in 1993-94 from 688 in 1992-93. This shows that 27 telephone exchanges were opened in Kerala during 1993-94. Consequently total equipped capacity increased by 95794 from 428212 in 1992-93 to 524006 in 1993-94. This was against a net addition of 83676 lines in 1992-93. Number of working connections also increased from 377805 in 1992-93 to 436741 in 1993-94. But the number of working connections increased by only 58936 in 1993-94 as against 72200 in 1992-93. Table 7.19 shows the equipped capacity and working connections in 1992-93 and 1993-94 in Kerala.

Table 7.19

Area-wise improvement in Telephone system in Kerala

| Sl. No. | Secondary Switching Areas | No. of Exchanges (Nos) | | Total Equipped capacity (Nos) | | Total Working connections (Nos) | |
|---------|---------------------------|------------------------|------|-------------------------------|--------|---------------------------------|--------|
| | | 1993 | 1994 | 1993 | 1994 | 1993 | 1994 |
| 1. | Alappuzha | 35 | 37 | 22400 | 27268 | 20707 | 23512 |
| 2. | Kozhikode | 109 | 115 | 55584 | 70062 | 49885 | 59929 |
| 3. | Kannur | 99 | 105 | 47420 | 58692 | 39734 | 46294 |
| 4. | Ernakulam | 143 | 146 | 99428 | 121972 | 88150 | 100161 |
| 5. | Kottayam | 58 | 58 | 39424 | 44680 | 34834 | 39953 |
| 6. | Palakkad | 63 | 64 | 25116 | 27880 | 21309 | 24339 |
| 7. | Pathanamthitta | 37 | 38 | 18168 | 23480 | 15836 | 18494 |
| 8. | Kollam | 53 | 56 | 29248 | 35536 | 25351 | 30077 |
| 9. | Trissur | 49 | 52 | 38820 | 51732 | 33548 | 38821 |
| 10. | Thiruvananthapuram | 42 | 44 | 52604 | 62704 | 48451 | 55161 |
| Total | | 688 | 615 | 428212 | 524006 | 377805 | 436741 |

Source: Department of Telecommunications.

7.49 Despite an increase in the total equipped capacity applicants in the wait list for telephone connections have increased. By 1992-93 end the number of applicants in the wait list were 293043. This number increased to 314442 by 1993-94 end. Out of the total applicants in the wait list in 1993-94, 21 per cent were in

Kozhikode followed by 15 percent in Ernakulam and 14 percent in Kannur. It shows that 50 per cent of the total applicants in the wait list are in these three areas. Number of public call offices increased by 2374 in 1993-94. In 1992-93 there were 8229 public call offices in Kerala and their number increased to 10603 in 1993-94.

Highest number of public call offices were in Ernakulam (2396) followed by Calicut 1656) and Trissur (1124). Table 7.20 shows the applicants

in the wait list for telephone connections and the public call offices in Kerala.

Table 7.20

Number of applicants in the wait list for Telephone connections and public call offices

| Sl. No. | Secondary switching Areas | Applicants in the wait list | | Public call offices | |
|---------|---------------------------|-----------------------------|--------|---------------------|-------|
| | | 1993 | 1994 | 1993 | 1994 |
| 1. | Alappuzha | 16498 | 17575 | 425 | 514 |
| 2. | Kozhikode | 59642 | 67021 | 1238 | 1656 |
| 3. | Kannur | 41656 | 45453 | 974 | 1096 |
| 4. | Ernakulam | 45407 | 46649 | 1699 | 2396 |
| 5. | Kottayam | 26288 | 26033 | 722 | 953 |
| 6. | Palakkad | 12425 | 14457 | 592 | 719 |
| 7. | Pathanamthitta | 15105 | 16029 | 354 | 513 |
| 8. | Kollam | 16522 | 16828 | 482 | 609 |
| 9. | Trissur | 32386 | 34339 | 926 | 1124 |
| 10. | Thiruvananthapuram | 27114 | 30058 | 817 | 1023 |
| Total | | 293043 | 314442 | 8229 | 10603 |

Source: Department of Telecommunications.

TOURISM

7.50 The tourist arrivals in the state have shown a positive trend during the year 1993. As the latest information regarding tourist arrivals to the state for 1994 is not available with the Department of Tourism, the year 1993 is taken for comparison. The number of foreign tourist and domestic tourist arrivals to the state in the year 1993 stood at 95,206 and 1,027,236 respectively compared to 90,635 foreign tourists and 994,140

domestic tourists in 1992, an increase of 3.5%. During the same period the tourist arrivals at the national level registered only a marginal increase of 0.5%. The disturbed conditions in the northern parts of the country might have contributed for a larger flow of tourists to Kerala.

7.51 The number of foreign and domestic tourists flow to the state from 1986 to 1993 is given below. (See Table 7.21, Table 7.22 and Fig.7.5)

Table 7.21

Arrival of Foreign Tourists in Kerala

| Years | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 |
|---|-------|-------|-------|--------|-------|-------|--------|-------|
| Number | 50841 | 51816 | 52083 | 62952 | 66139 | 69309 | 90635 | 95209 |
| Percentage variation over the previous year | -- | +1.92 | +0.52 | +20.87 | +5.06 | +4.79 | +30.77 | +5.05 |

Table 7.22

Arrival of Domestic Tourists in Kerala

| Years | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|---------|
| Number | 423756 | 510619 | 582050 | 634248 | 866525 | 948991 | 994140 | 1027236 |
| Percentage variation | -- | +20.50 | +13.99 | +8.97 | +36.62 | +9.52 | +4.76 | +3.33 |

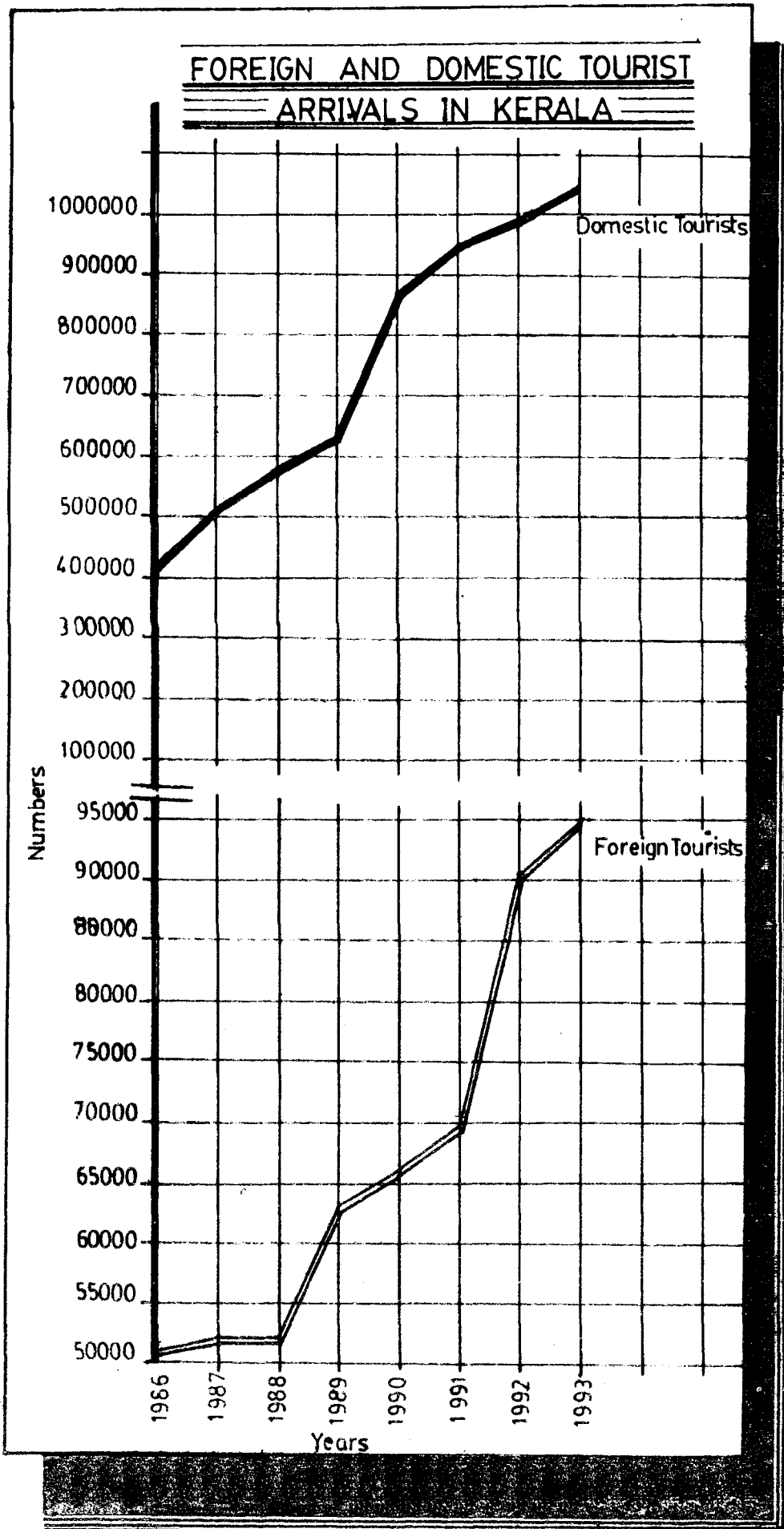


Fig. 7.5

7.52 The Department of Tourism, Kerala Tourism Development Corporation and the Department of Forests together incurred an expenditure of Rs.482.22 lakhs in 1993-94 which constitutes about 88 per cent of the total outlay earmarked for tourism under State Plan. While the Department of Tourism could spend about 82% of the outlay under state plan during the year under report, the financial achievement under centrally sponsored schemes is far from satisfactory. Out of the total outlay of Rs.283.90 lakhs earmarked for centrally sponsored schemes the Department could spend only 4 per cent in 1993-94.

7.43 The development of tourist infrastructure and publicity formed the core of activities of the Department of Tourism. While the Department could spend the entire amount under publicity the expenditure under infrastructure development fell short of the target.

7.54 The activities carried out by the Department of Tourism during 1993-94 can be categorised into three viz. publicity, infrastructure development and other schemes which are of a general nature.

7.55 Greater attention was given for publicity both within the country and outside through attractive brochures, picture cards, news papers and magazines. 30,000 post cards, 25,000 ITB posters, and 500 German brochures were printed during the year under report. Twenty five organisations and three travel agents and tour operators were given assistance for conducting local cultural programmes and printing brochures respectively. The Department also participated in Travel Trade fair at New Delhi. The publicity efforts made by the Department of Tourism apparently have not created the desired impact given the fact that some parts of the country, considered as prime tourist spots were not able to attract tourists as in the past.

7.56 Renovation of guest houses at Peerumedu and Ponmudi, building up of certain sculptures at Veli, development works such as construction of bathing ghats and toilets at Athirappally were the main activities carried out by the Department of Tourism for the development of tourist centres. Six investors were given

subsidy for construction of motels in the private sector. A consultant was engaged for preparing a comprehensive tourism project report for Bakel fort and adjoining beaches which started the work on project preparation. The provision made in the budget has been placed at the disposal of the Bakel Tourism Authority for meeting the initial expenses. The development works of Erumely, Vilangankunnu, Munnar and Devikulam as envisaged for the year 1993-94 were not implemented. The development of Veli too could not be carried out effectively due to the delay in completion of the land acquisition procedures.

7.57 The District Tourism Promotion Councils actively participated in tourism promotion activities during the period under review. Construction of water park at Akkulam, cafeteria at Aruvikkara, organisation of food festivals by the DTPC, Trivandrum, opening of information centre at Munnar, organisation of conducted tours and boat services at Alleppey, rock garden, by DTPC, Palghat and formation of a 'dream city' by DTPC, Kozhikode were some of the main activities of the DTPC's in the year 1993-94.

7.58 The Kerala Institute of Tourism and Travel Studies has conducted 5 courses, and 9 training programmes related to tourism altogether benefiting 455 persons.

7.59 The programmes implemented with central support during the period were organisation of tourism festivals, purchase of tents for providing tendend accommodation at Ponmudi, purchase of mountain cycles for use by the tourists in selected tourist centres and completion of the Transportation study of Guruvayur township by NATPAC. But another scheme for starting flying centres for tourists could not be implemented for want of permission from the Ministry of Civil Aviation, eventhough microlyte flying equipment for this purpose was procured. So also the construction of tourist lodge at Guruvayur could not be started due to difficulty in transferring the land.

7.60 Under 'wild life tourism' the Department of Forests could spend only 80% (35.81 lakhs) of the outlay (Rs.45 lakhs). some of the programmes implemented under this category,

include development of information centre and trekk path at Vazhachal, construction of animal cages and training wall in mini zoo at Kodanad and maintenance of snake park at Malampuzha. There was shortfall of expenditure under this item due to delay in getting sanction from Government for some of the projects.

7.61 At present the Kerala Tourism Development Corporation owns 34 units out of which 12 are hotel units and others motels, Yatrinivases, beer parlours etc. The bed capacity of these units shows a decline over the previous year on account of the fact that certain rooms were blocked for renovation. During the year 1993-94, five hotel units and one yatriniwas showed an occupancy ratio of more than 50 per cent. Altogether 12979 foreign tourists and 97,181 domestic tourists availed of the facilities in these units. This shows a fall in the number of foreign tourists by 8.5%. The domestic tourist flow to these hotels increased by 0.6% during the year under report.

7.62 The income of the Corporation stood at Rs.1187 lakhs during 1993-94 where as the expenditure amounted to Rs.990 lakhs only resulting in a net profit of Rs.197 lakhs. This shows a 137% increase in the profits (Rs.83 lakhs) of the Corporation over the previous year. In contrast to the previous year the operating expenses of the Corporation were higher (Rs.535.30 lakhs) than the administrative expenses (Rs.454.70 lakhs) mainly due to the introduction of beer parlours. The operational details of the Corporation are given in the Appendix No.7.25.

7.63 The working results of the Kerala Tourism Development Corporation Ltd. had been steadily improving over the last few years. The major factors that led to the improvement in working results are; the effective budgetary control, massive improvement works made in the

units, marketing efforts made by the Corporation, training to staff at all levels and introduction of a large number of restaurant and beer parlours all over the State. The above activities were initiated without adding to the permanent strength of employees. Simultaneously, qualified trainees were deployed to the extent possible and best use of existing man power was targeted. All these made it possible for the Corporation to reduce losses and make the Corporation profitable from 1993-94 onwards.

7.64 The Corporation has signed MOUs with the Taj Group and Oberoi Group and two joint sector companies, viz; Taj Kerala Hotels & Resorts Limited and Oberoi Kerala Motels & Resorts Limited have come into being. The Taj Kerala Hotels & Resorts Ltd. has already commissioned two hotels Taj Residency, a 4-star hotel at Kochi and Taj Garden Retreat, a modest backwater hotel at Kumarakom. They are in the process of completing Beach Resort at Varkala. Land has been acquired for a hotel at Kumily and Government have agreed to transfer suitable land for construction of a 5-Star hotel at Thiruvananthapuram. The Oberoi Kerala Hotels & Resorts Ltd. which was incorporated on the 1st of June 1994 has not so far started any project. But they are working out preliminary details on establishment of hotels at Thiruvananthapuram, Kochi, Kozhikkode and Pathiramanal. The Corporation and TRKL could mobilise Rs.8 crores for tourism development for which the budgetary support towards capital contribution was only 0.76 crore.

7.65 In addition to operating hotels, transport services, central reservation operations and promoting joint ventures, the Corporation also attempted tourism publicity by participating in international Tourism Marts like ITB, Berlin and London Tourism Mart and also other programmes organised by the World Tourism Organisation.

CHAPTER 8

EXPORT - IMPORT TRADE

India's Foreign Trade

8.1. As per the latest available statistics, India's overall balance of payments shows a surplus of \$ 4.5 billion strengthening the external payment position. The surplus in the capital account of \$ 4.9 billion has been partly off set by the current account deficit of \$ 0.4 billion. The foreign exchange reserves comprising foreign currency assets of RBI, gold and SDRs rose by 8.7 per cent from Rs. 47,287 crores in 1993-94 to Rs. 51,429 crores in 1994-95 (as on June). The invisible account also showed improvement during the first half of 1994-95 which has helped to partly offset the widening trade deficit. The trends in India's foreign exchange reserves are given in Table 8.1.

8.2. The world trade in 1994 is estimated at \$ 3,700 billion. With the establishment of World Trade Organisation (WTO) the world trade is expected to reach \$ 5,200 billion by 2000 A.D. Considering the country's prospects in agro-exports, textiles and the service sector etc. a sustained growth rate of at least 20 per cent of its export seems to be quite feasible which could carve out a share of 1.5 per cent of the world trade. Statistics available for the first half of 1994-95 show a reversal in the growth pattern of exports and imports compared to the corresponding period last year. Exports have grown at a much lower rate whereas imports have shown real surges widening the trade gap. Exports have grown by about 14 per cent during the first half of 1994-95 compared to 20 per cent during the corresponding period last year. However, from a virtual stagnation during 1993-94, imports have grown by 18.4 per cent during April - September 1995. A favourable trend in the imports is the spectacular growth in the non-oil imports, thanks to the sluggish world oil market and increased domestic production, signalling the revival of the industrial sector. The budget deficit, currently estimated at Rs. 3,402 crores is expected to reach Rs. 6,000 crores by the close of the current financial year. The trends in exports, imports and trade deficits are given in Table 8.2.

Trade through Kochi Port

8.3. The total traffic handled at the Kochi Port during the year 1993-94 recorded a fall of about 4.5 per cent from 79.78 lakh M.T. in 1992-93 to 76.20 lakh M.T. during 1993-94. Though the volume of exports went up substantially, a drastic fall in the imports has caused the volume of total trade to decline. The foreign cargo exported from the Port during 1993-94 recorded an increase by 22.2 per cent to 7.21 lakh M.T. from 5.93 lakh M.T. during the previous year whereas the foreign cargo imported has fallen by 10.7 per cent from 26 lakh M.T. in 1992-93 to 23.2 lakh M.T. in 1993-94. The details of cargo handled by Kochi Port from 1989-90 to 1993-94 are furnished in Table 8.3.

8.4. The total export traffic handled through Kochi Port during 1993-94 has shown an increase of 14 per cent as against a decline of 7 per cent in the import trade. Yet, this has led to a fall in the total trade due to its higher share of imports.

8.5. An analysis of the commodity-wise export through Kochi Port shows that in 1993-94 export of all items except tea have registered an increase over the previous year as shown in Table 8.4. It also gives the variations in the relative shares of major commodities in terms of their volume of exports in recent years.

8.6. The total value of foreign export during 1993-94 has registered a growth rate of 41 per cent over the previous year. The value of export of all items has increased during the period except for ginger which showed a decrease of about 7 per cent. The commodity wise value of foreign export through Kochi Port from 1986-87 to 1993-94 is furnished in Table 8.5.

8.7. The total imports have decreased during 1993-94 by 7.75 per cent over the previous year. The increase was reflected only in the case of newsprint and cashewnuts. The commodity-wise details of major imports from 1989-90 to 1993-94 are given in Table 8.6.

TABLE 8.1

Foreign Exchange Reserves: 1980-81 to 1994-95

(Rs. crores)

| Year | Foreign currency assets of RBI at the end of the year | Annual growth rate(%) | Foreign exchange reserves at the end of the year@ | Annual growth rate(%) |
|-------------|---|-----------------------|---|-----------------------|
| (1) | (2) | (3) | (4) | (5) |
| 1980-81 | 4822 | - | 5544 | - |
| 1981-82 | 3355 | -30.42 | 4024 | -27.41 |
| 1982-83 | 4265 | 27.12 | 4782 | 18.83 |
| 1983-84 | 5498 | 28.90 | 5972 | 24.88 |
| 1984-85 | 6817 | 23.99 | 7243 | 21.28 |
| 1985-86 | 7384 | 8.32 | 7820 | 7.96 |
| 1986-87 | 7645 | 3.53 | 8151 | 4.23 |
| 1987-88 | 7287 | -4.68 | 7687 | -5.69 |
| 1988-89 | 6605 | -9.36 | 7040 | -8.42 |
| 1989-90 | 5787 | -12.38 | 6251 | -11.21 |
| 1990-91 | 4388 | -24.17 | 11416 | 82.63 |
| 1991-92 | 14578 | 232.22 | 23850 | 108.92 |
| 1992-93 | 20140 | 38.15 | 30744 | 28.91 |
| 1993-94 (P) | 47287 | 134.79 | 60420 | 96.53 |
| 1994-95 (*) | 51429 | 8.76 | 64408 | 6.60 |

Notes: @ Includes foreign currency assets of RBI gold holdings of RBI and SDR holdings of Government

(P) Provisional

(*) As at the end of June 1994

** Effective from October 17, 1990 gold is revalued closer to international market price at the end of every month. For earlier periods gold is valued at official rate of Rs. 84.39 per 10 grams

Source: Reserve Bank of India

TABLE 8.2

India's Foreign Trade: 1980-81 to 1994-95

(Rs. in crores)

| Year | Export | Growth rate | Import | Growth rate | Balance of Trade |
|------------------------|--------|-------------|--------|-------------|------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1980-81 | 6711 | - | 12549 | - | -5838 |
| 1981-82 | 7806 | 16.32 | 13608 | 8.44 | -5802 |
| 1982-83 | 8803 | 12.77 | 14294 | 5.04 | -5491 |
| 1983-84 | 9771 | 10.99 | 15831 | 10.75 | -6060 |
| 1984-85 | 11744 | 20.19 | 17134 | 8.23 | -5390 |
| 1985-86 | 10895 | -7.23 | 19658 | 14.73 | -8763 |
| 1986-87 | 12452 | 14.29 | 20096 | 2.23 | -7644 |
| 1987-88 | 15674 | 25.87 | 22244 | 10.69 | -6570 |
| 1988-89 | 20232 | 29.08 | 28235 | 26.93 | -8003 |
| 1989-90 | 27658 | 36.70 | 35328 | 25.12 | -7735 |
| 1990-91 | 32553 | 17.69 | 43193 | 22.26 | -10640 |
| 1991-92 | 44042 | 35.29 | 47851 | 10.78 | -3809 |
| 1992-93 | 53688 | 21.90 | 63375 | 32.44 | -9572 |
| 1993-94P | 69547 | 29.50 | 72806 | 14.90 | -3259 |
| 1994-95P April-Oct. | 42994 | 14.00 | 46396 | 20.00 | -3402 |
| 1994-95F | 80000. | 15.00 | 86000 | 18.00 | -6000 |

Note : P - Provisional; F - Forecast
Source: (upto 1993-94) Reserve Bank of India

TABLE 8.3

Cargo Handled by Kochi Port: 1989-90 to 1993-94

(in Lakh M.T.)

| Commodity | Export | | | | | Import | | | | | Total | | | | |
|-----------|---------|------------------|-----------------|------------------|------------------|---------|-------------------|------------------|------------------|-------------------|---------|-------------------|------------------|-----------------|------------------|
| | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 |
| | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
| Total | 5.89 | 6.44 (9.34) | 5.94 (-7.76) | 5.21 (-12.29) | 5.44 (4.41) | 35.70 | 41.13 (15.21) | 38.67 (-5.98) | 42.63 (10.26) | 40.29 (-5.49) | 41.59 | 47.57 (14.37) | 44.61 (-6.22) | 47.84 (7.26) | 45.73 (-4.41) |
| Grain | 4.83 | 3.81 (-21.12) | 4.54 (19.16) | 5.92 (30.40) | 7.25 (22.47) | 24.83 | 21.37 (-13.93) | 25.66 (20.07) | 26.01 (1.36) | 23.22 (-10.73) | 29.66 | 25.18 (-15.10) | 30.20 (19.94) | 31.94 (5.26) | 30.47 (-4.60) |
| | 10.72 | 10.25 (-4.38) | 10.48 (2.26) | 11.13 (6.20) | 12.69 (14.02) | 60.53 | 62.50 (3.25) | 64.13 (12.60) | 68.64 (7.03) | 63.51 (-7.47) | 71.25 | 72.75 (2.11) | 74.81 (2.83) | 79.78 (6.64) | 76.20 (-4.49) |

Notes: Figures in brackets indicate percentage change over the previous year.
Source: Cochin Port Trust

TABLE 8.4

Commodity-wise Exports through Kochi Port 1990-91 to 1993-94

(Quantity in M.T)

| Commodity | 1990-91 | | 1991-92 | | 1992-93 | | | 1993-94 | | |
|------------------|----------|---------------------|----------|---------------------|----------|---------------------|-----------------|----------|---------------------|-----------------|
| | Quantity | Percentage to total | Quantity | Percentage to total | Quantity | Percentage to total | Growth rate (%) | Quantity | Percentage to total | Growth rate (%) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Raw Kernels | 9530 | 0.9 | 17906 | 1.7 | 32313 | 2.90 | 80.46 | 31408 | 2.4 | (-)2.8 |
| Foodstuffs | 49970 | 4.9 | 36630 | 3.5 | 31268 | 2.81 | (-)14.64 | 35271 | 2.7 | 12.8 |
| Mineral Products | 58598 | 5.7 | 65800 | 6.3 | 62227 | 5.59 | (-)5.43 | 81183 | 6.4 | 30.5 |
| Others | 24198 | 2.4 | 21639 | 2.1 | 22971 | 2.06 | 6.16 | 29710 | 2.4 | 29.3 |
| Sea | 35976 | 3.5 | 29710 | 2.8 | 28266 | 2.54 | (-)4.86 | 48395 | 3.9 | 71.2 |
| Sea | 35892 | 3.5 | 42008 | 4.0 | 45761 | 4.11 | 8.93 | 60330 | 4.7 | 31.8 |
| Miscellaneous* | 810822 | 79.1 | 834038 | 79.6 | 890778 | 80.00 | 6.80 | 982781 | 77.5 | 10.3 |
| Total | 1024986 | 100.0 | 1047731 | 100.0 | 1113584 | 100.00 | 6.29 | 1269078 | 100.0 | 14.0 |

* Includes P.O.L.
Source: Cochin Port Trust

TABLE 8.5

Commodity-wise Value of Foreign Export Trade through Kochi Port, 1986-87 to 1993-94
(Rs. Crores)

| Commodity | 1986-87 | 1987-88 | 1988-89 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | Annual Gr. Rate(%) | | |
|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|-------------|--------------|
| | | | | | | | | 1993-94 | 1992-93 | 1993-94 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Tea | 37.10 | 33.35 | 43.46 | 32.38 | 30.02 | 42.38 | 94.43 | 118.10 | 122.82 | 25.07 |
| Pepper | 191.65 | 233.65 | 156.23 | 148.00 | 99.97 | 72.49 | 69.72 | 168.00 | -3.82 | 140.84 |
| Cardamom | 3.99 | 0.56 | 1.41 | 0.90 | 2.13 | 4.00 | 0.20 | 10.10 | -95.00 | 4950.00 |
| Cashew Kernels | 302.81 | 278.42 | 251.23 | 334.58 | 391.83 | 432.82 | 383.82 | 451.00 | -11.32 | 17.50 |
| Coffee | 112.84 | 111.35 | 127.05 | 136.35 | 79.70 | 118.60 | 131.75 | 184.17 | 11.09 | 39.79 |
| Ginger | 2.47 | 3.84 | 7.83 | 9.42 | 7.85 | 12.69 | 9.01 | 8.36 | -2.90 | -7.21 |
| Sea foods | 167.11 | 187.47 | 224.15 | 236.72 | 317.44 | 443.02 | 459.28 | 705.50 | 3.68 | 53.61 |
| Coir products | 33.10 | 20.97 | 20.94 | 23.95 | 28.25 | 29.04 | 43.06 | 69.05 | 4.83 | 60.36 |
| Misc. | 327.77 | 164.10 | 248.53 | 295.28 | 357.31 | 492.97 | 566.46 | 767.27 | 14.91 | 35.45 |
| Total | 1178.84 | 1033.71 | 1080.83 | 1217.58 | 1314.50 | 1648.01 | 1757.73 | 2481.55 | 6.66 | 41.18 |

Source : Cochin Port Trust

8.8. An exhaustive list of commodities exported through Kochi Port during 1993-94 is given in Appendix 8.1.

Marine Products

8.9. Export of marine products from India has registered a growth rate of 17 per cent in terms of quantity and 42 per cent in terms of value during 1993-94. It was 2,43,960 M.T. in 1993-94 valued at Rs.2,504 crores as against 2,09,025 M.T. valued at Rs.1,769 crores during 1992-93.

8.10. The percentage share of Kerala in terms of quantity exported has improved significantly to 26 per cent in 1993-94 from 23 per cent during the previous year. In terms of value realisation this corresponds to a two per cent

improvement from 23 per cent in 1992-93 to 25 per cent during 1993-94. The quantity and value of export of marine products from India and Kerala from 1980-81 to 1993-94 are furnished in Table 8.7.

8.11. Although the export of marine products have shown an impressive growth on all India basis, the growth of export through Kochi Port has not been quite significant. A number of entrepreneurs have come forward to establish shrimp and fish culturing units and to set up processing plants because of the new liberalised economic policy of the Government of India. Such developments improved the exports from Andhra Pradesh and Tamil Nadu. Scientific fish/shrimp farming has yet to gather momentum in Kerala.

TABLE 8.6

Commodity-wise Imports through Kochi Port : 1989-90 to 1993-94

(Quantity in M.T.)

| Commodity | 1989-90 | | 1990-91 | | 1991-92 | | | 1992-93 | | | 1993-94 | | |
|-----------------------------|----------|------------------|----------|------------------|----------|------------------|-----------------|----------|------------------|-----------------|----------|------------------|-----------------|
| | Quantity | percentage share | Quantity | Percentage share | Quantity | Percentage share | Growth rate (%) | Quantity | Percentage share | Growth rate (%) | Quantity | Percentage share | Growth rate (%) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| Fertilizers & Raw materials | 889429 | 14.7 | 864431 | 13.8 | 969498 | 15.1 | 12.2 | 936492 | 13.6 | -3.40 | 743525 | 11.7 | - 21.5 |
| Food grains | 42881 | 0.7 | 27308 | 0.5 | 16463 | 0.3 | -39.7 | 87482 | 1.3 | 431.39 | 5658 | 0.1 | - 93.5 |
| Iron, Steel & Machinery | 20772 | 0.4 | 6549 | 0.1 | 2058 | .. | -68.6 | 6737 | 0.1 | 227.60 | 4446 | -- | - 34.0 |
| News print | 13060 | 0.2 | 19819 | 0.3 | 20134 | 0.3 | 1.6 | 9748 | 0.1 | -51.58 | 11324 | 0.2 | 16.2 |
| Cashewnuts | 21060 | 0.3 | 4809 | 0.1 | 1361 | .. | -71.7 | 11358 | 0.2 | 734.50 | 31158 | 0.5 | 174.3 |
| Misc. * | 5065957 | 83.7 | 5327401 | 85.2 | 5423870 | 84.3 | 1.8 | 5812492 | 84.7 | 7.17 | 5554914 | 87.5 | - 4.5 |
| Total | 6053159 | 100.0 | 6250317 | 100.0 | 6433384 | 100.0 | 2.9 | 6864309 | 100.0 | 6.70 | 6351025 | 100.0 | - 7.5 |

* Includes P.O.L

Source : Cochin Port Trust

TABLE 8.7

*Exports of Marine Products: Kerala and India - 1980-81 to 1993-94**(Qty. in M.T., Value in Rs. lakhs)*

| Year | India | | Kerala | | Share of Kerala(%) | |
|---------|----------|--------|----------|-------|--------------------|-------|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1980-81 | 75591 | 23484 | 29148 | 9534 | 39 | 41 |
| 1981-82 | 70105 | 28601 | 32006 | 12513 | 46 | 44 |
| 1982-83 | 78175 | 36136 | 32525 | 14147 | 42 | 39 |
| 1983-84 | 92691 | 37302 | 32840 | 14086 | 35 | 38 |
| 1984-85 | 87187 | 38429 | 31570 | 14798 | 36 | 39 |
| 1985-86 | 83651 | 39800 | 29580 | 13808 | 35 | 35 |
| 1986-87 | 85843 | 46067 | 33906 | 16457 | 39 | 36 |
| 1987-88 | 97179 | 53120 | 35576 | 18394 | 37 | 35 |
| 1988-89 | 99777 | 59785 | 45614 | 22131 | 46 | 37 |
| 1989-90 | 110843 | 63499 | 47245 | 24094 | 43 | 38 |
| 1990-91 | 139419 | 89337 | 50997 | 31379 | 37 | 35 |
| 1991-92 | 171820 | 137589 | 58743 | 44447 | 34 | 32 |
| 1992-93 | 209025 | 176856 | 49094 | 41425 | 23 | 23 |
| 1993-94 | 243960 | 250362 | 63809 | 62153 | 26 | 25 |

Source: The Marine Products Export Development Authority, Kochi

8.12. India exports marine products to over 59 countries all over the world. Japan continues to be the major market for India's marine products accounting for 18.4 per cent in terms of quantity and 47.4 per cent in terms of value of total exports during 1993-94. The average unit value realised was Rs. 102.62 per kg. during 1993-94 as against Rs. 84.61 per kg. during 1992- 93.

8.13. An analysis of the pattern of marine products export from India during 1993-94 shows that about 35 per cent of the quantity exported was frozen shrimp which accounted for about 70 per cent of the export earnings from the marine products. The pattern of marine products export from India from 1985-86 to 1993-94 is given in Table 8.8.

Export of Spices

8.14. India is a major producer of spices in the world. Among the Indian states, Kerala occupies the prime role in spices production and export. Pepper, cardamom, ginger and turmeric are the important spices grown in Kerala. A major share of spices produced in Kerala caters to the export demand. In the case of cardamom, till mid-eighties Kerala had substantial exports, but since it has declined considerably due to severe competition from Guatemala and high domestic demand. The total export earnings from spices during 1993-94 has been 540.12 crores of which Kerala's share is estimated to be around Rs.262 crores.

TABLE 8.8

Pattern of Marine Products Export from India (1985-86 to 1993-94)

(Quantity in M.T., Value in Rs. Lakhs)

| Items | 1985-86 | | 1986-87 | | 1987-88 | | 1988-89 | | 1989-90 | | 1990-91 | | 1991-92 | | 1992-93 | | 1993-94 | |
|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) |
| Frozen shrimp | 50349 (60.1) | 32981 (82.9) | 49203 (57.3) | 37793 (82.0) | 55736 (57.4) | 42578 (80.1) | 56835 (57.0) | 47033 (78.7) | 57819 (52.2) | 46331 (73.0) | 62395 (44.8) | 66333 (74.3) | 76107 (44.3) | 97616 (70.9) | 74051 (35.4) | 117683 (66.5) | 86541 (35.5) | 177073 (70.7) |
| Frozen frog- legs | 1746 (2.1) | 743 (1.9) | 453 (0.5) | 236 (0.5) | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Frozen Lobster- tails | 1650 (2.0) | 1445 (3.6) | 1132 (1.3) | 1432 (3.1) | 1863 (1.9) | 2473 (4.7) | 1663 (1.7) | 2360 (3.9) | 2068 (1.9) | 3363 (5.3) | 1600 (1.1) | 3430 (3.7) | 1629 (1.0) | 5530 (4.0) | 1613 (0.8) | 4334 (2.5) | 1455 (0.6) | 4268 (1.7) |
| Frozen Cuttle fish/fillets | 5010 (6.0) | 1080 (2.7) | 4694 (5.5) | 1396 (3.0) | 9195 (9.5) | 2231 (4.2) | 8262 (8.3) | 2344 (3.9) | 14158 (12.8) | 4731 (7.5) | 11596 (8.3) | 4529 (5.1) | 12437 (7.2) | 6091 (4.4) | 18981 (9.1) | 11888 (6.7) | 18998 (7.8) | 13818 (5.5) |
| Frozen Squids | 4619 (5.5) | 552 (1.4) | 9739 (11.3) | 1727 (3.7) | 7621 (7.8) | 1373 (2.6) | 16374 (16.4) | 3809 (6.4) | 11944 (10.8) | 2848 (4.5) | 16667 (12.0) | 4499 (5.0) | 25528 (14.9) | 10938 (7.9) | 30364 (14.5) | 15190 (8.6) | 34741 (14.2) | 19247 (7.7) |
| Fresh/Frozen fish | 10581 (12.6) | 1715 (4.3) | 13136 (15.3) | 2229 (4.9) | 14904 (15.3) | 3023 (5.7) | 11234 (11.2) | 2845 (4.8) | 21227 (19.1) | 4820 (7.6) | 42340 (30.3) | 9082 (10.2) | 49119 (28.6) | 14266 (10.5) | 75374 (36.1) | 23358 (13.2) | 94022 (38.5) | 29599 (11.8) |
| Live items | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 412 (0.4) | 74 (0.1) | 655 (0.5) | 162 (0.2) | 595 (0.3) | 198 (0.2) | 573 (0.3) | 350 (0.2) | 744 (0.3) | 671 (0.3) |
| Dried items | 8455 (10.2) | 1078 (2.7) | 5624 (6.6) | 1048 (2.4) | 5527 (5.7) | 1150 (2.2) | 4007 (4.0) | 1039 (1.7) | 1379 (1.2) | 747 (1.2) | 1280 (0.9) | 441 (0.5) | 2848 (1.6) | 1303 (0.9) | 4209 (2.0) | 1739 (1.0) | 2602 (1.1) | 1627 (0.6) |
| Misc. items | 1241 (1.5) | 204 (0.5) | 1862 (2.2) | 206 (0.4) | 2333 (2.4) | 292 (0.5) | 1402 (1.4) | 355 (0.6) | 1836 (1.6) | 585 (0.8) | 2886 (2.1) | 861 (1.0) | 3557 (2.1) | 1647 (1.2) | 3860 (1.8) | 2319 (1.3) | 4857 (2.0) | 4059 (1.7) |
| Total | 83651 (100.0) | 39798 (100.0) | 85843 (100.0) | 46067 (100.0) | 97179 (100.0) | 53120 (100.0) | 99777 (100.0) | 59785 (100.0) | 110843 (100.0) | 63499 (100.0) | 139419 (100.0) | 89337 (100.0) | 171820 (100.0) | 137589 (100.0) | 209025 (100.0) | 176856 (100.0) | 243960 (100.0) | 250362 (100.0) |

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Note : Figures in brackets shows the percentage share

Source: The Marine Products Export Development Authority, Kochi

Pepper

8.15. Kerala accounts for about 97 per cent of the total production of pepper in India. Almost the entire export demand for pepper is met by the State. Export of pepper during 1993-94 has substantially increased breaking all the previous records. Export of pepper from India in 1993-94 was of the order of 46,650 M.T. valued Rs.179.67 crores as against 23,752 M.T. valued at Rs. 78.31 crores during the previous year. The exports from Kochi Port during 1993-94 was 43,845 M.T. valued Rs.169.33 crores compared to 21,985 M.T. valued at Rs. 72.87 crores during 1992-93. Kerala accounts for almost 94 per cent of the total quantity and value of pepper exported from India.

8.16. The quantity and value of pepper exported from the country from 1984-85 to 1993-94 and its unit value are furnished in Table 8.9.

TABLE 8.9

Export of Black Pepper from India: 1984-85 to 1993-94

| Year | Qty. (MT) | Value (Rs. crores) | Unit Value (Rs/Kg) |
|---------|--------------|-----------------------|-----------------------|
| (1) | (2) | (3) | (4) |
| 1984-85 | 25420 | 60.54 | 23.81 |
| 1985-86 | 37620 | 172.48 | 45.85 |
| 1986-87 | 37083 | 200.33 | 54.02 |
| 1987-88 | 41011 | 240.58 | 58.66 |
| 1988-89 | 36981 | 164.63 | 44.52 |
| 1989-90 | 34482 | 152.97 | 44.36 |
| 1990-91 | 29985 | 102.40 | 32.15 |
| 1991-92 | 20565 | 74.32 | 36.08 |
| 1992-93 | 23752 | 78.31 | 32.97 |
| 1993-94 | 46650 | 179.61 | 38.50 |

Source: Spices Board, Kochi.

8.17. According to Spices Board, the low production in the major producing countries like Indonesia, Brazil and Malaysia has led to scarce conditions in the international market. India with a normal production and substantial carry over stock from previous years could take advantage of the situation.

Small Cardamom

8.18. India's share in the world market for small cardamom has been on the decline. In the mid seventies the share of Indian cardamom was around 50 per cent which got gradually declined to a mere 3 per cent in recent years.

8.19. Kerala accounts for about 53 per cent of the area under small cardamom and 67 per cent of the total production in the country. Estimated export of small cardamom from Kerala in the last 3 years averages 80 per cent of the total export from India. During 1993-94, export of small cardamom from India has been 342 M.T. valued at Rs.13.86 crores compared to 190 M.T. valued at Rs.7.51 crores in 1992-93. The production of cardamom at 6,600 M.T. in 1993-94 was an all-time record. The increased supply under stagnant demand conditions has brought down the domestic price of cardamom from Rs.465 per kg. in 1992-93 to Rs.340 per kg. in 1993-94. Even this price was higher than the Guatemalan price in the international market.

8.20. Details of export of small cardamom from India and Kerala and the share of Kerala are furnished for the period from 1982-83 to 1993-94 in Table 8.10.

Ginger

8.21. India is the largest producer of ginger accounting for over 30 per cent of the world production. China, Bangladesh, Nigeria, Indonesia, Australia and Sri Lanka are the other major producers.

8.22. The exportable varieties, known by the trade name as Cochin Ginger, are mainly produced in Kerala. Ginger export from the country has shown a fluctuating trend during the last five years. The export of ginger from India has increased to 17,150 M.T. valued at Rs. 21.59 crores during 1993-94 from 9,517 M.T. valued at Rs. 16.55 crores in the previous year. The share of Kerala is estimated as 15.6 per cent in terms of quantity and 38.9 per cent in terms of value in 1993-94. The trends in export of ginger from 1984-85 to 1993-94 are given in Table 8.11.

TABLE 8.10

Export of Small Cardamom : Kerala & India, 1982-83 to 1993-94

(Quantity in M.T. and value in Rs. crores)

| Year | Kerala | | India | | Share of Kerala(%) | |
|---------|--------|-------|-------|-------|--------------------|-------|
| | Qty | Value | Qty | Value | Qty | Value |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1982-83 | 844 | 13.75 | 1032 | 16.37 | 82.00 | 84.00 |
| 1983-84 | 194 | 4.10 | 258 | 5.44 | 75.00 | 75.00 |
| 1984-85 | 2170 | 59.05 | 2383 | 64.81 | 91.00 | 91.00 |
| 1985-86 | 2994 | 49.20 | 3272 | 53.46 | 92.00 | 90.00 |
| 1986-87 | 1268 | 16.46 | 1447 | 18.50 | 88.00 | 89.00 |
| 1987-88 | 212 | 2.67 | 270 | 3.40 | 79.00 | 79.00 |
| 1988-89 | 606 | 7.88 | 727 | 10.37 | 80.00 | 80.00 |
| 1989-90 | 127 | 2.37 | 180 | 3.06 | 74.00 | 74.00 |
| 1990-91 | 320 | 8.69 | 400 | 10.87 | 80.00 | 79.94 |
| 1991-92 | 435 | 12.45 | 544 | 15.57 | 79.96 | 79.96 |
| 1992-93 | 147 | 5.81 | 190 | 7.51 | 77.37 | 77.36 |
| 1993-94 | 274 | 11.11 | 342 | 13.86 | 87.03 | 80.16 |

Source : Spices Board, Kochi

TABLE 8.11

Export of Dry Ginger from India, 1984-85 to 1993-94

(Qty in M.T., Value Rs Crores)

| Year | Quantity | Value |
|---------|----------|-------|
| (1) | (2) | (3) |
| 1984-85 | 7330 | 18.73 |
| 1985-86 | 6820 | 10.89 |
| 1986-87 | 4843 | 5.71 |
| 1987-88 | 2628 | 4.89 |
| 1988-89 | 6368 | 9.40 |
| 1989-90 | 9037 | 12.68 |
| 1990-91 | 6555 | 11.76 |
| 1991-92 | 14259 | 21.88 |
| 1992-93 | 9517 | 16.55 |
| 1993-94 | 17150 | 21.59 |

Source: Spices Board, Kochi

Turmeric

8.23. India is the largest producer and supplier of turmeric in the world. China, Peru and Thailand are the other major producers. During the last five years export of turmeric was in the

range of 17,000 M.T. to 25,000 M.T. However, export earnings have increased from Rs. 16.15 crores in 1989-90 to Rs. 52.00 crores in 1993-94. Iran, UAE, Japan, U.K., USA and Singapore are the major markets for Indian turmeric.

8.24. Kerala accounts for about two per cent of the country's production of turmeric. A significant share of this is the Alleppey Finger Turmeric, which has got a special preference in the international market. The export earnings from turmeric during 1993-94 was of the order of Rs.52 crores as against Rs. 48.36 crores during the previous year. The quantity of export from India has also increased to 25,250 M.T. during 1993-94 from 19,665 M.T. during the previous year.

8.25. The share of Kerala in terms of quantity exported during 1993-94 was marginally lower at 11.81 per cent as against 12.10 per cent during 1992-93. In value terms, the share was 15.65 per cent and 16.65 per cent respectively during the corresponding periods. The

trends in the export of turmeric from India and their respective value realisation from 1983-84 are furnished in Table 8.12.

TABLE 8.12

Export of Turmeric from India 1983-84 to 1993-94

| Year (1) | (Qty in M.T.; Value Rs. Crores) | |
|-------------|---------------------------------|--------------|
| | Quantity (2) | Value (3) |
| 1983-84 | 10890 | 11.06 |
| 1984-85 | 12800 | 17.16 |
| 1985-86 | 8560 | 12.09 |
| 1986-87 | 19530 | 19.18 |
| 1987-88 | 8747 | 9.23 |
| 1988-89 | 18968 | 19.39 |
| 1989-90 | 16860 | 16.15 |
| 1990-91 | 13624 | 15.48 |
| 1991-92 | 19661 | 37.76 |
| 1992-93 | 19665 | 48.36 |
| 1993-94 | 25250 | 52.00 |

Source : Spices Board, Kochi

Spice Oils and Oleoresins

8.26. India has a unique position in the export of spice oils and oleoresins. Their export has shown an annual average growth rate of 15 per cent in terms of quantity and 41 per cent in terms of value over the last 5 years. In absolute terms, export has increased from 717 M.T. valued at Rs. 22.86 crores in 1989-90 to 1,270 M.T. valued at Rs. 69 crores in 1993-94. The major spice oils and oleoresins exported from Kerala are that of pepper, ginger and turmeric. During 1993-94, 1,065 M.T. of spice oils and oleoresins valued Rs.55.11 crores have been exported through Kochi Port, which is 84 per cent in terms of quantity and 80 per cent in terms of the value of the total exports from India.

Cashew

8.27. With more than 20 countries cultivating cashew and about half of them processing and exporting it, cashew has emerged as a major commodity of international trade. The cashew industry has emerged as one of the major agro-based export oriented industries of the

nation. The foreign exchange earned by the cashew sector during 1993-94 was over Rs. 1044 crores, constituting 1.5 per cent of the total export earnings of the country. Moreover, cashew was the second largest foreign exchange earner among the agricultural products exported from India, next only to rice. The cashew industry employs more than 5 lakh workers of which more than 3 lakh are in the processing and exporting sectors and the rest in farming sector. Over 95 per cent of the workers in the processing and exporting sectors are women, that too from the lower strata of the society.

8.28. Till recently Kerala had a near monopoly in cashew production, processing and exports. But now Kerala accounts for only about 40 per cent of the national production of raw nuts. At present there are only 285 licensed processing units in Kerala as against the all India figure of 863 cashew factories. Growing pressure on land, stringent land ceiling laws, unconducive policies followed in the raw nut trade and processing are advocated as some of the reasons which slackened the growth of this industry in the State.

8.29. Consequent on the spread of cashew cultivation to non-traditional areas in India and setting up of a good number of factories and processing units in other states, cashew industry is no more a monopoly of any state. Now it has gained the status of a national industry. The state-wise production figures of raw cashewnut from 1989-90 to 1993-94 are furnished in the following table.

8.30. Indian cashew has a large domestic as well as international market. It is being exported to more than 50 countries. The export of cashew kernels from India showed an all time high, both in terms of quantity and value during 1993-94. During this period, the export was 68,968 M.T. of cashew kernels valued at Rs 1,041.53 crores as against 53,399 M.T. valued at Rs. 744.80 crores during the previous year. Traditional markets absorbed more cashew kernels from India during 1993-94. Significant improvements were recorded in respect of U.S.A., Netherlands, Japan, U.K., Australia, Hong Kong and U.A.E. The export trends of cashew kernels from 1985-86 onwards are furnished in the following table.

TABLE 8.13

State-wise Production of Raw Cashewnut 1989-90 to 1993-94

(M.T.)

| State | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 |
|----------------|---------------|---------------|---------------|---------------|---------------|
| Kerala | 139500 | 142100 | 143200 | 151600 | 140200 |
| Karnataka | 24650 | 25770 | 26750 | 31260 | 31540 |
| Andhra Pradesh | 36580 | 37770 | 40360 | 44880 | 46570 |
| Tamil Nadu | 12430 | 12470 | 12710 | 19190 | 19200 |
| Goa | 13210 | 14100 | 14490 | 33810 | 34590 |
| Maharashtra | 27130 | 29510 | 31960 | 25590 | 28280 |
| Orissa | 28600 | 29100 | 31840 | 39060 | 43420 |
| West Bengal | 3170 | 3440 | 3660 | 3660 | 3990 |
| Pondicherry | 270 | 280 | 290 | 290 | 300 |
| Tripura | 50 | 50 | 50 | 50 | 60 |
| Total | 285590 | 294590 | 305310 | 349390 | 348150 |

Source: Directorate of Cashew Development

TABLE 8.14

Export of Cashew Kernels: Kerala and India (1985-86 to 1993-94)

(Quantity - M.T.; Value Rs. Crores)

| Year | Kerala | | India | | Kerala's Share | |
|----------|----------|--------|----------|---------|----------------|-------|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1985-86 | 31904 | 196.16 | 37097 | 225.11 | 90.8 | 91.1 |
| 1986-87 | 37508 | 302.81 | 43004 | 327.55 | 89.8 | 90.6 |
| 1987-88 | 33163 | 290.36 | 35971 | 311.29 | 89.8 | 88.9 |
| 1988-89 | 30234 | 245.74 | 33994 | 273.93 | 88.9 | 88.9 |
| 1989-90 | 41651 | 334.58 | 44858 | 365.07 | 92.8 | 92.8 |
| 1990-91 | 44370 | 391.83 | 49874 | 442.24 | 88.5 | 88.6 |
| 1991-92 | 33545* | 432.82 | 47738 | 669.09 | 70.3 | 64.7 |
| 1992-93 | 26981 | 385.49 | 53399 | 744.80 | 50.5 | 51.8 |
| 1993-94P | 30701* | 454.96 | 68968 | 1041.53 | 44.5 | 43.7 |

P: Provisional; * - Exports through the Cochin Sea Port

Source : (i) Cashew Export Promotion Council

(ii) Cochin Port Trust

8.31. Because of the poor intake by South Korea, the export performance was not encouraging for cashewnut shell liquid during 1993-94. As against an export of 4,258 M.T. valued at Rs. 3.81 crores in 1992-93, only 3,482 M.T. of

cashewnut shell liquid valued at Rs. 2.8 crore could be exported in 1993-94. The export details of cashewnut shell liquid from 1982-83 to 1993-94 are given in the following table.

TABLE 8.15

*Export of Cashewnut Shell Liquid: Kerala and India
1982-83 to 1993-94)*

(Quantity in M.T., Value in Rs. Crores)

| Year | Kerala | | India | |
|-----------|----------|-------|----------|-------|
| | Quantity | Value | Quantity | Value |
| (1) | (2) | (3) | (4) | (5) |
| 1982-83 | 4260 | 1.15 | 5903 | 1.74 |
| 1983-84 | 1446 | 0.55 | 3385 | 1.36 |
| 1984-85 | 2662 | 1.13 | 3411 | 1.81 |
| 1985-86 | 1574 | 0.83 | 2180 | 1.35 |
| 1986-87 | 1888 | 1.00 | 2716 | 1.48 |
| 1987-88 | 5372 | 2.42 | 6534 | 5.03 |
| 1988-89 | 915 | 0.63 | 3034 | 2.20 |
| 1989-90 | 1919 | 1.61 | 3014 | 2.56 |
| 1990-91 | 2855 | 2.01 | 5658 | 5.56 |
| 1991-92 | 2756 | .. | 4542 | 4.02 |
| 1992-93 | 2628 | 2.20 | 4258 | 3.81 |
| 1993-94 P | 2432 * | 1.77 | 3482 | 2.80 |

P - Provisional ; * - Through Cochin Port

Source : (1) Cashew Export Promotion Council

(2) Cochin Port Trust

8.32. The import of raw nuts amounted to 1,90,157 M.T. valued at Rs. 483 crores during 1993-94 as against 1,34,985 M.T. valued at Rs. 376 crores during the previous year showing an increase of nearly 55,000 M.T. valued at Rs. 106 crores. The import statistics of raw nuts from 1982-83 to 1993-94 are given in the following table.

8.33. Growing supply of raw nuts, suspension of monopoly procurement for raw nuts by the Government of Kerala, renovations in packaging, quality control of raw nuts and kernels, improvements in shipping operations, absence of labour unrest in cashew factories and liberalised

policies of the Government of India seem to be some of the encouraging factors contributed to the good export performance during 1993-94 in this sector.

Tea

8.34. Tea has an important place among the agro-based exports from India. The year 1993-94 has witnessed a depressed situation for tea. While the price decline has been a global phenomenon, it has been much sharper in South India in comparison to other regions. The exports during 1992-93 and 1993-94 were below normal. The bumper national crop during 1993-94 has

TABLE 8.16

Import of Raw Cashewnut: Kerala & India
1982-83 to 1993-94

(Quantity in M.T., Value in Rs. Crores)

| Year | Kerala | | India | |
|----------|----------|-------|----------|--------|
| | Quantity | Value | Quantity | Value |
| (1) | (2) | (3) | (4) | (5) |
| 1982-83 | 886 | 0.76 | 896 | 0.77 |
| 1983-84 | 17736 | 14.60 | 26877 | 22.12 |
| 1984-85 | 9813 | 10.78 | 33215 | 36.49 |
| 1985-86 | 6959 | 07.73 | 21945 | 24.36 |
| 1986-87 | 26529 | 37.57 | 49149 | 71.16 |
| 1987-88 | 30499 | 48.54 | 42609 | 64.37 |
| 1988-89 | 21847 | 30.57 | 45150 | 61.37 |
| 1989-90 | 21060 | 29.07 | 52474 | 76.66 |
| 1990-91 | 4809 | .. | 82639 | 134.00 |
| 1991-92 | 1361 | .. | 106080 | 266.68 |
| 1992-93 | 11051 | 39.05 | 134985 | 376.33 |
| 1993-94P | 20821* | 52.56 | 190157 | 482.70 |

P - Provisional ; * - Imports through Cochin Sea Port

Source : Cashew Export Promotion Council

led to a carry over stock causing the price crash.

8.35. During 1993-94 India exported 1,61,170 M.T. of tea valued at Rs.1,080.10 crores as against 1,80,690 M.T. valued at Rs.1,058.70 crores during the previous year. The quantity of tea exported through Kochi Port has decreased to 31,408 M.T. in 1993-94 from 32,313 M.T. during the previous year. However, the realisation of value has increased to Rs.118 crores in 1993-94 from Rs. 94 crores during the previous year.

8.36. The export details of tea from Kerala and India from 1987-88 are furnished in Table 8.17.

Coffee

8.37. Coffee is produced by almost 60 countries of the world and India's share is only three per cent. The largest coffee producer in the world is Brazil. Coffee is also grown in Colombia, Guatemala, Kenya, Tanzania, Indonesia, Thailand and Vietnam. The scarcity of coffee in international market provides an opportunity to capture market share by marketing the surplus production. Recently, the Central Government have decided to limit the quantum of export of coffee from India.

TABLE 8.17

Export of Tea - Kerala and India

(Qty. in M.T., value in Rs. lakhs)

| Year | Kerala | | India | |
|-----------------------|----------|-------|----------|--------|
| | Quantity | Value | Quantity | Value |
| (1) | (2) | (3) | (4) | (5) |
| 1987-88 | 15371 | 3335 | 202691 | 63443 |
| 1988-89 | 22884 | 4346 | 204808 | 64187 |
| 1989-90 | 12347 | 3238 | 211762 | 91482 |
| 1990-91 | 9530 | 3002 | 199165 | 107110 |
| 1991-92 | 17906 | 4238 | 216449 | 121227 |
| 1992-93 | 32313* | 9443 | 180690 | 105870 |
| 1993-94@ | 31408* | 11810 | 161170 | 108010 |
| 1994-95@ (Apr-Oct) | N.A. | N.A. | 86810 | 58762 |

@ - Estimated ; N.A. - Not available

* - Through Kochi Port

Sources: (i) Tea Board
(ii) Cochin Port Trust

8.38. During 1993-94, 60,330 M.T. of coffee valued at Rs. 184.17 crores have been exported through Kochi Port as against 45,761 M.T. valued at Rs. 131.75 crores exported during the previous year. The trends in the export of coffee from 1985-86 to 1993-94 from India and Kerala are furnished in the following table.

Coir

8.39. India and Sri Lanka are the largest producers of this natural fibre. India leads in the export of coir yarn and value added coir products such as mats, mattings and rugs and carpets. Besides India, some member countries of European Community also manufacture coir products on powerlooms in their country using coir yarn imported from India.

8.40. Export of coir and coir products from India during the year 1993-94 was of the order of 37,951 M.T. valued at Rs.129.37 crores

as against 32,354 M.T. valued at Rs. 95.95 crores during the previous year. This corresponds to a growth rate of 17 per cent in terms of quantity and 35 per cent in terms of value. The item wise details of export of coir from India from 1991-92 to 1993-94 are given in the following table.

8.41. An item-wise analysis of export of coir products shows that there was an increase in the export of all the items in terms of both quantity and value during 1993-94, except for coir fibre and curled coir. In the case of coir rope, the increase during the year was as high as 416 per cent in terms of quantity and 357 per cent in terms of value. One of the major items viz., coir mat has shown an increase of 16 per cent in terms quantity exported and the value realisation registered a growth rate of about 95 per cent.

8.42. Coir is exported to about 55 coun-

TABLE 8.18

Export of Coffee: (1985-86 to 1993-94)

(Qty. in M.T., Value in Rs. lakhs)

| Year | Kerala@ | | India | |
|---------|----------|-------|----------|-------|
| | Quantity | Value | Quantity | Value |
| (1) | (2) | (3) | (4) | (5) |
| 1985-86 | 44570 | 12342 | 99298 | 27498 |
| 1986-87 | 31056 | 1284 | 86666 | 36344 |
| 1987-88 | 47058 | 11135 | 92533 | 26010 |
| 1988-89 | 41248 | 12705 | 98226 | 33772 |
| 1989-90 | 57852 | 13635 | 134052 | 36092 |
| 1990-91 | 35892 | 7970 | 100110 | 27889 |
| 1991-92 | 42008 | 11860 | N.A. | N.A. |
| 1992-93 | 45761 | 13175 | N.A. | N.A. |
| 1993-94 | 60330 | 18417 | N.A. | N.A. |

Note: @ Export through Kochi Port

Source: (i) Coffee Board (ii) Cochin Port Trust

tries all over the world. An analysis shows that USA was the market leader during 1993-94 with 9.25 percentage share in terms quantity and 3.41 percentage in terms of value. The second place goes to U.K followed by Germany and Italy. The details of the quantity exported, value realised with the respective share of different countries during 1993-94 are furnished in Table 8.20.

8.43. Twenty five countries imported coir yarn from India during 1993-94. The major markets of coir yarn with their respective ranks are given in Table 8.21 and trade division-wise export of coir yarn from India is furnished in Appendix 8.2.

8.44. Coir mats constituted the major item of coir products exported from India during 1993-94. Nearly 60 countries have imported coir mats during 1993-94. Major markets with their ranking for 1991-92 to 1993-94 are fur-

nished in Table 8.22 and trade division-wise export of coir mats is furnished in Appendix 8.3.

8.45. Coir mattings is the third important item of coir products exported from India. Export of coir mattings during 1993-94 recorded an increase of 15 per cent in terms of quantity and 31 per cent in terms of value. About 34 countries in the world imported coir mattings from India during 1993-94. The leading markets for coir mattings along with the ranking are given in Table 8.23. Trade division-wise export of coir mattings is furnished in Appendix 8.4 and that of coir rugs and carpets in Appendix 8.5.

Export Performance of Cochin Export Processing Zone

8.46. Started with an export of Rs.94 lakhs in 1986-87, CEPZ has steadily grown and made an export to the tune of Rs.83.81 crores during 1993-94. It is a net foreign exchange earner of

TABLE 8.19

Export of Coir and Coir Products: India 1991-92 to 1993-94

(Qty. in M.T., Value in Rs. lakhs)

| Items | 1991-92 | | 1992-93 | | 1993-94 | | Growth Rate over previous year (%) | | | |
|---------------------|--------------|----------------|--------------|---------------|--------------|----------------|------------------------------------|--------------|--------------|--------------|
| | Quantity | Value | Quantity | Value | Quantity | Value | 1992-93 | | 1993-94 | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Coir fibre | 5 | 1.40 | 12 | 4.6 | 9 | 1.9 | 140.00 | 227.86 | -25.00 | -58.70 |
| Coir yarn | 15266 | 2328.23 | 11442 | 1966.2 | 13648 | 2637.2 | -25.05 | -15.55 | 19.28 | 34.13 |
| Coir mats | 11163 | 3569.35 | 13786 | 5082.4 | 15945 | 9892.0 | 23.50 | 42.39 | 15.66 | 94.63 |
| Coir matting | 3645 | 1193.90 | 4577 | 1775.9 | 5263 | 2318.0 | 25.57 | 48.75 | 14.99 | 30.53 |
| Coir rugs & carpets | 602 | 241.28 | 1327 | 573.9 | 1636 | 839.3 | 120.43 | 137.85 | 23.29 | 46.24 |
| Coir rope | 139 | 22.43 | 68 | 13.8 | 351 | 63.1 | -51.08 | -38.43 | 416.18 | 357.25 |
| Curled coir | 32 | 2.23 | 935 | 90.1 | 600 | 49.3 | 2821.88 | 3942.60 | -35.83 | -45.28 |
| Rubberised coir | 61 | 40.00 | 112 | 71.5 | 156 | 99.0 | 83.61 | 78.85 | 39.29 | 38.46 |
| Coir pith | - | - | 48 | 1.8 | 246 | 2.3 | - | - | 412.05 | 27.78 |
| Coir (other sorts) | 86 | 13.27 | 47 | 15.1 | 97 | 34.6 | 10.47 | 27.28 | 106.38 | 129.14 |
| Total | 30999 | 7412.09 | 32354 | 9595.3 | 37951 | 12936.7 | 4.37 | 29.46 | 17.30 | 34.82 |

Source: Coir Board, Kochi

US \$ 35.46 million which is 47 per cent of the exports. In Rupee terms, the N.F.E. is Rs.100 crores up to 1993-94. During the year 1993-94, the rate of growth in exports was 35 per cent over previous year. The imports also recorded growth of 34 per cent during 1993-94.

8.47. The sector-wise growth shows that electronics, garments and marine products are the

fast growing industries in the CEPZ. The glove units in CEPZ which were suffering due to poor markets have also picked up now and most of them are expected to do well. The units in CEPZ made an investment of Rs. 128 crores up to 31.3.1994, out of which Rs. 13 crores by foreigners and Rs. 12 cores by N.R.I.'s. The units in CEPZ have generated direct employment of 4300 as 31.3.1994.

TABLE 8.20

Leading Markets of Coir during 1993-94

| Country | Quantity (M.T.) | Value (Rs.Mill) | Percentage Share | |
|----------------|--------------------|--------------------|------------------|--------------|
| | | | Quantity | Value |
| (1) | (2) | (3) | (4) | (5) |
| USA | 7306 | 302.86 | 19.25 | 23.41 |
| UK | 3897 | 156.33 | 10.27 | 12.08 |
| Germany | 3874 | 134.82 | 10.21 | 10.42 |
| Italy | 4176 | 109.46 | 11.00 | 8.46 |
| Netherlands | 3391 | 98.83 | 8.94 | 7.64 |
| France | 2872 | 79.79 | 7.57 | 6.17 |
| Australia | 1740 | 76.65 | 4.58 | 5.92 |
| Belgium | 2020 | 69.31 | 5.32 | 5.36 |
| Portugal | 1200 | 28.00 | 3.16 | 2.16 |
| Canada | 609 | 25.84 | 1.60 | 2.00 |
| Greece | 412 | 21.66 | 1.09 | 1.67 |
| Irish Republic | 415 | 20.69 | 1.09 | 1.60 |
| Spain | 682 | 19.29 | 1.80 | 1.49 |
| Denmark | 401 | 16.79 | 1.06 | 1.30 |
| Turkey | 808 | 16.43 | 2.13 | 1.27 |
| UAE | 512 | 13.00 | 1.35 | 1.00 |
| Japan | 206 | 10.13 | 0.54 | 0.78 |
| Total | 34521 | 1199.84 | 90.96 | 92.73 |

Source: Coir Board, Kochi

TABLE 8.21

Major Markets of Coir Yarn 1991-92 to 1993-94

| Rank | 1991-92 | 1992-93 | 1993-94 |
|------|--------------|--------------|--------------|
| 1. | Netherlands | Netherlands | Italy |
| 2. | Italy | Italy | Netherlands |
| 3. | France | France | Germany |
| 4. | Germany | Germany | France |
| 5. | Belgium | Portugal | Portugal |
| 6. | Turkey | Belgium | Belgium |
| 7. | Portugal | USA | USA |
| 8. | USA | Turkey | Turkey |
| 9. | Saudi Arabia | Saudi Arabia | Spain |
| 10. | Spain | Spain | Saudi Arabia |

Source : Coir Board, Kochi

TABLE 8.22

Major Markets of Coir Mats 1991-92 to 1993-94

| Rank | 1991-92 | 1992-93 | 1993-94 |
|------|-------------|-------------|----------------|
| 1. | USA | USA | USA |
| 2. | UK | UK | UK |
| 3. | Italy | Australia | Germany |
| 4. | Germany | Italy | Australia |
| 5. | Australia | Germany | Italy |
| 6. | Netherlands | Netherlands | Canada |
| 7. | Greece | Canada | France |
| 8. | France | Greece | Netherlands |
| 9. | Canada | France | Greece |
| 10. | Belgium | Belgium | Irish republic |

Source: Coir Board, Kochi

TABLE 8.23

Major Markets of Coir Mattings 1991-92 to 1993-94

| Rank | 1991-92 | 1992-93 | 1993-94 |
|------|-------------|-------------|-------------|
| 1. | Germany | Belgium | Germany |
| 2. | Belgium | Germany | Belgium |
| 3. | USA | Netherlands | Netherlands |
| 4. | UK | UK | UK |
| 5. | Italy | Italy | USA |
| 6. | Netherlands | USA | France |
| 7. | France | France | Italy |
| 8. | Denmark | Canada | Australia |
| 9. | Australia | Australia | Denmark |
| 10. | Canada | Denmark | Spain |

Source: Coir Board, Kochi

CHAPTER 9

SOCIAL AND COMMUNITY SERVICES

INTRODUCTION

The emphasis on development of Social and Community Services during the last four decades of development planning has taken the State to the forefront of social development with the highest Human Development Index (HDI) in the country which reflects the Physical quality of life. The total plan investment on social services from the 1st Five Year Plan to 7th Five Year Plan amounted to over Rs.1402 crores which constituted about 24 per cent of the plan expenditure of the State during the period. At the same time the all India average of plan expenditure has been ranging between 15 to 20 per cent. The fact remains that as a result of expansion of infrastructure and services in the earlier periods, the resultant expenditure on Social Services Sector is as high as 40 per cent of the total expenditure of the State. The plan and non-plan expenditure together increased from Rs.689 crores in 1985-86 to about 1907 crores in 1993-94. The relevant data are reflected in Table - 9.1.

Table 9.1
Expenditure on Social Services
1985-86 to 1994-95

| Year | Total Expenditure (Revenue and Capital) | Expenditure on social service (Revenue and Capital) | Rs. in crores |
|------------------|---|---|-------------------------|
| | | | % the total expenditure |
| 1985-86 | 1651 | 689 | 42 |
| 1986-87 | 1711 | 790 | 46 |
| 1987-88 | 1948 | 852 | 44 |
| 1988-89 | 2241 | 970 | 43 |
| 1989-90 | 3418 | 1059 | 31 |
| 1990-91 | 3081 | 1278 | 41 |
| 1991-92 | 3502 | 1382 | 39 |
| 1992-93 | 3934 | 1480 | 37 |
| 1993-94 (R.E) | 4821 | 1907 | 40 |
| 1994-95 (B.E) | 5485 | 2185 | 40 |

Source : Annual Financial Statement (from 1987-88 to 1994-95)

EDUCATION

Literacy

9.2 Kerala has attained the highest effective literacy rate of 89.81 per cent whereas the all India level is way down at 52.21 per cent. The female literacy rate is as high as 86.17 per cent in Kerala as compared to 39.29 per cent at the national level. The literacy rate for Scheduled Castes is 79.66 per cent and the female literacy among Scheduled Castes is 74.31 per cent. The literacy level of Scheduled Tribes in Kerala is 51.09 per cent. Thus Kerala has successfully tackled one of the first generation problems while the national planners are still grappling with it. The trend in literacy levels of India and Kerala from 1901-1991 is given in Table-9.2 and Appendix 9.1 and illustrated in Fig. 9.1.

Table 9.2

Trend in Literacy - INDIA and KERALA

| Year | INDIA | | | KERALA | | |
|------|------------------|-------|--------|------------------|-------|--------|
| | Rate of Literacy | | | Rate of Literacy | | |
| | Total | Male | Female | Total | Male | Female |
| 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 | 19.02 | 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 | 18.68 | 60.42 | 66.62 | 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.

School Education Infrastructure

9.3 The school education infrastructure in Kerala consists of 6702 L.P Schools, 2919 U.P Schools and 2475 High Schools. Further 656 High

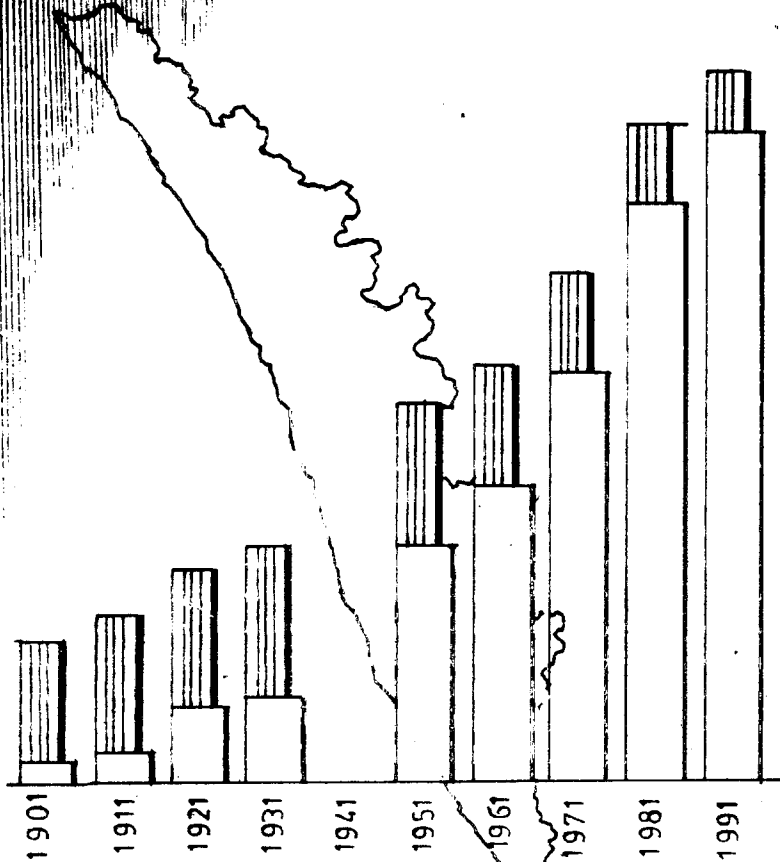
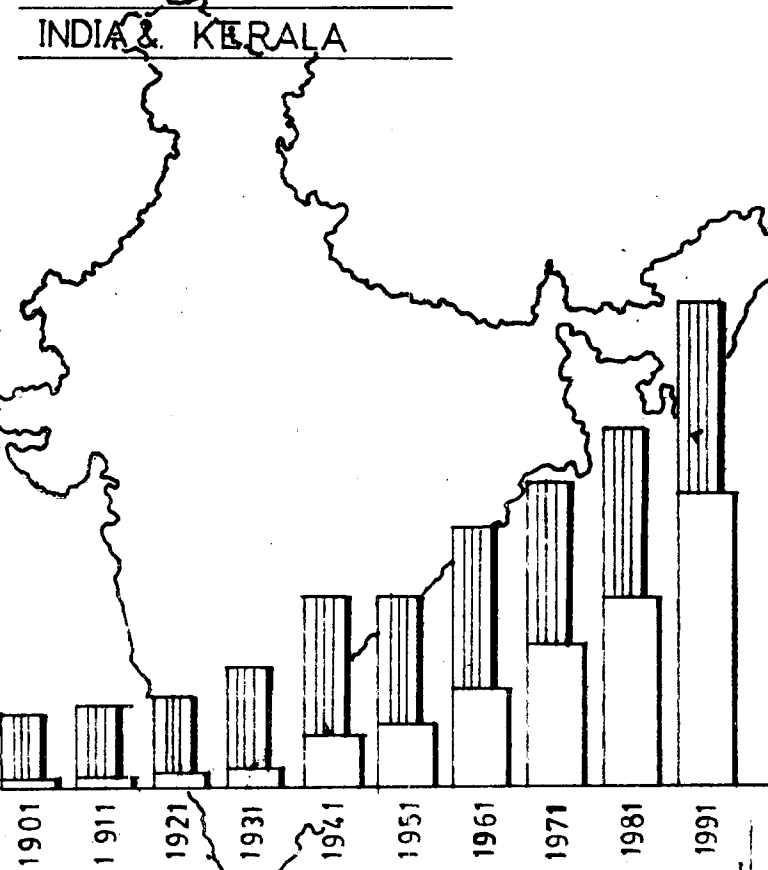
TREND IN LITERACY
INDIA & KERALA

100
90
80
70
60
50
40
30
20
10
0

1901 1911 1921 1931 1941 1951 1961 1971 1981 1991

Male
Female

1901 1911 1921 1931 1941 1951 1961 1971 1981 1991



Schools are having L.P Sections, 1971 High Schools are having UP Sections and 2235 U.P Schools have L.P Sections. Thus the effective L.P education infrastructure consisted of 6702 L.P Schools and 2891 L.P Sections and U.P comprised 2919 U.P Schools and 1971 U.P Sections. Of the total schools there are 4446 Government Schools, 7304 Private aided schools and 346 private unaided schools. Details are given in Appendix 9.2, 9.3 & 9.4. The progress of educational institutions from 1961-62 to 1993-94 can be seen in Appendix 9.5 (Fig. 9.2).

Educational Accessibility

9.4 The wide spread educational infrastructure facilitates easy access to LP/UP education in Kerala. The fact remains that 94.39 per cent of the rural population is served by primary schools/sections within a distance of 1 km. and 97.96 per cent within a distance of 2 kms. In the case of Upper Primary Education, Kerala

serves 96.2 per cent of its rural population with an upper primary school/section within a distance of 3 kilometers whereas this rate for all India is 84 per cent. Further 97.82 per cent of the rural population in Kerala have the facility for secondary education within 8 kilometers whereas this rate is 86.54 per cent for all India.

School Enrolment - LP/UP Levels Declined

9.5 The School enrolment during 1993 stood at 58.69 lakhs which declined to 58.08 lakhs in 1994. The decline in enrolment in 1994 was 0.61 lakh. Students (1.04%) where as it was 0.38 lakh in 1993. The actual decline at the L.P level was 47033 and U.P level 40687. In the meanwhile at the High School level there was an increase of 27089 students. The relevant data on stage-wise enrolment is given in Table 9.3 and district-wise details are given in Appendix 9.6

Table 9.3

Enrolment in Schools - Stage-wise

| Stage | 1992 | | | 1993 | | | 1994 | | |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Lower Primary | 1241041 | 1180357 | 2421398 | 1215142 | 1156943 | 2372085 | 1189912 | 1135140 | 2325052 |
| Upper Primary | 993750 | 939330 | 1933080 | 981615 | 925909 | 1907524 | 962941 | 903896 | 1866837 |
| Secondary | 776629 | 775898 | 1552527 | 784730 | 804397 | 1589127 | 799272 | 816944 | 1616216 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Age-specific Enrolment Ratio

9.6 In India, the age specific enrolment ratio in the age group 6 to 11 years was 75.89. For boys and girls it was 86.43 and 64.59 respectively. As against this in Kerala the combined ratio was 86.66; whereas for boys and girls it was 87.20 and 86.11 respectively. At the all India level enrolment ratio for the age group 5-14 was 51.17 and for Kerala it was 85.71. The standardwise strength of students for 1994 is given in Appendix 9.7 and management/standard-wise

enrolment for the period 1971 to 1994 is given in Appendix 9.8 and stage-wise enrolment in Appendix 9.9. The enrolment of Scheduled caste students in 1994 stood at 11.14 per cent of the total strength and that of Scheduled Tribe student was 1.11 per cent. The relevant details are given in Appendix 9.10.

Decline of School-age Group Population

9.7 It is estimated/projected that the school age group children (5-14 age) would

PROGRESS OF EDUCATIONAL INSTITUTIONS FROM 1979-80 TO 1993-94

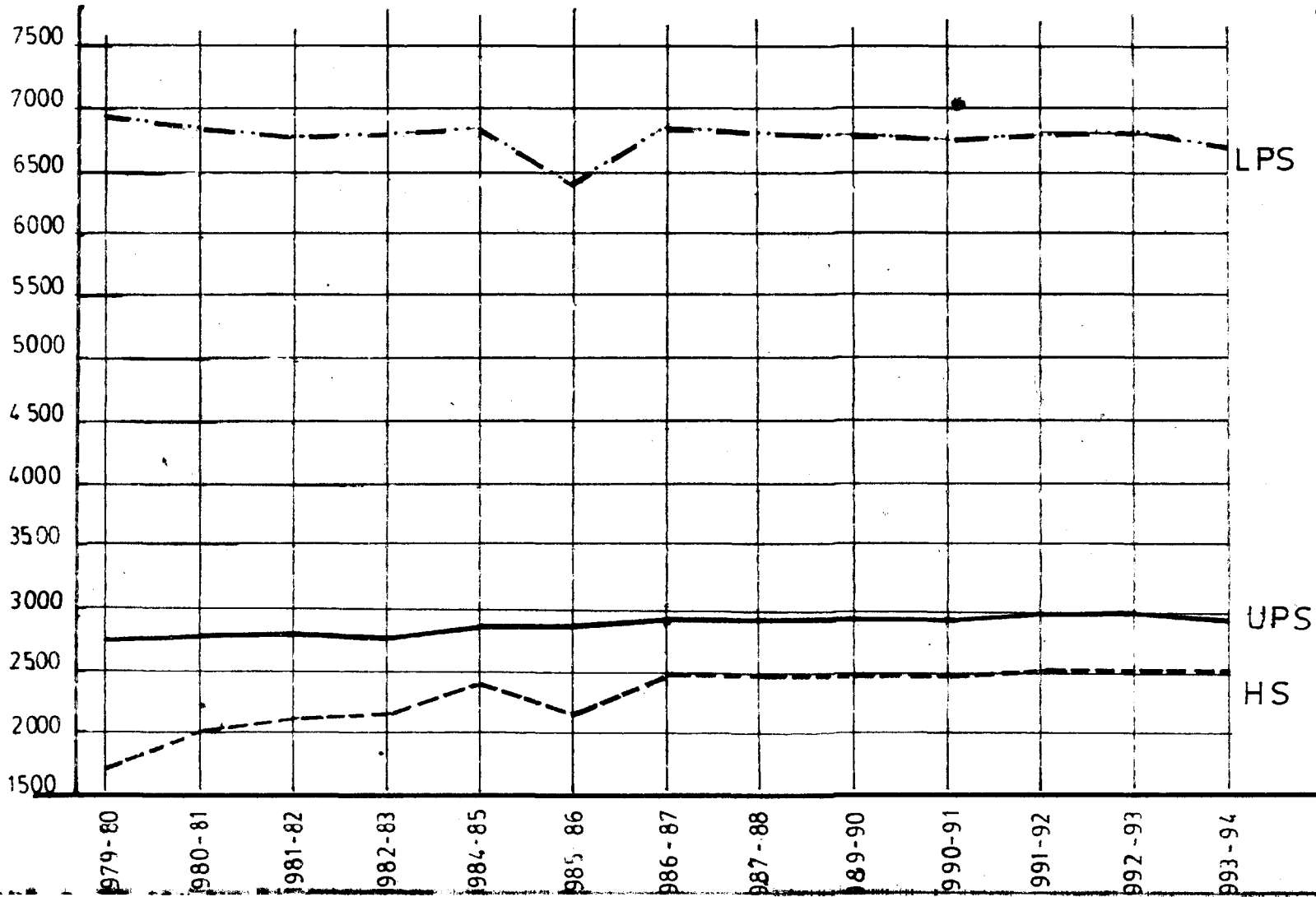


Fig 9.2

decline to 52.92 lakhs in 2001 A.D. The standard-wise school age group children projected indicate that the children available for Std.I in 2001 would be 5.27 lakhs as against 5.66 lakh children enrolled in Std.I in 1993. This would mean that the decline will be 38539 children. At the Lower Primary level (5-8 years) age group population would be 21.17 lakhs as against the present L.P enrolment of 23.71 lakhs students. At the upper primary level, children are projected to decline to 15.98 lakhs, against the current enrolment of 19.07 lakh students. At the high school level the age-group population is projected at 15.75 lakhs in 2001 as against the present enrolment of 15.89 lakhs. Thus the situation emerging is that by 2001 AD there will be 5.76 lakh children less than the present level of school enrolment. This is evident from the facts presented in Table 9.4 (Fig. 9.3).

Table 9.4

Standard-wise Enrolment in 1992-93 and Age Group Children projected for 2001 A.D

| Category | Present Enrolment (1992-93) | Age group Population 2001 | Actual decline | Percentage decline |
|-----------------------------|-----------------------------|---------------------------|----------------|--------------------|
| I | 366126 | 527587 | 38539 | 6.80 |
| II | 599550 | 528589 | 70761 | 11.80 |
| III | 606882 | 530531 | 76351 | 12.58 |
| IV | 599427 | 531194 | 68233 | 11.38 |
| Sub Total L.P. Level | 2371785 | 2117901 | 253884 | 10.70 |
| V | 621971 | 532056 | 89915 | 14.46 |
| VI | 630259 | 534988 | 95271 | 15.12 |
| VII | 655294 | 531653 | 123641 | 18.87 |
| Sub Total U.P Level | 1907524 | 1598697 | 308827 | 16.19 |
| VIII | 608369 | 526072 | 82297 | 13.53 |
| X | 546747 | 525340 | 21407 | 3.92 |
| X | 434011 | 524060 | 90049 (+) | 20.75 |
| Sub Total H.S Level | 1589127 | 1575472 | 13655 | 0.85 |
| Total | 5868436 | 5292070 | 576366 | 9.82 |

Source: Report of the Expert Committee on School Age Group population in 2001 A.D. and its implications on Educational policy and Planning - 1994.

Teachers and Teacher Pupil Ratio

9.8 There are 1.90 lakh teachers at all stages in the school education sector in Kerala. The number of teachers in L.P, U.P and H.S level from 1971 to 1994 is given in Appendix 9.11 and the stage-wise teachers in Kerala for 1994 is reflected in table 9.5. A further analysis would show that government school teachers constitute 37 per cent, Private aided school teachers 60 per cent and private unaided teachers 3 per cent. The pupil teacher ratio in Kerala is 31 where as the All India ratio is 35. The relevant data relating to teachers and pupil teacher ratio for 1970-71 to 1994 are presented in Appendix 9.12.

Uneconomic Schools and Protected Teachers

9.9 An uneconomic school is defined as one which does not satisfy the requirement of para 1 of Rule 22(4) of Kerala Education Rules which warrants that the minimum strength per standard in LP/UP/HS shall be 25. The minimum strength per standard in Sanskrit and Arabic schools shall be 15. The uneconomic schools in Kerala increased from 1165 in 1993 to 1265 in 1994. As presented in Table 9.6 uneconomic schools are the highest in Kannur. The fact remains that of the total uneconomic schools, 793 were in the Private Sector (63 per cent) and 472 in the Government Sector (37 per cent) over and above the uneconomic schools, there were 2011 protected teachers.

Higher Secondary Education (Plus Two)

9.10 There are 84 higher secondary schools of which 49 are government schools 33 aided schools and 2 unaided schools. Also out of the total schools 50 are in science groups and 34 in humanities. There are 9749 students enrolled under Plus 2 education.

Table 9.5

Number of School Teachers as on 31-3-1994

| Category | Total numbers | Of which SC/ST | |
|---------------|---------------|----------------|------------|
| | | SC | ST |
| L.P. Teachers | 47287 | 1821 | 134 |
| U.P. Teachers | 50701 | 1686 | 120 |
| H.S. Teachers | 97099 | 2974 | 132 |
| Total | 190087 | 6481 | 387 |

Source: Directorate of Public Instruction, Thiruvananthapuram.

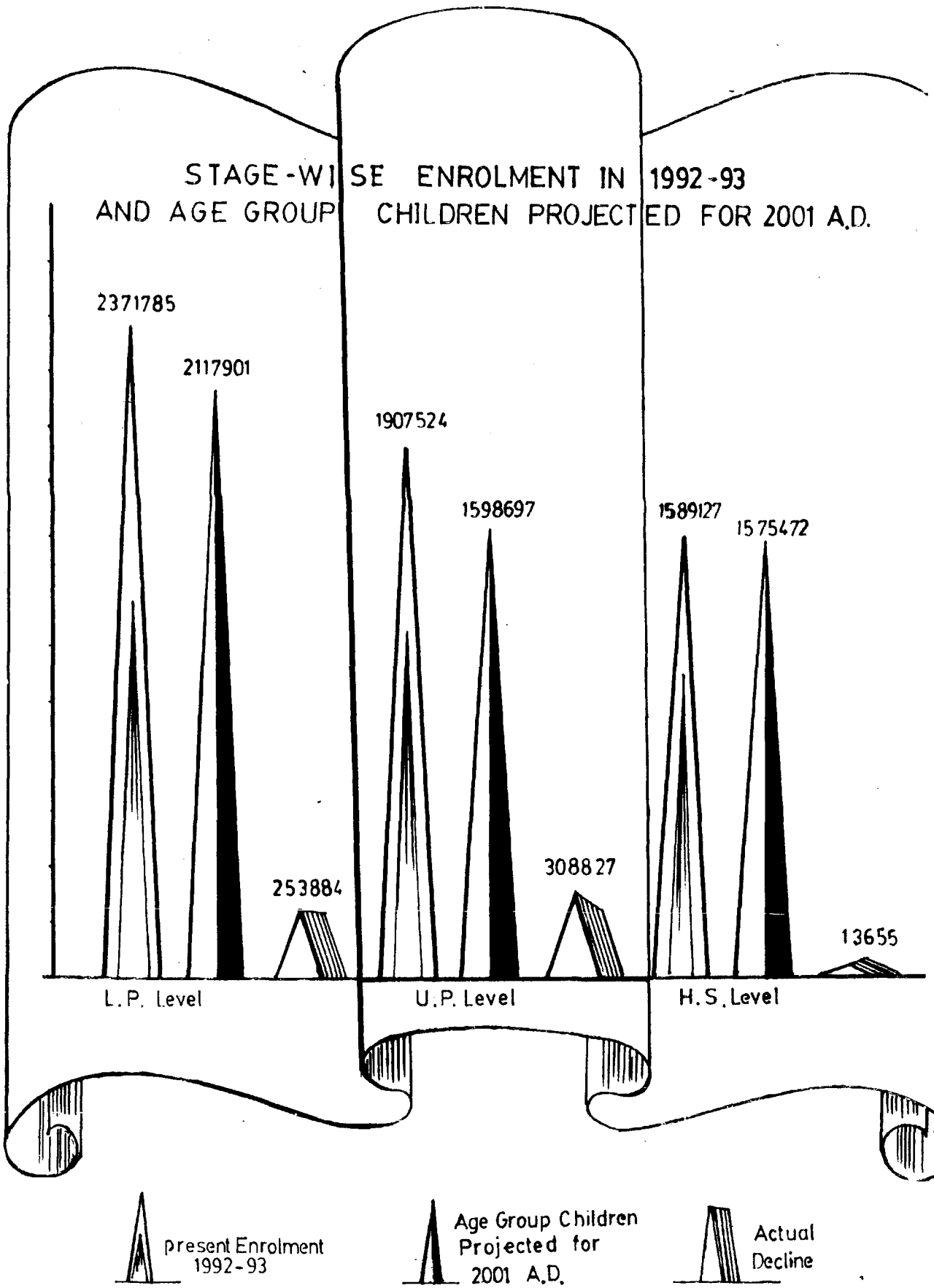


Fig 9.3

Table 9.6

Uneconomic Schools in Kerala District-wise & Stage-wise 1994 (Provisional)

| District | Govt. Schools | | | Private Schools | | | Total | | |
|--------------------|---------------|------|------|-----------------|------|------|-------|------|------|
| | L.P. | U.P. | H.S. | L.P. | U.P. | H.S. | L.P. | U.P. | H.S. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Thiruvananthapuram | 28 | 5 | 2 | 4 | 2 | --- | 32 | 7 | 2 |
| Kollam | 20 | 2 | --- | 10 | 1 | --- | 30 | 3 | --- |
| Pathanamthitta | 41 | 9 | 1 | 108 | 9 | 1 | 149 | 18 | 2 |
| Alappuzha | 40 | 9 | --- | 29 | 3 | --- | 69 | 12 | --- |
| Ernakulam | 39 | 5 | 1 | 49 | 8 | 1 | 88 | 13 | 2 |
| Kottayam | 53 | 14 | 2 | 77 | 16 | --- | 130 | 30 | 2 |
| Idukki | 22 | 3 | --- | 12 | 1 | --- | 34 | 4 | --- |
| Thrissur | 17 | 3 | 1 | 40 | 7 | --- | 57 | 10 | 1 |
| Malappuram | 5 | --- | --- | 7 | --- | --- | 12 | --- | --- |
| Palakkad | 14 | 1 | --- | 13 | --- | --- | 27 | 1 | --- |
| Kozhikode | 41 | 5 | --- | 110 | 5 | --- | 151 | 10 | --- |
| Wayanad | 10 | 1 | --- | 2 | --- | --- | 12 | 1 | --- |
| Kannur | 47 | 4 | --- | 241 | 17 | --- | 288 | 21 | --- |
| Kasaragode | 27 | --- | --- | 20 | --- | --- | 47 | --- | --- |
| Total | 404 | 61 | 7 | 722 | 69 | 2 | 1126 | 130 | 9 |

Source : Directorate of Public Instruction, Thiruvananthapuram.

Vocational Higher Secondary Education

9.11 There are 250 vocational higher secondary schools imparting 43 courses for 14000 students. The year-wise intake of students since 1993-94 is given in Table 9.7

University Education

9.12 In Kerala there are 174 arts and science colleges of which 41 are in the Government sector and 133 are in the private sector. The district-wise distribution of government and private colleges is given in Appendix 9.13 University wise distribution would show that there are 45 colleges under Kerala University 72 colleges under Calicut University and 57 colleges under Gandhiji University. The relevant details are given in Appendix 9.14.

Enrolment-Higher Education

9.13 The total annual enrolment stood at 1.55 lakhs. The girls accounted for 0.87 lakhs. Stage-wise details show that there were 1.05 lakh students at the pre-degree level, 0.45 lakh students at the degree level and 0.05 lakh students at the post graduate level. The enrolment details are in Appendix 9.15. The SC/ST enrolment constituted 14 per cent.

9.14 There are 13556 teachers in the arts and science colleges. The women teachers constituted 39 per cent of the total teachers. The relevant details are furnished in Table 9.8

Private Registration

9.15 The total private registrants in three Universities in Kerala - Kerala, Calicut and Mahatma Gandhi during the year 1994 stood at 1.68 lakhs. Out of this the registrants under PDC accounted for 1.15 lakhs degree. 0.39 lakh and PG 0.14 lakh. The University wise details on private registration under different courses are in Appendix 9.16

Table 9.7

Year-wise Intake of students for Vocational Education 1990-94

| Year | Boys | Girls | Total |
|-----------|------|-------|-------|
| 1989-1990 | 3250 | 1750 | 5000 |
| 1990-1991 | 4710 | 3987 | 8687 |
| 1991-1992 | 7630 | 4109 | 11739 |
| 1992-1993 | 9945 | 7328 | 17273 |
| 1993-1994 | 9278 | 9075 | 18353 |

Source : Directorate of VHSE.

Table 9.8

Number of Teachers in Arts and Science Colleges 1992-94

| Name of University | Number of Teachers | | | | | | | | |
|--------------------|--------------------|-------|-------|------|-------|-------|------|-------|-------|
| | 1992 | | | 1993 | | | 1994 | | |
| | Men | Women | Total | Men | Women | Total | Men | Women | Total |
| Kerala | 2369 | 1768 | 4137 | 2360 | 1764 | 4124 | 2435 | 1687 | 4122 |
| Calicut | 2944 | 1767 | 4711 | 2889 | 1733 | 4622 | 2896 | 1746 | 4642 |
| Gandhiji | 2886 | 1685 | 4571 | 3021 | 1774 | 4795 | 2955 | 1837 | 4792 |
| Total | 8199 | 5220 | 13419 | 8270 | 5271 | 13541 | 8286 | 5270 | 13556 |

Source : Directorate of Collegiate Education

Technical Education Infrastructure

9.16 The technical education infrastructure in Kerala consists of 12 Engineering Colleges (including 3 self financing colleges-now functional) 39 Polytechnics and 39 Technical High Schools. Out of the 12 Engineering Colleges 4 are in Government Sector. 3 in Private Sector, one Regional Engineering College one Model Engineering College under IHRDE and 3 self financing colleges. Out of the total Polytechnics, 32 are in government sector including Model Polytechnics, Vadakara, Mala and Puthuppally and also the eight up graded technical High Schools as Polytechnics and 7 in the Private Sector.

9.17 There are four autonomous institutions promoting technical education and research viz., Lal Bahadur Sastri Centre for Science and Technology, Institute of Human Resources Development for Electronics, Kerala State Science and Technology Museum and Kerala State Audio-Visual and Reprographic Centre. The Cochin University of Science and Technology imparts advanced training and research in Technical Education.

Enrolment in Engineering Colleges

9.18 The annual intake in Engineering Colleges decreased from 2879 in 1993 to 2718 in 1994. The details are given in Appendix 9.17. The total enrolment stood at 10521 in 1994 of which

2311 were girls. The annual intake at post graduate level is 312 for eleven courses. Details are given in Table 9.9. The details of students and teachers in Engineering Colleges are given in Appendix 9.18.

Table 9.9

Course-wise Annual Intake in Engineering Colleges at Post Graduate Level

| Name of Course | 1992 Intake | 1993 Intake | 1994 Intake |
|--|-------------|-------------|-------------|
| 1. Civil Engineering | 57 | 57 | 57 |
| 2. Mechanical Engineering | 42 | 42 | 42 |
| 3. Electrical | 41 | 41 | 41 |
| 4. Electronics | 05 | 05 | 05 |
| 5. Chemical Engineering | 06 | 06 | 06 |
| 6. Instrumentation and Control System | 10 | 10 | 10 |
| 7. Production Engineering | 06 | 06 | 06 |
| 8. Applied Electronics and Instrumentation | 05 | 05 | 05 |
| 9. Architecture | 05 | 05 | 05 |
| 10. Industrial Engineering | 15 | 15 | 15 |
| 11. M.C.A. | 120 | 120 | 120 |
| Total | 312 | 312 | 312 |

Source : Directorate of Technical Education.

Polytechnics and Technical High School Education

9.19 The annual intake for the 39 Polytechnics stood at 5671 in 1994. The total students strength in 1994 was 13471 of which 921 belonged to SC/ST. The girls enrolment constituted 31 per cent of the total. The annual intake, total enrolment and teachers are give in 'Appendices 9.19 & 9.20. The annual intake in technical high schools stood at 2243 and the relevant data are presented in Table 9.10.

Expenditure on Education

9.20 The total expenditure on education in 1993-94 amounted to Rs.1157.44 crores (Revised estimate) as against Rs.1078.32 crores in the

previous year. Of the total expenditure of Rs.1157.44 crores Rs.552.81 crores was spent on primary education (47.76%) and Rs.349.07 crores on secondary education (30.16%) The expenditure on University education increased from Rs.156.62 cores in 1992-93 to Rs.189.82 crores in 1994. The expenditure on technical education increased from Rs.52.61 crores in 1992-93 to Rs.58.85 crores during the year under review. The details of expenditure on education is given in Table 9.11 (Fig. 9.4). The cost of education per pupil at the primary stage increased from Rs.1074.41 in 1992-93 to Rs.1319.36 in the year under review. The cost of secondary education increased from Rs.1856.25 in 1992-93 to Rs.2168.14 in 1993-94. The relevant details are furnished in Table 9.12. The per capita expenditure on Education, Medical and Public Health is given in Appendix 9.21.

Table 9.10

Annual Intake and Out-turn in Technical Schools in Kerala

| Year | Number of Institutions | Intake | | Out-turn |
|------|------------------------|------------|--------|----------|
| | | Sanctioned | Actual | |
| 1981 | 25 | 1980 | 1718 | 685 |
| 1982 | 25 | 2000 | 1726 | 691 |
| 1983 | 25 | 2180 | 1815 | 986 |
| 1984 | 34 | 2180 | 1941 | 1065 |
| 1985 | 44 | 2180 | 1919 | 1093 |
| 1986 | 44 | 2480 | 2310 | 1074 |
| 1987 | 47 | 2570 | 2510 | 1371 |
| 1988 | 47 | 2570 | 2520 | 1475 |
| 1989 | 47 | 2570 | 2570 | 1505 |
| 1990 | 47 | 2570 | 2570 | 1531 |
| 1991 | 47 | 2730 | 2693 | 2056 |
| 1992 | 47 | 2749 | 2711 | 1798 |
| 1993 | 47 | 2749 | 2773 | 2221 |
| 1994 | 47 | 2205 | 2243 | 2053 |

Source : Directorate of Technical Education.

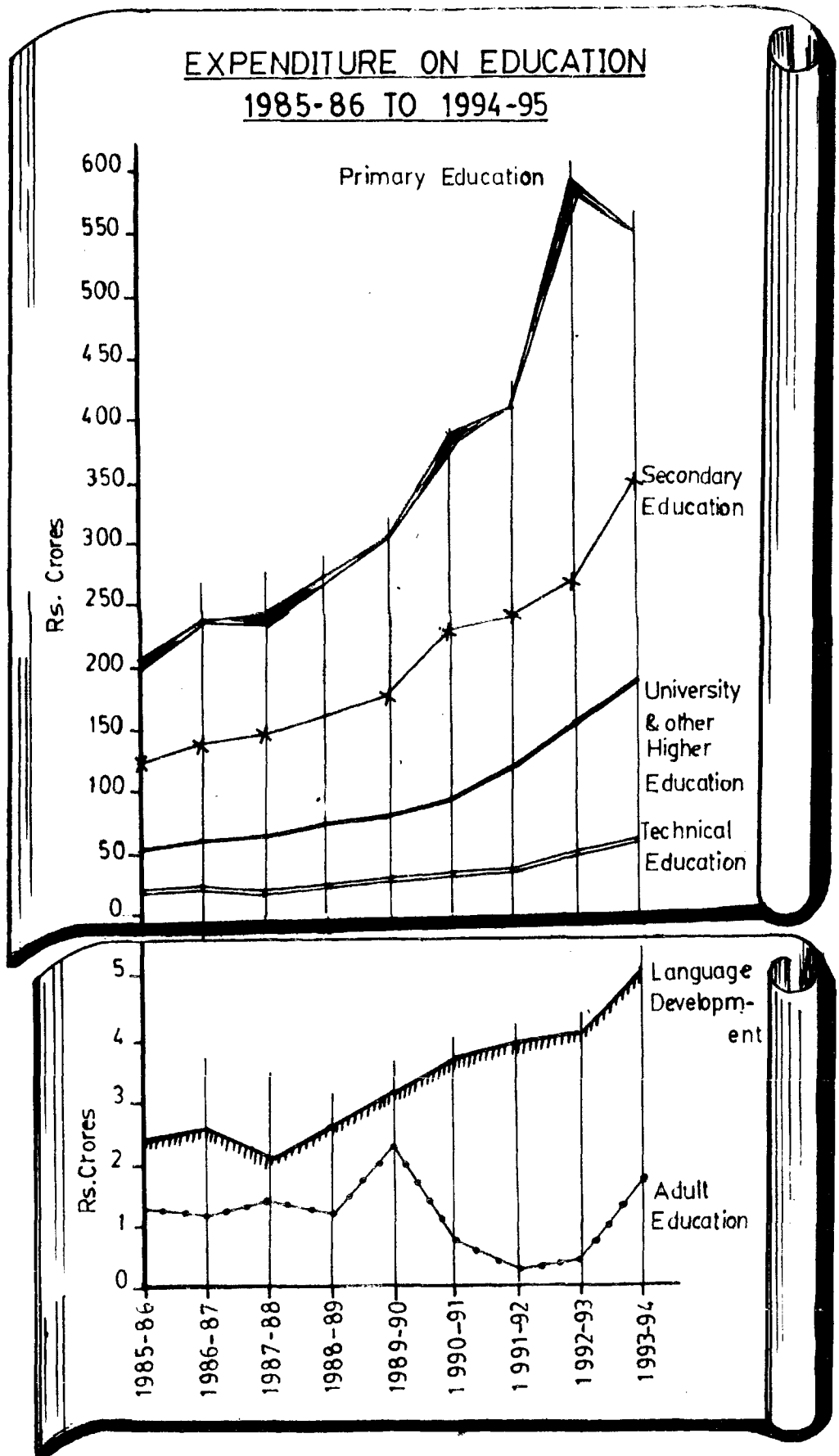


Fig 9.4

Table 9.11

Expenditure on Education 1985-86 to 1994-95

(Rs. in crores)

| Stages | 1985-86 (Accounts) | 1986-87 (Accounts) | 1987-88 (Accounts) | 1988-89 (Accounts) | 1989-90 (Accounts) | 1990-91 (Accounts) | 1991-92 (Accounts) | 1992-93 (Accounts) | 1993-94 (Accounts) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. Primary Education | 210.64 | 240.00 | 244.52 | 274.32 | 305.17 | 384.16 | 409.00 | 591.12 | 552.81 |
| 2. Secondary Education | 125.11 | 140.17 | 146.58 | 163.60 | 182.23 | 229.51 | 242.00 | 273.41 | 349.07 |
| 3. University and other Higher Education | 54.50 | 62.22 | 68.27 | 77.10 | 83.21 | 95.14 | 122.00 | 156.62 | 189.82 |
| 4. Adult Education | 1.31 | 1.22 | 1.44 | 1.28 | 2.30 | 0.87 | 0.32 | 0.43 | 1.78 |
| 5. Language Development | 2.44 | 2.57 | 2.14 | 2.66 | 3.16 | 3.72 | 3.91 | 4.13 | 5.11 |
| 6. Technical Education | 20.55 | 24.23 | 20.63 | 22.94 | 27.62 | 38.08 | 38.00 | 52.61 | 58.85 |
| Total | 414.55 | 470.41 | 483.58 | 542.13 | 603.69 | 751.48 | 815.23 | 1078.32 | 1157.44 |

Source : Detailed Budget.

Table 9.12

Cost of School Education per Pupil
1987-88 to 1993-94

| Year | Primary stage | Secondary stage |
|---------|---------------|-----------------|
| 1987-88 | 550.35 | 1089.38 |
| 1988-89 | 617.80 | 1161.93 |
| 1989-90 | 690.12 | 1248.15 |
| 1991-92 | 953.48 | 1600.00 |
| 1992-93 | 1074.41 | 1856.25 |
| 1993-94 | 1319.36 | 2168.14 |

HEALTH

Basic Health Development Indicators

9.21 Kerala's achievement in the health front is unique that the standards achieved compare very favourably with that of the developed countries. The development efforts made in terms of institutional infrastructure development, manpower development and higher resource allocation under successive five year plans have all contributed to this unique achievement. Education for women, awareness and clean health habits of the people have also played a notable role in the attainment of the present level of development. It is a matter of great pride that Kerala has successfully tackled some of the first generation problems like infant mortality rate, maternal mortality rate and death rate. The health development indicators IMR, BR and DR are reflected in Table 9.13.

9.22 The decadal growth rate of population in Kerala during 1981-91 has come down to 13.98 whereas the all India level is 23.5. The birth rate per thousand population in Kerala in 1994 is 17.1 compared to an all India rate of 29 in 1992. The death rate per thousand population in Kerala is 6 as against the all India rate of 10. Similarly the infant mortality rate in Kerala is 13 against the India position of 79. The relevant data for the period from 1970-1994 is given in Table 9.13. The maternal mortality rate has been reduced to almost nil in Kerala and for every three thousand deliveries, the reported MMR is below one. The life expectancy at birth in Kerala is 69 years for men and 72 for women whereas the all India level is 59.1 years and 58.1 years respectively for men and women. The death rate and birth rate and IMR from 1911 to 1992 are shown in Fig. 9.5 and Fig. 9.6

Immunisation Status

9.23 The immunisation coverage is 91 per cent in respect of pregnant women with T.T. and 100 per cent of infants with DPT and BCG. Polio coverage and antimeasles coverage are 99 per cent and 88 per cent respectively.

BIRTH AND DEATH RATES

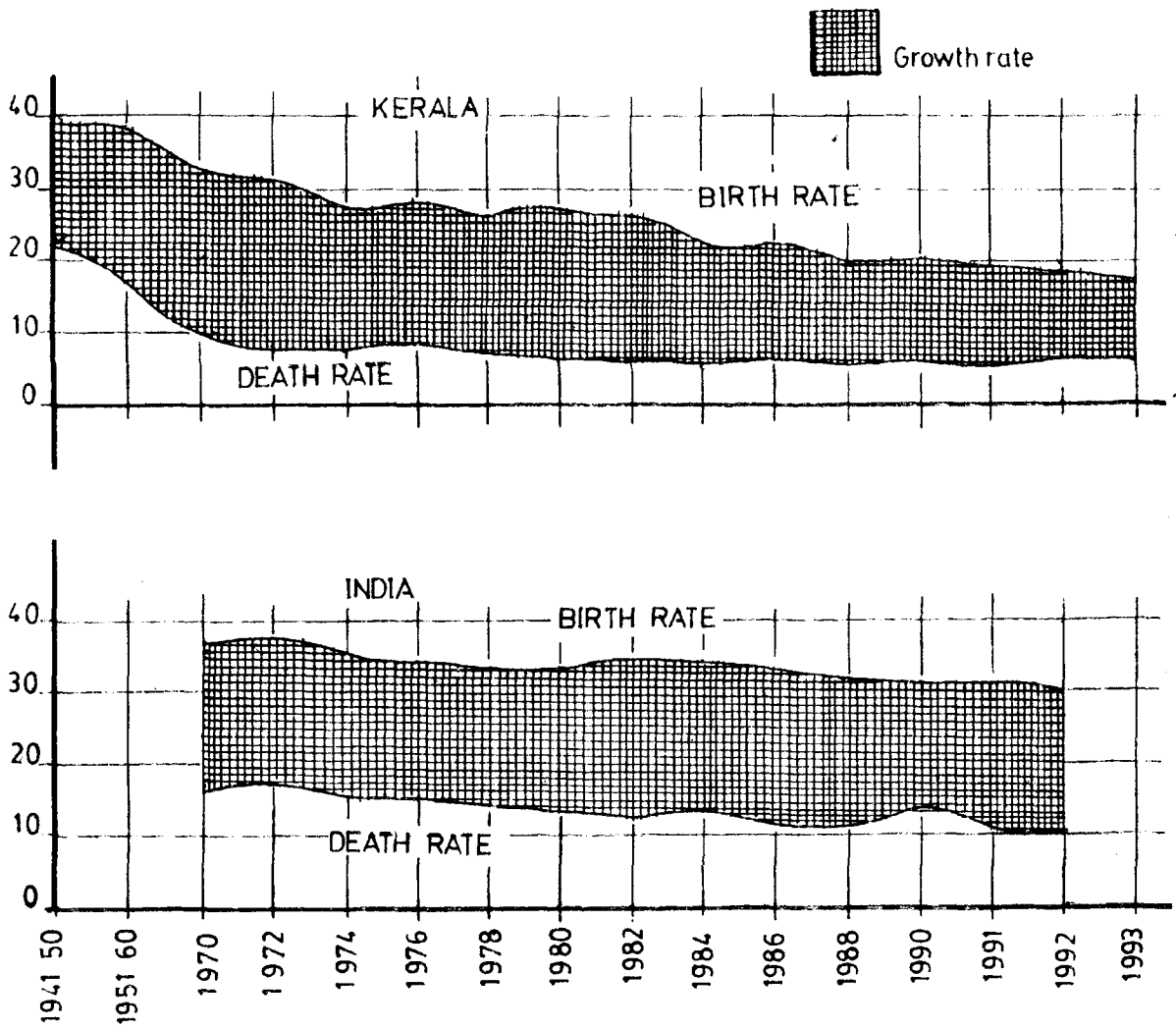


Fig 9.5

INFANT MORTALITY RATE OF KERALA & INDIA

KERALA INDIA

Fig 9.6

Infant Mortality Rates

280
260
240
220
200
180
160
140
120
100
80
60
40
20
0

1911 1920 1921-30 1931-40 1941-50 1951-60 1961-70 1971 1981 1991 1992

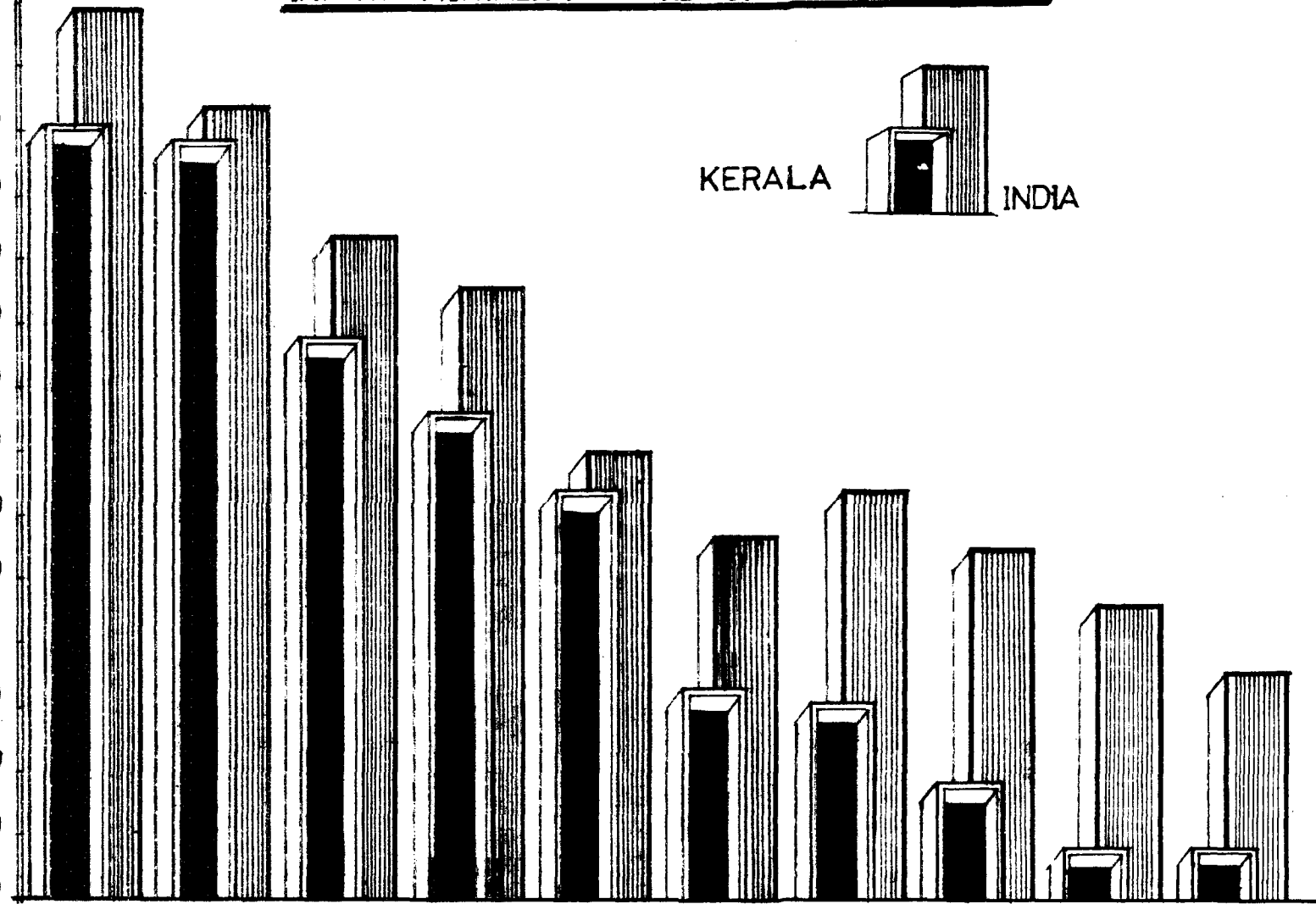


Table 9.13

Birth, Death and Infant Mortality Rate in Kerala

| Year | Birth rate per '000 population | | Death rate per '000 population | | Infant mortality rate per '000 population | |
|------|--------------------------------|-----------|--------------------------------|-----------|---|-----------|
| | Kerala | All India | Kerala | All India | Kerala | All India |
| 1970 | 32.3 | 36.8 | 9.2 | 15.7 | 61 | 129 |
| 1980 | 26.8 | 33.7 | 7.0 | 12.6 | 42 | 117 |
| 1981 | 25.6 | 33.0 | 6.6 | 12.5 | 37 | 110 |
| 1985 | 22.9 | 32.9 | 6.9 | 11.8 | 33 | 97 |
| 1986 | 22.4 | 32.6 | 6.7 | 11.1 | 27 | 96 |
| 1987 | 21.0 | 32.2 | 6.0 | 10.9 | 26 | 95 |
| 1988 | 19.9 | 31.3 | 6.0 | 10.0 | 24 | 94 |
| 1989 | 20.3 | 30.5 | 6.1 | 10.2 | 21 | 93 |
| 1990 | 20.3 | 30.5 | 6.1 | 14.2 | 21 | 93 |
| 1991 | 19.8 | 30.5 | 5.8 | 10.2 | 17 | 91 |
| 1992 | 18.1 | 29.0 | 6.0 | 10.0 | 16 | 79 |
| 1993 | 17.3 | N.A. | 6.0 | N.A. | 13 | N.A. |
| 1994 | 17.1 | N.A. | 6.0 | N.A. | 13 | N.A. |

Institutional Deliveries - 90 per cent in Kerala - A Signal Achievement

9.24 A notable achievement in the health infrastructure and accessibility is that over 90 per cent of the deliveries in Kerala are institutional deliveries which facilitates early immunisation, child care, maternal care etc. At the all India level, even 60 per cent of the deliveries could not be institutionalised so far.

Health Care Infrastructure and Manpower Development

9.25 One of the major factors that contributed to the present level of health development is the health care infrastructure and availability of manpower which facilitated greater access to institutional care. The health care infrastructure under the Department of Health Services consisted of 1249 institutions with 42438 beds in 1994 as

against 1240 institutions with 41018 beds in 1993. A further analysis would show that there are 148 hospitals with 27872 beds, 924 primary health centres including MCH centres with 5228 beds, 51 community health centres with 2816 beds, 53 dispensaries with 154 beds, 22 T.B. Clinics/centres with 448 beds, 14 leprosy control units and one leprosy sanatorium with 993 beds. The relevant data are given in Appendix - 9.22. The spatial distribution of medical institutions and beds are given in Table - 9.15. The expansion of rural health infrastructure during the last 10 years is given in Table 9.16. Growth of institutions and beds from 1980-81 to 1993-94 - Kerala are shown in Fig. 9.7.

Health Manpower

9.26 There are 22963 medical personnel with department of health services and 1773 with medical education department. The relevant data are given in Tables - 9.17 and 9.20.

GROWTH OF INSTITUTIONS AND BEDS (Allopathy)
1980-81 TO 1993-94

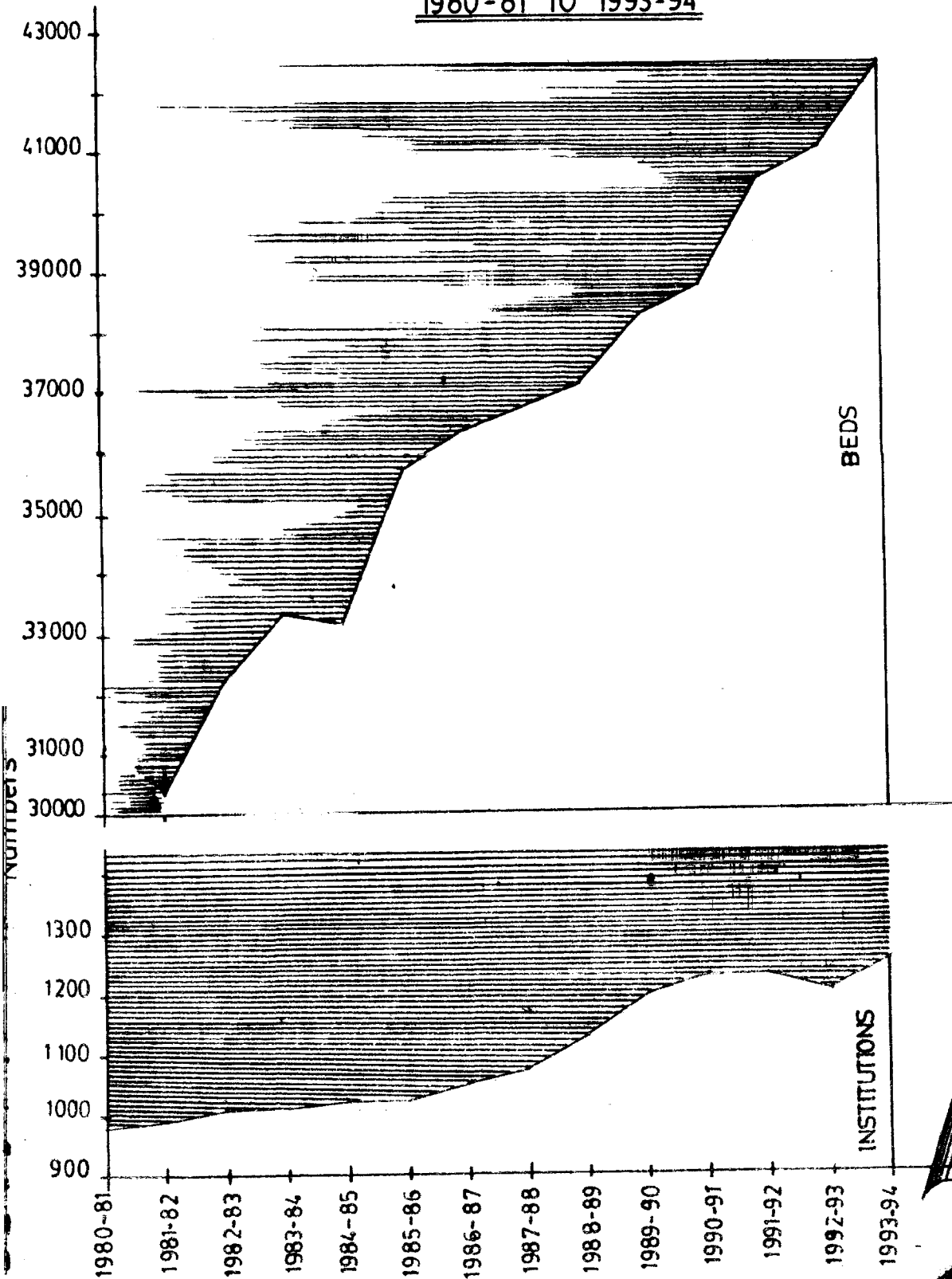


Fig 9.7

Table 9.14

Medical Institutions and Beds under Allopathy system in Kerala - 1981 to 1994

| Year | No. of Medical institutions | No. of beds | No. of beds per lakh of population |
|-------|-----------------------------|-------------|------------------------------------|
| 1981 | 968 | 32447 | 127 |
| 1982 | 991 | 32532 | 126 |
| 1983 | 1005 | 32880 | 125 |
| 1984 | 1009 | 33380 | 124 |
| 1985 | 1014 | 33329 | 124 |
| 1986 | 1015 | 35744 | 128 |
| 1987 | 1038 | 36404 | 128 |
| 1988 | 1066 | 36668 | 127 |
| 1989 | 1126 | 37100 | 127 |
| 1990 | 1199 | 38223 | 128 |
| 1991 | 1226 | 38726 | 133 |
| 1992* | 1229 | 40496 | 137 |
| 1993* | 1240 | 41018 | 137 |
| 1994* | 1249 | 42438 | 140 |

* Projected population furnished by the Department of Economics and Statistics is used for calculating the number of beds per lakh of population for the last three years 1992, 1993 and 1994.

Table 9.15

Spatial Distribution of Medical Institutions and Beds under Allopathy (District-wise)

| District | No. of Medical Institutions | | No. of Beds | |
|-----------------------|-----------------------------|------|-------------|-------|
| | 1993 | 1994 | 1993 | 1994 |
| 1 | 2 | 3 | 4 | 5 |
| 1. Thiruvananthapuram | 110 | 111 | 6446 | 6446 |
| 2. Kollam | 82 | 82 | 1960 | 2053 |
| 3. Alappuzha | 84 | 86 | 3843 | 3980 |
| 4. Pathanamthitta | 58 | 60 | 939 | 947 |
| 5. Kottayam | 76 | 76 | 3046 | 3058 |
| 6. Idukki | 63 | 64 | 863 | 863 |
| 7. Emakulam | 113 | 113 | 3743 | 3743 |
| 8. Thrissur | 112 | 112 | 3983 | 4067 |
| 9. Palakkad | 102 | 103 | 2128 | 2128 |
| 10. Malappuram | 113 | 113 | 2019 | 2149 |
| 11. Kozhikode | 89 | 90 | 4308 | 4308 |
| 12. Wayanad | 43 | 43 | 777 | 777 |
| 13. Kannur | 98 | 99 | 2335 | 2335 |
| 14. Kasaragod | 61 | 61 | 657 | 657 |
| Kerala | 1204 | 1213 | 37047 | 37511 |

Excluding grant-in-aid institutions.

Table 9.16

Rural Health Infrastructure 1985-1994

| Year | Primary Health Centre | | Community Health Centre | |
|------|-----------------------|------|-------------------------|------|
| | No. | Beds | No. | Beds |
| 1985 | 299 | 2842 | --- | --- |
| 1986 | 299 | 2880 | --- | --- |
| 1987 | 444 | 3400 | --- | --- |
| 1988 | 577 | 3274 | 29 | 2226 |
| 1989 | 740 | 3686 | 29 | 2292 |
| 1990 | 883 | 4480 | 54 | 3129 |
| 1991 | 908 | 4714 | 54 | 3159 |
| 1992 | 907 | 5031 | 54 | 3216 |
| 1993 | 918 | 5116 | 54 | 3285 |
| 1994 | 924 | 5228 | 51 | 2772 |

Table 9.17

Medical and Para Medical Personnel in the Health Services Department (Numbers)

| Category | 1991 | 1992 | 1993 | 1994 |
|------------------------------|-------|-------|-------|-------|
| 1. Medical Officers | 2998 | 2905 | 3134 | 3251 |
| 2. Dentists | 71 | 66 | 66 | 66 |
| 3. Senior Nurses | 1951 | 1954 | 1954 | 1954 |
| 4. Junior Nurses | 4086 | 4137 | 4137 | 4195 |
| 5. Lady Health Inspectors | 857 | 894 | 923 | 923 |
| 6. Pharmacists | 1684 | 1681 | 1681 | 1691 |
| 7. Junior P.H. Nurses (ANMS) | 5296 | 5281 | 5508 | 5533 |
| 8. Junior Health Inspectors | 4505 | 4505 | 4505 | 4505 |
| 9. Health Inspectors | 845 | 845 | 845 | 845 |
| Total | 22293 | 22268 | 22753 | 22963 |

Table 9.18

District-wise Number of Medical and para Medical Personnel under D.H.S.

| District | Number of Medical and Para Medical Personnel | | | | | | | | |
|-----------------------|--|----------|---------------|---------------|------------------------|-------------|------------------------|--------------------------|-------------------|
| | Medical Officers | Dentists | Senior Nurses | Junior Nurses | Lady Health Inspectors | Pharmacists | Jr. P.H. Nurses (ANMS) | Junior Health Inspectors | Health Inspectors |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 1. Thiruvananthapuram | 394 | 7 | 351 | 881 | 22 | 187 | 508 | 296 | 75 |
| 2. Kollam | 200 | 5 | 86 | 227 | 80 | 95 | 446 | 291 | 89 |
| 3. Alappuzha | 213 | 3 | 68 | 205 | 70 | 86 | 367 | 201 | 66 |
| 4. Pathanamthitta | 115 | 4 | 34 | 104 | 44 | 58 | 271 | 184 | 43 |
| 5. Kottayam | NA | 5 | NA | NA | 62 | NA | NA | NA | 50 |
| 6. Idukki | 99 | 2 | 26 | 102 | 62 | 67 | 331 | 208 | 56 |
| 7. Ernakulam | 316 | 9 | 184 | 393 | 74 | 131 | 418 | 262 | 68 |
| 8. Thrissur | 292 | 7 | NA | 560 | 99 | 136 | 499 | 317 | 79 |
| 9. Palakkad | 224 | 5 | 77 | 239 | 82 | 112 | 511 | 301 | 72 |
| 10. Malappuram | 244 | 4 | 55 | 268 | 97 | 118 | 589 | 335 | 83 |
| 11. Kozhikkode | NA | 8 | NA | NA | 76 | NA | NA | NA | 46 |
| 12. Wayanad | 80 | 2 | 28 | 90 | 34 | 37 | 202 | 130 | 29 |
| 13. Kannur | 205 | 3 | 123 | 271 | 81 | 112 | 423 | 299 | 51 |
| 14. Kasaragode | 101 | 2 | 33 | 87 | 40 | 55 | 249 | 168 | 38 |

Health Institutions and Beds in Private Sector

9.27 A survey conducted by the Department of Economics and Statistics revealed that there were 3565 private allopathic medical institutions with about 50,000 beds in the State. A recent survey carried out by the Kerala Sashtra Sahitya Parishad revealed that there were 6760 private medical institutions under all systems of medicines with 65156 beds in the State. Besides there are 77 co-operative medical institutions with 1579 beds.

High Bed Population Ratio

9.28. There are 1249 medical institutions (including grant-in-aid institutions) with 42438 beds under the department of health services and the five medical college hospitals together have 451 beds. Besides there are 2309 beds in 107 Ayurveda Hospitals and 950 beds in Homoeo hospitals. The beds per lakh of population under

all systems of medicines in the Government sector is 175. Taking into account the 65156 beds in 676077 private medical institutions and 2579 beds in co-operative medical institutions the beds availability in the State thus is 399 per lakh of population.

9.29. The details of attacks and deaths due to principal diseases during 1994 is furnished in Appendix No.9.24. An analysis of data would show that the case of attack on diphtheria, whooping cough, polio myelitis, tuberculosis, meningococcal infection and gonococcal infection recorded a decline during 1993-94 though the attack due to dysentery, infective hepatitis and measles slightly increased.

Medical Education

9.30. The medical education and training infrastructure in the state consisted of 5 medical colleges, 2 dental colleges and 3 nursing colleges.

The sixth medical college started under co-operative department is yet to become functional. The total intake under different courses is 700 for MBBS, 70 for BDS, 28 for B.Pharm, 24 for B.Sc. MLT, 150 for B.Sc. Nursing, 4 for M.Sc. Nursing, 6 for M.Pharm, 25 for MDs, 10 for Dental Hygienist Certificate course and 12 for Diploma in Clinical Child Development. M.Sc. nursing, M.D.S., B.Pharm, 25 for MDS, 10 for Dental Hygienist Certificate course and 12 for Diploma in Clinical Child Development. M.Sc. nursing, M.D.S., B.Pharm, M.Pharm, B.Sc., MLT Dental Hygienist certificate course and Diploma

in Clinical Child Development courses are being conducted only in Thiruvananthapuram Medical College. Details of annual intake of students for various courses in the medical colleges are given in Table 9. There are 7451 beds in all the five medical college hospitals. The details of personnel (clinical/non-clinical) under the Department of Medical Education is given in Table 9.19.

Nursing Education

9.31. There are 3372 students admitted annually under different nursing courses. The details are reflected in Table 9.21.

Table 9.19

Medical and Para Medical Courses conducted in the Medical Colleges with annual intake of students

| Name of courses | Number of seats in Medical Colleges | | | | |
|------------------------------|-------------------------------------|------------|----------|-----------|----------|
| | Thiruvananthapuram | Kozhikkode | Kottayam | Alappuzha | Thrissur |
| 1 | 2 | 3 | 4 | 5 | 6 |
| <i>Degree courses</i> | | | | | |
| 1. M.B.B.S. | 200 | 200 | 100 | 100 | 100 |
| 2. B.D.S. | 40 | 30 | -- | -- | -- |
| 3. B.Sc. Nursing | 50 | 50 | 50 | -- | -- |
| Sub Total | 290 | 280 | 150 | 100 | 100 |

Post Graduate Degree

| | | | | | |
|------------------------------------|----|----|----|----|----|
| 1. M.Sc. Nursing | 4 | -- | -- | -- | -- |
| 2. M.D.S. | 25 | -- | -- | -- | -- |
| 3. M.D. Anesthesia | 4 | 1 | 2 | -- | -- |
| 4. M.D. Biochemistry | 2 | 2 | -- | -- | -- |
| 5. M.D. Forensic Medicine | 2 | 2 | -- | -- | -- |
| 6. M.D. Dermatology | 3 | 4 | 3 | -- | -- |
| 7. M.D. General Medicine | 13 | 12 | 7 | 2 | -- |
| 8. M.D. Micro Biology | 2 | 2 | -- | -- | -- |
| 9. M.D. Obstetrics and Gynaecology | 8 | 8 | 4 | -- | -- |
| 10. M.D. Pathology | 6 | 2 | 3 | -- | -- |
| 11. M.D. Pharmacology | 4 | 2 | -- | -- | -- |
| 12. M.D. Physiology | 2 | 3 | 2 | -- | -- |
| 13. M.D. Paediatrics | 6 | 5 | 3 | -- | -- |
| 14. M.D. Psychiatry | 1 | 2 | -- | -- | -- |
| 15. M.D. Radio Diagnosis | 2 | -- | -- | -- | -- |

| | 1 | 2 | 3 | 4 | 5 | 6 |
|---------------------------------------|------------|-----------|-----------|----------|-----------|-----------|
| 16. M.D. Radiotherapy | 2 | -- | -- | -- | -- | -- |
| 17. M.D. Community Medicine | 3 | 2 | 2 | 2 | -- | -- |
| 18. M.D.T.B. and Respiratory Diseases | 2 | 2 | -- | -- | -- | -- |
| 19. M.S. Anatomy | 2 | 2 | 2 | 2 | -- | -- |
| 20. M.S. ENT. | 2 | 2 | 2 | 2 | -- | -- |
| 21. M.S. General Surgery | 20 | 12 | 8 | 2 | -- | -- |
| 22. M.S. Orthopaedics | 4 | 4 | 3 | -- | -- | -- |
| 23. M.S. Ophthalmology | 4 | 4 | 2 | -- | -- | -- |
| 24. M.D. Physical Medicine | 2 | -- | -- | -- | -- | -- |
| Sub Total | 125 | 73 | 43 | 4 | -- | -- |

Super Speciality Courses

| | | | | | | |
|---------------------------------|-----------|-----------|----------|-----------|-----------|-----------|
| 1. Mech. Paediatric Surgery | 2 | 2 | -- | -- | -- | -- |
| 2. Mech. Plastic Surgery | 2 | 2 | 1 | -- | -- | -- |
| 3. Mech. Genito urinary Surgery | 2 | 2 | 1 | -- | -- | -- |
| 4. Mech. Thorasic Surgery | 2 | -- | -- | -- | -- | -- |
| 5. Mech. Neuro Surgery | 2 | -- | -- | -- | -- | -- |
| 6. D.M. Gastro Enterology | 1 | 1 | -- | -- | -- | -- |
| 7. D.M. Neurology | 1 | -- | -- | -- | -- | -- |
| 8. D.M. Cardiology | 2 | 1 | -- | -- | -- | -- |
| 9. D.M. Nephrology | -- | 1 | -- | -- | -- | -- |
| Sub Total | 14 | 11 | 2 | -- | -- | -- |

Diploma Courses

| | | | | | | |
|--|----|----|----|----|----|----|
| 1. Diploma in Anesthesia | 8 | 6 | 6 | -- | -- | -- |
| 2. Diploma in Child Health | 6 | 12 | 6 | -- | -- | -- |
| 3. Diploma in Clinical Pathology | 3 | 6 | -- | -- | -- | -- |
| 4. Diploma in Dermatology and Venerology | -- | 2 | -- | -- | -- | -- |
| 5. Diploma in Laryngology and Otology | 8 | 6 | 2 | -- | -- | -- |
| 6. D.M.R.D. | 2 | 2 | -- | -- | -- | -- |
| 7. D.M.R.T. | 2 | 2 | -- | -- | -- | -- |
| 8. Diploma in Obsterics and Gynaecology | 12 | 12 | 9 | -- | -- | -- |

| | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|------------|------------|------------|------------|------------|
| 9. Diploma in Ophthalmology | | 3 | 6 | 9 | -- | -- |
| 10. Diploma in Orthopaedic Surgery | | 8 | 6 | 6 | -- | -- |
| 11. Diploma in Physical Medicine | | 4 | -- | -- | -- | -- |
| 12. Diploma in Psychiatric Medicine | | 6 | -- | -- | -- | -- |
| 13. Diploma in Public Health | | 12 | -- | -- | -- | -- |
| 14. D.T.C.D. | | 2 | 2 | -- | -- | -- |
| <i>Diploma/Certificate Courses</i> | | | | | | |
| 1. B.Pharm | | 28 | -- | -- | -- | -- |
| 2. M.Pharm | | 6 | -- | -- | -- | -- |
| 3. B.Sc. MLT. | | 24 | -- | -- | -- | -- |
| 4. MLT Certificate | | 60 | 50 | 15 | 15 | 15 |
| 5. CRA Certificate | | 40 | 30 | 15 | 15 | 10 |
| 6. Ophthalmic Assistant Certificate | | 30 | 20 | 15 | 5 | 5 |
| 7. D. Pharm (1 year) Diploma | | 50 | -- | 30 | 35 | -- |
| 8. D. Pharm (2 years) | | -- | 50 | -- | -- | -- |
| 9. Dental Mechanic Certificate Course | | 15 | 5 | -- | -- | -- |
| 10. Certificate Course in Nursing | | 30 | 30 | -- | -- | -- |
| 11. Dental Hygienist Certificate Course | | 10 | -- | -- | -- | -- |
| 12. Diploma in Clinical Child Development | | 12 | -- | -- | -- | -- |
| Sub Total | | 381 | 247 | 113 | 70 | 30 |
| Total | | 810 | 611 | 308 | 174 | 130 |

Table 9.20 •

Details of Personnel (Clinical/Non-clinical) under Directorate of Medical Education

| Sl. No. | Category | No. of clinical/non-clinical personnel | | | |
|--------------------------|------------------------|--|-------------|-------------|-------------|
| | | 1991 | 1992 | 1993 | 1994 |
| 1. | Director and Professor | --- | --- | --- | --- |
| 2. | Professor | 186 | 188 | 188 | 190 |
| 3. | Associate Professor | 193 | 194 | 195 | 202 |
| 4. | Assistant Professor | 422 | 425 | 425 | 432 |
| 5. | Tutor/Lecturer | 687 | 692 | 697 | 714 |
| Nursing Education | | | | | |
| 6. | Director | 3 | 3 | 3 | 3 |
| 7. | Professor | 4 | 4 | 4 | 4 |
| 8. | Associate Professor | 16 | 16 | 16 | 16 |
| 9. | Assistant Professor | 22 | 22 | 22 | 22 |
| 10. | Tutor | 37 | 37 | 37 | 37 |
| M.L.T. Course | | | | | |
| 11. | Director | 1 | 1 | 1 | 1 |
| 12. | Assistant Professor | 6 | 6 | 6 | 6 |
| 13. | Tutor | 4 | 4 | 4 | 4 |
| 14. | Tutor Technician | 14 | 14 | 14 | 14 |
| Dental | | | | | |
| 15. | Director and Professor | -- | -- | -- | -- |
| 16. | Professor | 18 | 19 | 19 | 19 |
| 17. | Associate Professor | 4 | 4 | 4 | 4 |
| 18. | Assistant Professor | 24 | 24 | 25 | 24 |
| 19. | Tutor/Lecturer | 36 | 36 | 36 | 36 |
| Pharmacy | | | | | |
| 20. | Director | 1 | 1 | 1 | 1 |
| 21. | Professor | 3 | 3 | 3 | 3 |
| 22. | Associate Professor | 4 | 4 | 4 | 4 |
| 23. | Assistant Professor | 10 | 11 | 11 | 11 |
| 24. | Lecturer | 26 | 26 | 26 | 26 |
| Total | | 1721 | 1734 | 1741 | 1773 |

Table 9.21

Annual Intake for Nursing Courses in different categories in 1994

| Institutions | No. of Institutions | Total Annual Intake |
|---|---------------------|---------------------|
| I. Integrated (Genral Nurse-cum-Midwives) 3½ year course | | |
| (a) Government Nursing Schools | 9 | 297 |
| (b) Private Nursing Schools | 70 | 1845 |
| (c) Medical College, Kozhikode | 1 | 30 |
| (d) Medical Colege, Thiruvananthapuram | 1 | 30 |
| II. Junior Public Health Nurses (18 months 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 Colelge, Kozhikode | 1 | 50 |
| IV. M.Sc. Nursing | | |
| Medical College, Thiruvananthapuram | 1 | 4 |

Ayurveda

9.32 There were 107 Ayurveda Hospitals with 2309 beds, 566 dispensaries and 139 grant-in-aid Vaidyasalas as on 31-3-1993. During 1993-94, 13 dispensaries were started. The district-wise details of institutions, beds and number of patients treated are given in Appendix 9.26.

9.33 There are 3 Government Ayurveda Colleges in the State with an annual intake of 50 students in Thiruvananthapuram Ayurveda College and 30 each in Thrrippunithura and Kannur for BAMS course. M.D. education is imparted only in the Ayurveda College, Thiruvananthapuram and the annual intake is 42. The two private Ayurveda Colleges at Kottakkal and Ollur have an annual intake of 30 students in each college for BAMS course.

Table 9.22

Number of Ayurveda Hospitals and Dispensaries 1986-1994

| Year | Ayurveda Hospitals | Ayurveda Dispensaries |
|------|--------------------|-----------------------|
| 1986 | 96 | 473 |
| 1987 | 97 | 497 |
| 1988 | 101 | 496 |
| 1989 | 101 | 498 |
| 1990 | 101 | 506 |
| 1991 | 106 | 527 |
| 1992 | 106 | 550 |
| 1993 | 107 | 566 |
| 1994 | 107 | 579 |

Homoeopathy

9.34 At present there are 31 homoeopathic hospitals with 950 beds and 374 dispensaries in the State. Also 10 District Medical Offices are functioning under this department. During 1993-94 14 rural homoeo dispensaries and one District Medical Office were started. The relevant data on homoeo hospitals and dispensaries from 1986-94 are given in Table 9.23. Also, the district-wise distribution of institutions, beds and patients treated under homoeopathy are given in Appendix 9.27.

9.35 There are 5 homoeopathic medical colleges in the state of which two are in the Government Sector and the remaining three are in the private sector. BHMS Degree course and BHMS (graded) Degree Course are being conducted in the Government Homoeopathic Medical Colleges with an annual intake of 100 students in each course. In the private Athurasramam NSS Homoeo College, Kurichy both BHMS Degree and Diploma courses are being conducted with an annual intake of 50 and 120 students respectively. In the other two private Homoeo Colleges BHMS diploma course is being conducted with an annual intake of 125 students. The bed strength in the Homoeopathic College Hospital, Thiruvananthapuram and Kozhikode are 50 and 100 respectively.

Table 9.23

Number of Homoeo Hospitals and Dispensaries
1986-1994

| Year | Homoeo Hospitals | Homoeo Dispensaries |
|------|---------------------|------------------------|
| (1) | (2) | (3) |
| 1986 | 24 | 227 |
| 1987 | 24 | 255 |
| 1988 | 24 | 255 |
| 1989 | 24 | 262 |
| 1990 | 26 | 274 |
| 1991 | 30 | 312 |
| 1992 | 30 | 338 |
| 1993 | 31 | 360 |
| 1994 | 31 | 374 |

Table 9.24

Medical Practitioners (Numbers)

| System | Class of Registra- tion | 1993 | 1994 (upto 7-11-94) |
|--------------------|-------------------------------|--------|---------------------------|
| 1. Modern Medicine | A | 20646 | 21,630 |
| | B | 635 | 635 |
| | Listed | 204 | 204 |
| Sub Total | | 21,485 | 22,469 |
| 2. Homoeopathy | A | 4,614 | 4,798 |
| | B | 1,486 | 1,486 |
| | Listed | 279 | 279 |
| Sub Total | | 6,379 | 6,563 |
| 3. Ayurveda | A | 6,195 | 6,267 |
| | B | 6,100 | 6,100 |
| | Listed | 599 | 599 |
| Sub Total | | 12,894 | 12,966 |
| 4. Sidha | A | 92 | 96 |
| | B | 1,218 | 1,218 |
| | Listed | 41 | 41 |
| Sub Total | | 1,351 | 1,355 |
| 5. Unani | A | 3 | 3 |
| | B | 51 | 61 |
| | Listed | 5 | 5 |
| Sub Total | | 59 | 59 |
| Grand Total : | | 42,168 | 43,412 |

Table 9.25

List of Registered Para Medical Practitioner

(Number cum.)

| Category | 1993 | | | 1994 | | | |
|-------------------------------------|------|--------|-------|------|--------|-------|-----|
| | Male | Female | Total | Male | Female | Total | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| Nurse | 300 | 13676 | 13976 | 323 | 14261 | 14584 | |
| Mid-wife | -- | 12374 | 12374 | -- | 12967 | 12967 | |
| Nurses and Midwives (integrated) | -- | 14878 | 14878 | -- | 16321 | 16321 | |
| Auxiliary Nurse-Midwife | -- | 11206 | 11206 | -- | 11628 | 11628 | |
| Health Visitors | -- | 318 | 318 | -- | 318 | 318 | |
| Grand Total : | 300 | 52452 | 52752 | 323 | 55495 | 55818 | |

Family Welfare Programme

9.36 Kerala's achievement in the family welfare front has been impressive in terms of major indicators viz., birth rate, death rate, maternal mortality rate, infant mortality rate and couple protection rate. The couple protection rate is 60 whereas the all India average is 48.2.

9.37 The Family Welfare Programmes in Kerala are being implemented through a net work of 924 primary health centres and 5094 sub centres. The details of family welfare infrastructure is given in Table 9.26. Training is an integral part of the family welfare programme. The training infrastructure consists of 2 Junior Health Inspectors Training Schools with a total intake of capacity 120 for imparting training of 12 months duration. 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 2 Female Health Supervisors Training Schools functioning with an intake capacity of 85 for conducting promotional training courses.

9.38 The targets and achievements under Family Welfare Programme are given in Table 9.27. The expenditure during 1992-93 amounted to Rs.3815.97 lakhs. The relevant data are given in Table 9.28.

Table 9.26

| Sl. No. | District | Rural | | |
|---------|--------------------|--------------|-------------|-------|
| | | 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. | Eranakulam | 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. | Kasaragode | 44 | 161 | 205 |
| Kerala | | 871 | 4223 | 5094 |

Table 9.27

Target and Achievement of Family Welfare Programme

| Item | Unit | 1993 | | 1994 | |
|---|------|----------|-------------|----------|-------------|
| | | Target | Achievement | Target | Achievement |
| I. Family Welfare Programme | | | | | |
| a. Sterilisation (Vasectomy, Tubectomy) | Nos. | 1,40,000 | 1,59,823 | 1,15,000 | 131173 |
| b. I.U.D. Insertion | " | 1,25,000 | 1,01,170 | 1,00,000 | 84854 |
| c. C.C. Users | " | 3,00,000 | 2,88,370 | 3,82,000 | 257169 |
| d. O.P. Users | " | 49,000 | 33,896 | 55,000 | 32493 |
| II. M.C.H. Programme | | | | | |
| a. Immunisation Programme | | | | | |
| (i) DPT | " | 5,50,000 | 5,53,536 | 5,29,200 | 556257 |
| (ii) Polio | " | 5,50,000 | 5,70,927 | 5,59,200 | 555512 |
| (iii) BCG | " | 5,50,000 | 6,23,252 | 5,59,200 | 607648 |
| (iv) Measels | " | 5,50,000 | 5,04,848 | 5,59,200 | 493680 |
| (v) T.T. for pregnant women | " | 5,70,000 | 6,05,268 | 5,94,150 | 542860 |
| (vi) DT | " | 5,21,107 | 2,08,046 | 5,20,507 | 340592 |
| (vii) T.T. for 10 years | " | 4,96,419 | 2,83,313 | 1,35,282 | 274388 |
| (viii) T.T. for 16 years | " | 4,96,419 | 2,80,277 | 4,96,419 | 277446 |
| b. Prophylaxis against nutritional anaemia | | | | | |
| 1. Women | " | 5,50,000 | 4,07,482 | 5,50,000 | 612475 |
| 2. Children | " | 5,50,000 | 4,04,635 | 5,50,000 | NA |
| c. Prophylaxis against blindness due to Vitamin A deficiency children | | | | | |
| | " | 4,67,500 | 3,52,713 | 4,67,480 | 1013773 |

Table 9.28

Expenditure on Family Welfare Programme

| Year | Both Plan & Non Plan Amount (Rs. 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 | 5367.20 (RE) |

Expenditure on Health

9.39 The expenditure on Medical and Public Health (excluding family welfare) stood at Rs.27.58 crores in 1975-76 which increased to Rs.48.81 crores in 1980-81, Rs.98.57 crores in 1985-86, Rs.181.17 crores in 1990-91 and to Rs.201.07 crores in 1992-93. The plan and non plan expenditure from 1975-76 to 1993-94 are given in Table 9.29 and shown in Fig.9.8. The per capita expenditure increased from Rs.46 in 1985-86 to Rs.110 in 1993-94 thus showing an increase of 139 per cent. The relevant data are given in table 9.30.

Table 9.29

Plan and Non-Plan Expenditure on Medical and Public Health in Kerala excluding Family Welfare Programme

| Year | 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 | 3016.85 | 25054.59 | 28071.44 |

Table 9.30

Per Capita Expenditure on Medical and Public Health

| Year | Population (lakh) | Expenditure health including family Welfare (Rs lakhs) | Index of growth | Expenditure per. head (Rs.) | Index of Growth |
|---------|----------------------|--|--------------------|-----------------------------------|--------------------|
| 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 | 33438.64 (RE) | 267 | 110.39 | 239 |

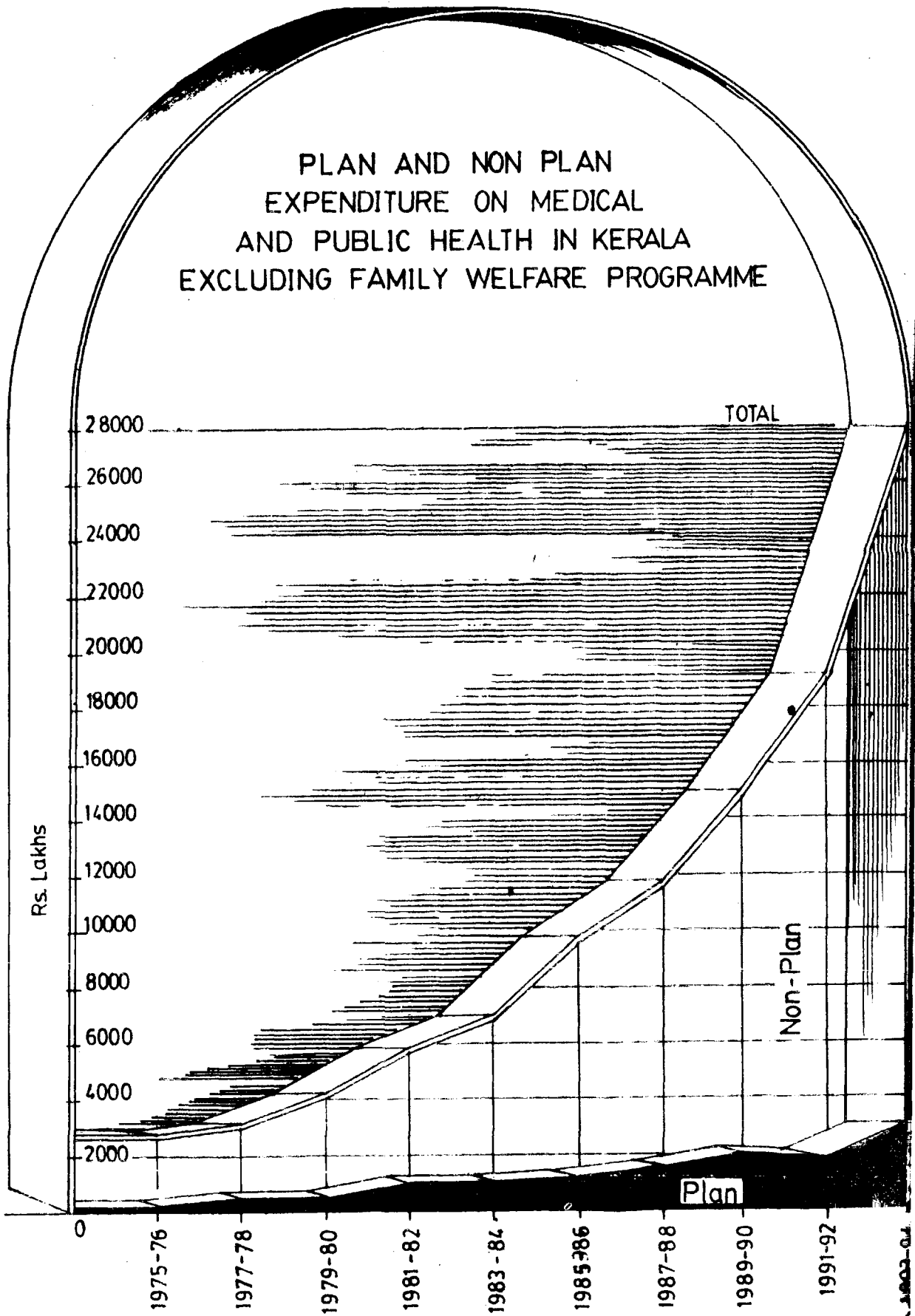


Fig 9.8

WATER SUPPLY AND SANITATION

Introduction

9.40 There are 197 towns including 3 Corporations and 60 Municipalities in the State with an Urban population of 76.76 lakhs as per 1991 Census. The rural population over the corresponding period was 214.18 lakhs. Over the years of development effort protected drinking water could be provided to about 43.75 per cent of rural population and 64.5 per cent of urban population. In the state nearly 4,64,000 houses were connected with piped water supply as on 31.10.1994 which constituted nearly 5.75 per cent. According to accelerated water supply norms every stand post is to benefit a population of 250 and as on 31-10-1994, 106300 stand posts were installed. Details of piped water supply and stand posts are given in Table 9.31. Besides the state intervention, available estimates suggest that there are more than 5 lakh private drinking water wells in the state.

Rural and Urban Water Supply

9.41 There were 1400 rural water supply schemes in operation in the State as on 1-4-1994. The rural population covered potable water supply stood at 88.35 lakhs. District-wise details of population covered under rural water supply schemes are given in Appendix 9.29. There were 545 on going schemes as on 1-4-1994 of which 32 were urban water supply schemes. Nearly 64.5 per cent of the urban population are benefited under urban water supply schemes as on 1-4-1994. Districtwise details of population covered under urban water supply schemes are given in Appendix 9.30

Table 9.31

Service level of the existing water supply system in the State as on 31-10-1994

| Sl. No. | District | House connection number | Stand posts number |
|---------|--------------------|-------------------------|--------------------|
| 1. | Thiruvananthapuram | 1,31,000 | 10,500 |
| 2. | Kollam | 33,000 | 8,600 |
| 3. | Pathanamthitta | 3,500 | 5,200 |
| 4. | Alappuzha | 32,000 | 11,400 |
| 5. | Kottayam | 13,00 | 6,900 |

| | | | |
|-------|------------|----------|----------|
| 6. | Idukki | 3,250 | 2,500 |
| 7. | Eranakulam | 1,40,000 | 20,000 |
| 8. | Thrissur | 31,000 | 11,500 |
| 9. | Palakkad | 24,000 | 9,300 |
| 10. | Malappuram | 16,000 | 7,600 |
| 11. | Kozhikode | 15,000 | 5,800 |
| 12. | Wayanad | 1,250 | 1,600 |
| 13. | Kannur | 13,000 | 3,200 |
| 14. | Kasaragod | 8,00 | 2,200 |
| Total | | 4,64,000 | 1,06,300 |

Schemes benefiting Scheduled Castes and Scheduled Tribes

9.42 During 1985-86 to 1991-92, 485 rural water supply schemes were commissioned and 3 urban water supply schemes partially commissioned in the State. Of these, 281 schemes were exclusively for the benefit of Scheduled Castes and Scheduled Tribes. During 1992-93 and 1993-94 the number of water supply schemes commissioned were 178 and 159 respectively. This included 177 schemes under SCP and 24 under TSP. Details of population covered under rural water supply schemes are given in Table 9.32.

Coverage of Problem Villages

9.43 According to 1991 Census, the State had 1384 villages of which 1341 villages have been covered with water supply by atleast providing a single spot source. The remaining 43 villages were not covered. The total habitation in the state as per 1991 Census is 9776 and the total number of habitations covered upto 31-10-1994 were 7494. Which constituted 76.66 per cent. District-wise number of villages covered with protected water supply and population benefited are given in Table 9.33. Additional population covered year-wise is reflected in table 9.34.

Pricing of Water and Revenue

9.44 There has been considerable increase in the pricing of water supplied since 1991. The internal revenue has increased from Rs.18.70 crores in 1993 to Rs.27.53 crores in 1994. The details are provided in Table 9.35.

Flow of funds

9.45 Besides state resource funds/assistance was received from LIC, HUDCO etc., for the implementation of schemes. Details of flow of funds are given in table 9.36. During 1993-94 Rs.43.76 crores was received under different sources.

Table 9.32

Habitation-wise distribution and percentage of population provided with safe drinking water as on 31-10-1994

| Population covered | No. of Habitations |
|----------------------|--------------------|
| upto 25% | 2074 |
| Between 25% and 50% | 2091 |
| Between 50% and 75% | 1706 |
| Between 75% and 100% | 1624 |
| Total | 7495 |

Table 9.33

District-wise details of problem villages covered as on 31-10-1994

| Sl. No. | District | Villages covered | Population benefited |
|---------|--------------------|------------------|----------------------|
| 1. | Thiruvananthapuram | 89 | 1023293 |
| 2. | Kollam | 90 | 849314 |
| 3. | Pathanamthitta | 62 | 338140 |
| 4. | Alappuzha | 71 | 881829 |
| 5. | Kottayam | 88 | 709268 |
| 6. | Idukki | 62 | 337162 |
| 7. | Eranakulam | 87 | 964615 |
| 8. | Thrissur | 192 | 1167671 |
| 9. | Palakkad | 155 | 1167727 |
| 10. | Malappuram | 116 | 642976 |
| 11. | Kozhikode | 87 | 455373 |
| 12. | Wayanad | 48 | 218089 |
| 13. | Kannur | 78 | 262574 |
| 14. | Kasaragod | 116 | 305539 |
| | Total | 1341 | 9323570 |

Table 9.34

Additional Population covered every year since 1985-86 (in lakhs)

| Year | total | SC | ST |
|--------------|---------------|--------------|--------------|
| 1985-86 | 5.100 | 0.480 | 0.060 |
| 1986-87 | 2.416 | 0.255 | 0.048 |
| 1987-88 | 5.150 | 0.797 | 0.104 |
| 1988-89 | 5.240 | 0.668 | 0.321 |
| 1989-90 | 4.800 | 0.950 | 0.100 |
| 1990-91 | 4.360 | 0.930 | 0.074 |
| 1991-92 | 5.940 | 0.870 | 0.090 |
| 1992-93 | 4.990 | 1.010 | 0.118 |
| 1993-94 | 3.780 | 0.705 | 0.064 |
| Total | 41.770 | 6.665 | 0.979 |

Table 9.35

Demand by Water Charge and Revenue Collected by the Kerala Water Authority

| Year | Revenue (Demand) from water charge | Revenue collected |
|---------|------------------------------------|-------------------|
| 1985-86 | 1513 | 315 |
| 1986-87 | 1400 | 629 |
| 1987-88 | 1658 | 853 |
| 1988-89 | 1699 | 915 |
| 1989-90 | 2110 | 1504 |
| 1990-91 | 2197 | 1685 |
| 1991-92 | 2221 | 1315 |
| 1992-93 | 3066 | 1870 |
| 1993-94 | 4231 | 2753 |

(Rs. lakh)

Table 9.36

Flow of funds from LIC, HUDCO, Government of India and external agencies (Rs. lakhs)

| Year | Flow of funds from | | | | | | Total |
|-----------|--------------------|--------|------------|------------------------|--------|---------------------|---------|
| | HUDCO | LIC | World Bank | Netherlands Government | DANIDA | Government of India | |
| 1992-93 | 1455.00 | 100.00 | 273.73 | 380.62 | 120.00 | 1217.00 | 3546.35 |
| 1993-94 * | 100.16 | 157.60 | 516.78 | 735.67 | 739.06 | 2127.00 | 4376.21 |

Sanitation

9.46 According to data published in Sarvekshana (January - March 1992) 51.54 per cent of the households in Kerala were without any mode of sanitary latrines. Out of the 55.21 lakhs house holds based on NSS estimates about 29 lakhs house holds are without latrinal facilities. During 1993-94 state assistance was extended for the construction of about 17000 latrines.

household in Kerala was 5.3 persons while it was 5.6 persons for all India.

9.49 It is estimated that out of 54.59 lakh houses, about 20 per cent (11 lakhs) is thatched huts of semi permanent nature. About 50 per cent of the above category are substandard huts which are not fit for safe human living. In addition about 5 per cent of the existing houses required to be demolished and reconstructed. Thus the housing demand existed during 1991 was as given below.

Expenditure on Water Supply

9.47 The total expenditure on water supply and sanitation incurred by the State during 1992-93 was Rs.69.34 crores. The corresponding figure for 1993-94 was Rs.56.79 crores. The income and expenditure of the Kerala Water Authority since 1986-87 is given in Appendix 9.31.

| | (in lakhs) |
|---|------------|
| Numerical shortage during 1991 | 0.54 |
| No. of substandard huts which need to be reconstructed | 5.50 |
| No. of houses which require major repair/reconstruction | 2.70 |
| | ----- |
| | 8.74 |
| | ===== |

HOUSING**Demand for Housing**

9.48 According to 1991 Census there were 54.59 lakh houses and 55.13 lakh households, indicating a numerical shortage of 54000 houses as against 1.56 lakhs according to 1981 Census. The underlying factor for reduction in shortage was that rate of growth of residential houses during 1981-91 was 27.64 per cent against population growth of 14.32 per cent. The average size of

9.50 It is projected that the population would increase by 38 lakhs from 290 lakhs in 1991 to 328 lakhs in 2000 AD. Assuming the average household size as 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 about 16 lakhs.

Total Construction of Houses in the State

9.51 During 1991-94 about 1.90 lakh houses were constructed by the public sector agencies under various housing schemes. It is estimated that between 60000 and 70000 houses are constructed every year in the private sector. During the four year period 1991-94 about 2.6 lakh houses would have been constructed in the private sector assuming an average of 65000 units per year. The fact remains that as against the demand for 16 lakh houses during 1991-2000, 4.5 lakh houses were constructed by both the private and Public Sector agencies. Thus during the next 6 year period about 11.5 lakh houses are to be constructed as an average of 1.9 lakh houses per year in the State.

Construction of Houses by major Public Sector Agencies

9.52 An overview of achievements under housing sector would show that more than 2.20 lakh houses were constructed in the State by all public sector agencies till 31-3-1985. There was a shift in emphasis towards EWS housing and out of 5.24 lakh houses constructed during 1986-1994 the major part of it was for the economically weaker section. As on 31-3-1994, 7.44 lakh houses were constructed by the public agencies and the relevant data are furnished in table 9.37.

9.53 Though there are more than 30 major agencies implementing housing programmes, the major departments/bodies concerned are the Revenue Department, Housing Department, Finance Department, Rural Development Department, Kerala State Housing Board, Kerala State Development Corporation for Scheduled Castes and Scheduled Tribes, Kerala State Housing Co-operative Federation, Development Authorities etc.

Involvement of Institutional Finance for Housing

9.54 During the period 1990-91 to 1993-94 the Kerala State Housing Board has raised about Rs.184 crores. The Kerala State Co-operative Housing Federation raised more than Rs.177 crores till March 1994 from the very inception of the Federation. During 1993-94, the Kerala State Housing Board and Kerala State Co-operative Housing Federation together have raised more than Rs.56 crores for housing activities in the State.

9.55 Housing Board is the major public agency which implemented/implementing 2 major schemes. As on 31-3-1994, the Housing Board had constructed/extended assistance for the construction of about 2.85 lakh houses under various schemes. During April to October 1994, the board has extended assistance/constructed 13831 houses/flats. Public housing scheme and cash loan scheme are the major ones implemented by the housing board. During 1993-94, 188 houses were constructed under the public housing scheme and from April to October 1994, 180 houses were constructed under the public housing scheme. During 1993-94, cash loan was extended to 462 persons and out of which 2830 were for economically weaker sections and 937 were for low income groups. Besides loan facilities were extended to 2997 persons from April to October 1994. Of which 1907 loans were for economically weaker sections and 660 loans were for low income groups. Under the scheme housing complexes in panchayats assistance was extended for the construction of 996 houses during 1993-94 and for 726 houses from April to October 1994. Further 8879 houses were also constructed under Kairali Housing Scheme during this period. Construction of houses for the flood victims is in progress and it is expected to complete

TABLE - 9.37

Achievement in Housing - Major Schemes

| Sl. No. | Scheme | Upto 31.3.1985 | 1985-86 | 1986-87 | 1987-88 | 1988-89 | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 |
|---------|---|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. |
| 1. | Provision of House-sites to rural landless workers | 4841 | 3022 | 5517 | 1869 | 2903 | 2179 | 2634 | 2585 | 2214 | 2402 |
| 2. | Huts/Houses for rural workers | 7740 | 700 | 974 | 366 | 852 | 335 | 396 | 335 | -- | -- |
| 3. | Village Housing Project | 10453 | -- | -- | -- | -- | 29 | 52 | 72 | -- | -- |
| 4. | Low Income group housing | 10514 | 184 | -- | -- | -- | 28 | 66 | 2240 | 1131 | 3767 |
| 5. | Middle Income Group Housing | 4402 | 113 | 59 | 22 | 27 | 53 | 68 | 1119 | 603 | 1621 |
| 6. | Co-operative housing scheme for economically weaker section | 49537 | 2427 | 2625 | -- | -- | -- | -- | -- | -- | -- |
| 7. | Subsidised aided self help housing scheme with co-operation of voluntary agencies | 15460 | 12125 | 2090 | -- | -- | -- | -- | -- | -- | -- |
| 8. | Rental Housing Scheme | 4687 | 152 | -- | -- | 11 | 78 | 258 | 84 | -- | 16 |
| 9. | Public Housing Scheme | 11117 | 528 | 613 | 544 | 488 | 178 | 216 | 478 | 822 | 188 |
| 10. | Kudikidappukar Housing | 5351 | 743 | 212 | -- | -- | -- | -- | -- | -- | -- |
| 11. | Scheduled Caste/Scheduled Tribe Development Corporation | 21047 | 3870 | 2215 | 1916 | 675 | 1283 | 1249 | 739 | 1060 | 1683 |
| 12. | Tribal Welfare Department | 3660 | 590 | 90 | 350 | 377 | 286 | 404 | 583 | 626 | 880 |

| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. |
|--|----|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 13. Scheduled Caste Development Department | | 18076 | 313 | 159 | 1166 | 957 | 1131 | 818 | 985 | 1135 | 2030 |
| 14. Fishermen housing | | 16313 | 17019 | 2290 | 3870 | 6143 | 869 | 2211 | 63 | 2423 | 1547 |
| 15. Kerala State Co-operative Housing Federation | | 20743 | 4869 | 8387 | 8658 | 6716 | 3502 | 4577 | 5313 | 5563 | 6231 |
| 16. Rehabilitation Housing Scheme | | -- | -- | 86837 | 9840 | 22062 | 6497 | 29611 | 5239 | 5621 | 32 |
| 17. N.R.E.P. | | 1570 | 2301 | 9544 | 7560 | 9451 | -- | -- | -- | -- | -- |
| 18. R.L.E.G.P. | | 2045 | 4802 | 14388 | 11040 | 8554 | -- | -- | -- | -- | -- |
| 19. Jawahar Rozgar Yojana | | -- | -- | -- | -- | -- | 22932 | 14225 | 22182 | 16533 | 16999 |
| 20. Other Schemes Implemented KSHB | | -- | -- | -- | -- | -- | -- | -- | 4755 | 6045 | 2256 |
| 21. Completed/Discontinued schemes | | 12308 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22. ROMHS Housing Complex | | -- | -- | -- | -- | -- | -- | -- | -- | -- | 996 |
| Total | | 220864 | 53758 | 136000 | 47201 | 59216 | 39374 | 56785 | 46772 | 43776 | 40648 |

Table 9.38

**Major Achievements under various Housing Schemes implemented by the
Kerala State Housing Board**

| S. No. | Name of Scheme | No. of houses/flats constructed upto 31-3-1994 | No. of houses/flats constructed during 1994 (April-October) |
|--------------|--|--|---|
| | (2) | (3) | (4) |
| 1. | Public Housing Scheme | 7206 | 180 |
| 2. | Rental Housing Scheme | 1713 | --- |
| 3. | Slum Clearance Scheme | 528 | --- |
| 4. | Working Journalist Housing Scheme | 213 | 18 |
| 5. | Co-operative Housing Scheme | 55495 | --- |
| 6. | SASH | 17950 | --- |
| 7. | Rehabilitation Housing Scheme | 169981 | 996 |
| 8. | Kairali Housing Scheme | 11800 | 8879 |
| 9. | Housing Scheme for MLAs/MPs | 58 | 6 |
| 10. | EWS Cash Loan Scheme | 3053 | 1907 |
| 1. | LIG Cash Loan Scheme | 7140 | 660 |
| 2. | MIG Cash Loan Scheme | 2840 | 363 |
| 3. | HIG Cash Loan Scheme | 1103 | 67 |
| 4. | Govt. Employees and Teachers Loan Scheme LIG | 681 | --- |
| 5. | " MIG | 336 | --- |
| 6. | " HIG | 89 | --- |
| 7. | Repairs and Renewal Loan Scheme - EWS | 1742 | --- |
| 8. | " LIG | 699 | --- |
| 9. | " MIG | 453 | --- |
| 10. | " HIG | 15 | 12 |
| 1. | Housing Schemes for Handloom Weavers | 63 | 5 |
| 2. | Housing Scheme for Beedi Workers | 424 | 1 |
| 3. | Housing Scheme for Plantation labourers | 26 | --- |
| 4. | ROMHS - Housing Complex | 996 | 726 |
| 5. | Housing Schemes for overseas Indians | --- | --- |
| 6. | Housing Schemes for Central Government Employees | 1 | 5 |
| 7. | Revenue Towers | --- | 6 |
| 8. | Housing Schemes for Flood Victims | --- | --- |
| Total | | 284605 | 13831 |

the construction of more than 10,000 houses during 1994-95. Achievements in the implementation of housing schemes by the Kerala State Housing Board upto 31-3-1994 and from April to October 1994 are given in Table 9.38.

9.56 Kerala State co-operative Housing Federation is extending financial assistance for the construction of houses through its 207 affiliated primary societies. As on 31-3-1994 the Federation has extended financial assistance for the construction of 69293 houses and disbursed more than Rs.213 crores. The Federation raised s.15.50 crores as loan from HUDCO and I.I.C and mobilised Rs.120 lakhs through debentures and disbursed more than Rs.27 crores for the construction of 6231 houses during 1993-94.

9.57 During 1993-94 2402 house sites were distributed to landless rural workers by the Board of Revenue. Out of this 1080 were for Scheduled Castes and 121 were for Scheduled Tribes.

9.58 House Building Advance to Government Servants is implemented by Finance Department and out of 7177 applications received and sanctioned and the amount disbursed from 1985-86 to 1993-94 are furnished in Table 9.39

Table 9.39

Number of applications received and sanctioned and amount disbursed under House Building Advance to Government Servants

| Year | No. of applications | No. of cases sanctioned | No. of pending cases | Amount disbursed (Rs.lakhs) |
|---------|---------------------|-------------------------|----------------------|-----------------------------|
| 1985-86 | NA | 1824 | NA | 500.35 |
| 1986-87 | NA | 2000 | NA | 620.50 |
| 1987-88 | NA | 2350 | NA | 793.32 |
| 1988-89 | NA | 2096 | NA | 699.87 |
| 1989-90 | 4481 | 2090 | 2391 | 694.17 |
| 1990-91 | 4484 | 2041 | 3443 | 900.00 |
| 1991-92 | 6490 | 2631 | 3859 | 1215.52 |
| 1992-93 | 7211 | 3191 | 4020 | 1709.33 |
| 1993-94 | 7177 | 3395 | 3782 | 1906.64 |

9.59 The Kerala State Development Corporation for SCs/STs, Scheduled Caste Development Department and Scheduled Tribe Development Department are implementing housing schemes for Scheduled Castes and Scheduled Tribes. The Scheduled Caste Development Department extended financial assistance for the construction of 2030 houses for SCs during 1993-94 and ST Development Department assisted 880 Scheduled Tribes. During 1993-94, Kerala State Development Corporation for SCs/STs assisted construction of 1783 houses to SCs and STs. The Rural Development Department under Jawahar Rozgar Yojana assisted/constructed 16999 houses during 1993-94 for those below poverty line in rural areas. Matsyafed and Fisheries Department together assisted construction of 1547 houses to those who were engaged in fishing activities. The scheme-wise achievements under major schemes since inception is given in Table 9.37.

URBAN DEVELOPMENT

9.60 According to 1991 census, the urban population in Kerala is 76.80 lakhs. This constitutes 26.39 per cent of the total population in the State. There are 197 census towns including three city corporations, 59 municipalities, one cantonment, two townships and 132 other urban centres. The major agencies involved in the implementation of development schemes in the urban local areas include Town Planning Department, Municipal Administration Department and Development authorities. Besides, the Kerala Urban Development Finance Corporation provides financial assistance to urban local bodies for implementing development schemes.

(a) Town Planning Department

9.61 The preparation of development plans, master plans and spatial plans for urban and rural areas, agro-industrial centres, pilgrim centres and tourist centres, providing technical assistance to development authorities and urban local bodies on enforcement and implementation of development plans etc. are the functional responsibilities of the Town Planning Department. The Schemewise details of financial and physical

Achievements of the department are given in Table 9.40 and 9.41 respectively.

Table 9.40

Scheme-wise outlay and expenditure of the Town Planning Department

(Rs. lakhs)

| Scheme/Project | 1992-93 | | 1993-94 | |
|---|---------------|---------------|--------------|--------------|
| | Outlay | Expenditure | Outlay | Expenditure |
| (1) | (2) | (3) | (4) | (5) |
| Financial Assistance/Loan to all Development Authorities other than CDA, GCDA and TDA | 79.00 | 70.00 | 35.00 | 35.00 |
| Financial Assistance/Loan to Municipalities and Town Ship Committees | 21.00 | 29.00 | 23.50 | 23.50 |
| District Town Planning Units (Kasaragod and Wayanad) | 6.10 | 5.74 | 9.10 | 9.08 |
| Training of Staff/Apprentices in Town and Country Planning | 0.41 | 0.29 | 0.59 | 0.59 |
| Capital City Development Programme | 5.00 | 5.00 | --- | --- |
| Total | 111.51 | 110.03 | 68.19 | 68.17 |

Source : Town Planning Department, Kerala.

Table 9.41

Physical Achievements of the Town Planning Department

| Scheme | 1992-93 | 1993-94 |
|---|---------|---------|
| (1) | (2) | (3) |
| D.T.P. Schemes | | |
| Sanctioned by Government | 4 | 4 |
| Draft Schemes Prepared and Forwarded to Local Bodies for Publication | 5 | 12 |
| Schemes under preparation and processing | 73 | 56 |
| Awaiting sanction of Government | 2 | 5 |
| Master Plans for Towns | | |
| Sanctioned by Government | 1 | --- |
| Under preparation and processing for final approval | 27 | 15 |
| Awaiting sanction of Government | 2 | 1 |
| Project Reprots for IDSMT | 3 | 3 |
| Schemes of Urban Local Bodies for which layout Plans prepared | 113 | 104 |
| Layout Plans and Site Approvals | 439 | 518 |
| Factorysites approved under Kerala Factory Rules | 195 | 95 |
| Cases of enforcement of building rules and Town Planning Schemes Dealt with | 7593 | 8386 |

Source : Town Planning Department, Kerala.

(b) Municipal Administration

9.62 The Department of Municipal Administration is concerned with the implementation of plan schemes in urban local bodies such as environmental improvement of urban slums, urban basic service programmes, Nehru Rozgar Yojana etc. The environmental improvement of urban slums has benefited 25,968 persons as against the target of 25,000 during 1993-94. Similarly, about one lakh persons have been covered

under the urban basic service programme. The Nehru Rozgar Yojana is envisaged for creation of employment opportunities to the urban people living below the poverty line. Altogether 7760 micro enterprises have been organised. 39080 dwelling units have been upgraded and 127280 mandays of employment have been generated by implementing various schemes under Nehru Rozgar Yojana during 1992-94. The scheme wise financial and physical achievements during 1992-93 and 1993-94 are given in Table 9.42.

Table 9.42

**Scheme-wise Financial and Physical Achievements
(Municipal Administration)**

| Scheme/Project | Financial (Rs. lakhs) | | Unit | Physical | |
|---|-----------------------|---------------|---|------------------------|-------------------------|
| | 1992-93 | 1993-94 | | 1992-93 | 1993-94 |
| 1. Slum Improvement Scheme | 130.00 | 130.00 | No. (persons) | --- | 25968 |
| 2. Non Remunerative Town Improvement Scheme | 20.00 | 20.00 | -- | --- | --- |
| 3. Urban Basic Service Programme | 20.00 | 35.00 | No. (Towns) | 13 | 13 |
| 4. Integrated Development of Small and Medium Towns | 131.85 | 100.00 | " | --- | 23 |
| 5. Urban Basic Services for the poor | 55.50 | 39.58 | " | 14 | 14 |
| 6. Nehru Rozgar Yojana | 315.58 | 74.56 | Micro Units Mandays of Work Dwelling Units | 2702 107960 7215 | 7760 127280 39080 |
| Total | 672.93 | 399.14 | | | |

Source : Directorate of Municipal Administration Kerala

(c) Major Development Authorities

9.63 The Thiruvananthapuram Development Authority has completed the construction of shopping complex at Kesavadasapuram and the mini shops near flyover, Palayam. The construction of shopping complex at Palayam and Land Acquisition of Chalai market scheme are in progress. The authority, with the assistance of Housing and Urban Development Corporation as extended loan assistance for construction of 125 houses. The total amount spent by the authority during 1993-94 for its various

development schemes works out to Rs.367.00 lakhs.

9.64 The development activities of the Greater Cochin Development Authority involve area development, city beautification, formation of development centres etc. with the financial assistance from Central and State Governments, Housing and Urban Development Corporation, Kerala Urban Development Finance Corporation, Housing Development Finance Corporation etc. The construction of agricultural markets at Maradu and

Moovattupuzha taken up by the authority is in progress. The dredging work of the second stage of Cochin Marine Drive has completed and the construction of international stadium has started. Besides, the authority has distributed loans to 196 beneficiaries for construction, repair and renovation of houses. The total investment of the authority for various development projects during 1993-94 was Rs.364.91 lakhs.

9.65 The construction of roads and drains in Jawahar Housing Colony, the site development works for the agricultural markets at Vengeri and Sultan bathery are the major development schemes taken up by the Calicut Development Authority during 1993-94. An amount of Rs.104.31 lakhs has been spent by the authority during the year for the above projects.

9.66 Altogether 15 town planning and town improvement schemes promoted by the Kollam Development authority are under different stages of implementation. The authority has given loan assistance for construction of 41 houses. The expenditure of the authority for development works during 1993-94 was Rs.31.98 lakhs.

9.67 The financial achievements of the elected development authorities are given in table 9.43

Table 9.43

Financial achievement of selected Development Authorities

| Development Authorities | Expenditure (Rs. lakhs) | |
|--|-------------------------|---------------|
| | 1992-93 | 1993-94 |
| (1) | (2) | (3) |
| Thiruvananthapuram Development Authority | 418.00 | 367.00 |
| Greater Cochin Development Authority | 44.25 | 49.40 |
| Calicut Development Authority | 71.79 | 57.53 |
| Kollam Development Authority | 119.02 | 31.98 |
| Total | 653.06 | 505.91 |

Source : Development Authorities

(d) Kerala Urban Development Finance Corporation

9.68 The Kerala Urban Development Finance Corporation is an agency which provides financial assistance to urban local bodies for undertaking construction works such as commercial complexes, office buildings, roads, town hall etc. Training programmes on subjects related to urban development are also arranged by the Corporation for the benefits of elected representatives and staff of urban local bodies. Besides, the Corporation is the nodal agency of Housing and Urban Development Corporation for certain centrally sponsored schemes such as the Nehru Rozgar Yojana, Low Cost Sanitation etc. The Corporation has so far extended financial assistance by way of loan to 612 schemes sponsored by various urban local bodies. Of this 494 schemes have been completed and 118 works are under different stages of implementation. The cumulative financial investment by the Corporation amounted to Rs.56.74 crores. Of which Rs.3.81 crores has been released during 1993-94 for implementing 36 schemes.

Industrial Training

9.69 The Department of Industrial Training is implementing the Craftsman Training and Apprenticeship Training in the State. The training infrastructure consists of 28 Government Industrial Training Institutes including 8 women ITIs with a seat strength of 11480, 8 Related Instruction Centres, 2 AVTS and a Basic Training Centre. Besides there are 375 Industrial Training Centres with a seat strength of 34750 in the Private sector. Though new ITIs were not started in the Government sector during the year under review, the ITCs in the Private Sector increased from 344 in 1993 to 375 in 1994. Also 41 production centres formerly with the Scheduled Castes/Tribes Departments were upgraded to the level of ITCs. District-wise details of ITIs and ITCs with intake capacity are given in Table 9.44.

9.70 Out of the annual intake of 46230 students Government ITIs impart training to 25 per cent of the total students in 17 trades with two year duration and 15 trades with one year duration where as the Private ITCs are imparting training to 75 per cent of the students in 14 trades

with two year duration and in 19 trades with one year duration. During the year under review apprenticeship training was imparted to 4495 candidates out of which 297 were Scheduled Castes,

9 Scheduled Tribes, 351 women and 14 physically handicapped. Besides, 234 students sponsored by the Keala State Welfare Fund Board were given training in 13 Government ITIs.

Table 9.44

District-wise number of Industrial Training Institutions and Seat strength in Kerala as on 31-12-1994

| Sl. No. | District | Number of Institution | | | Seat Strength | | |
|--------------|--------------------|-----------------------|----------------|------------|---------------|----------------|--------------|
| | | Govt. I.I.I. | Private I.T.I. | Total | Govt. I.T.I. | Private I.T.I. | Total |
| 1. | Thiruvananthapuram | 5 | 56 | 61 | 3000 | 4552 | 7552 |
| 2. | Kollam | 2 | 42 | 44 | 1032 | 4836 | 5868 |
| 3. | Pathanamthitta | 1 | 32 | 33 | 176 | 3250 | 3426 |
| 4. | Alappuzha | 2 | 44 | 46 | 864 | 4888 | 5752 |
| 5. | Idukki | 1 | 7 | 8 | 224 | 556 | 780 |
| 6. | Kottayam | 2 | 31 | 33 | 1092 | 3988 | 5080 |
| 7. | Eranakulam | 2 | 50 | 52 | 880 | 6440 | 7320 |
| 8. | Thrissur | 3 | 32 | 35 | 1068 | 2480 | 3548 |
| 9. | Palakkad | 2 | 16 | 18 | 800 | 672 | 1472 |
| 10. | Wayanad | 1 | 3 | 4 | 144 | 160 | 304 |
| 11. | Malappuram | 1 | 12 | 13 | 264 | 720 | 984 |
| 12. | Kozhikkode | 3 | 20 | 23 | 880 | 1168 | 2048 |
| 13. | Kannur | 2 | 24 | 26 | 944 | 880 | 1823 |
| 14. | Kasaragod | 1 | 6 | 7 | 112 | 160 | 272 |
| Total | | 28 | 375 | 403 | 11480 | 34750 | 46230 |

9.71 The Skill Development Project of modernisation of ITIs is under implementation from 1989-90 at a cost of 15.08 crores. Under the project old and obsolete tools and equipment of 15 ITIs were replaced and 4 Machine Maintenance Cells and one Machine Maintenance Workshop were started. Audio-Visual aids were provided in 15 ITIs. Further, five Women ITI wings were started in the ITIs at Chengannur, Kalamassery, Chalakudy, Palakkad and Kannur and new trades were introduced in 5 ITIs.

Trade-wise strength in ITIs and ITCs

9.72 An analysis of the intake in different courses would show that about 26 per cent are undergoing one year course while about 74 per cent are two year course. Out of the total intake in Government ITIs about 31 per cent are undergoing one year course and 69 per cent two year course whereas in the private ITCs about 24 per

cent are undergoing one year course and 76 per cent two year course. Out of 3543 students admitted in Government ITIs under 15 trades in the one year course more than 23 per cent (823) are girls and about 10 per cent belongs to SCs/STs (271 SCs and 65 STs). The intake in the private ITCs would show that out of 7943 students admitted under 19 trades in one year course more than 37 per cent (2975) are girls and that belonging to SCs and STs are less than 5 per cent (386 SCs and 26 STs). Out of 7896 students admitted in Government ITIs for 17 trades in two year course a little more than 16 per cent (1269) are girls and about 12 per cent constituted SCs and STs (621 SCs and 304 STs). While out of 25056 students admitted in private ITCs for 14 trades in two year course about 19 per cent are girls and only less than 3 per cent belonged to SCs and STs (593 SCs and 38 STs). The trade wise intake in Government ITIs and Private ITCs are given in tables 9.45 and 9.46.

Table 9.45

Trade-wise intake in Government ITIs and private ITCs during 1993-94

| Sl. No. | Industrial Training Institutes | | Industrial Training Centres | |
|---|--------------------------------|----------------|-----------------------------|----------------|
| | Total Intake | Of which Girls | Total Intake | Of which girls |
| 1. Forger and Heat Treater | 352 | --- | 32 | --- |
| 2. Carpenter | 384 | 40 | 256 | --- |
| 3. Dress making | 88 | 88 | 272 | 152 |
| 4. Mechanic (Diesel) | 144 | --- | 496 | --- |
| 5. Mechanic (Tractor) | 64 | --- | --- | --- |
| 6. Moulder | 224 | --- | 32 | --- |
| 7. Plumber | 368 | --- | 1584 | --- |
| 8. Secretarial Practice | 51 | 51 | 90 | 69 |
| 9. Stenography (Eng.) | 432 | 240 | 1440 | 512 |
| 10. Stenography (Hindi) | 52 | 52 | 43 | 28 |
| 1. Sheet metal workers | 282 | 82 | 32 | 4 |
| 2. Welder | 696 | --- | 348 | --- |
| 3. Upholstery | 14 | --- | --- | --- |
| 4. Data preparation and computer software | 328 | 266 | 2840 | 2020 |
| 5. Plastic processing operator trade | 64 | 4 | --- | --- |
| 6. Cutting and Tailoring | --- | --- | 272 | 150 |
| 7. Hand compositor and proof reading | --- | --- | 80 | 40 |
| 8. Photography | --- | --- | 16 | --- |
| 9. Hair and skin care | --- | --- | 16 | --- |
| 10. Preservation of fruits and vegetables | --- | --- | 32 | --- |
| 1. Letter press machine-minder | --- | --- | 48 | --- |
| 2. Book binder | --- | --- | 14 | --- |
| Total | 3543 | 823 | 7943 | 2975 |

Table 9.46

Trade-wise Annual intake in Government ITIs and private ITCs for two year course 1992-94

| Sl. No. | Industrial Training Institutes | | Industrial Training Centre | | |
|---------|--------------------------------|----------------|----------------------------|----------------|------|
| | Total Intake | Of which girls | Total Intake | Of which girls | |
| 1. | Draftsman Machanic | 192 | 29 | 560 | 189 |
| 2. | Draftsman Civil | 640 | 228 | 7120 | 2958 |
| 3. | Surveyer | 160 | 40 | 96 | 6 |
| 4. | Fitter | 1152 | --- | 4352 | --- |
| 5. | Turner | 612 | --- | 120 | --- |
| 6. | Mechanist | 564 | --- | 60 | --- |
| 7. | Mechanic (R&AC) | 416 | --- | 816 | --- |
| 8. | Instrument Mechanic | 160 | --- | --- | --- |
| 9. | Watch and Clock repair | 96 | 96 | --- | --- |
| 10. | Electrician | 816 | --- | 4924 | --- |
| 11. | Wireman | 768 | --- | 496 | --- |
| 12. | Electroplater | 16 | --- | 1392 | --- |
| 13. | Mechanic (Motor Vehicle) | 464 | --- | 1648 | 86 |
| 14. | Mechanic (Radio & TV) | 736 | 354 | 3376 | 1508 |
| 15. | Electronics | 960 | 520 | --- | --- |
| 16. | Painter (General) | 128 | --- | --- | --- |
| 17. | Mill wright mechanic | 16 | --- | 32 | --- |
| 18. | Tool and dye maker | --- | --- | 64 | --- |
| Total | | 7896 | 1269 | 25056 | 4747 |

CHAPTER 10

SPECIAL PROGRAMMES FOR WEAKER SECTIONS

According to 1991 census the rural population of Kerala accounts for nearly 74 per cent of the State's total population. As compared to their counterpart residing in the urban areas, the rural people have a much lower level of income and consumption per head as well as poor access to education, health, water supply and such other essential services. Improving the quality of the life of the rural population has been the focal point, and remains to be so, of our development planning. Integrated Rural Development Programme (IRDP), Jawahar Rozgar Yojana (JRY) and Employment Assurance Scheme (EAS) are some of the most important programmes aimed at for improving the living standards of the rural population. These programmes not only ensures a minimum wage to the rural workers but also enable them to acquire assets and income through self employment ventures. In order to reduce the highly skewed nature of asset distribution, especially land holdings, restructuring of agrarian relationships through land reforms is also part of the agenda for rural transformation. Poverty alleviation programmes were under implementation for more than a decade with substantial increase in outlays and coverage. The total investments so far made under IRDP has been estimated to be around Rs.513.14 crores and that of employment generation programmes like NREP and RLEGP till 1988-89 and JRY thereafter amounts to Rs.604 crores. Nevertheless unemployment continues to be a serious problem in the state. The quantum of assistance available under these centrally sponsored schemes is not adequate enough to make any significant dent on the unemployment problem faced by the State. It is estimated as per the family survey organised by the Rural Development Department in 1992 that nearly 17.86 lakh families are still below the poverty line. Hence the poverty alleviation programmes have to be continued more vigorously so as to make a tangible impact on the alleviation of poverty and on mitigating unemployment in the coming years. A brief review of the implementation of major poverty alleviation programmes are given in the following paragraphs.

1. Integrated Rural Development Programme (IRDP)

10.1. The integrated Rural Development Programme (IRDP) is one of the important and effective poverty alleviation programmes. The objective of this scheme is to assist poor families in rural areas to take up self employment ventures through a package of assistance comprising of subsidy and institutional credit. For identification of families eligible for assistance under the programme a comprehensive household survey was conducted in 1990 and the final list of families was published in 1992. A family with an annual income of Rs.11,000/- (at 1991-92 price level) or less is considered to be below poverty line. The survey revealed that a total number of 17.86 lakh families are below poverty line. The district-wise details of the survey is given in Table 10.1.

Table 10.1

Number of Families Below Poverty Line According to Social Groups as per 1992 Survey

| Sl. District | | No. of families | | | |
|--------------|--------------------|-----------------|-------|---------|---------|
| No. | | SC | ST | Others | Total |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Thiruvananthapuram | 34280 | 2161 | 166818 | 203259 |
| 2. | Kollam | 24438 | 95 | 161115 | 185668 |
| 3. | Pathanamthitta | 13895 | 722 | 54710 | 69327 |
| 4. | Alappuzha | 7871 | 47 | 126604 | 134522 |
| 5. | Kottayam | 4454 | 749 | 104073 | 109276 |
| 6. | Idakki | 10319 | 6422 | 59464 | 76205 |
| 7. | Ernakulam | 4208 | 118 | 11634 | 120690 |
| 8. | Thrissur | 27265 | 430 | 148321 | 176016 |
| 9. | Malappuram | 13470 | 1247 | 156209 | 170926 |
| 10. | Palakkad | 36614 | 4571 | 111526 | 152711 |
| 11. | Wayanad | 2023 | 16063 | 35673 | 53759 |
| 12. | Kozhikode | 9316 | 288 | 156933 | 166537 |
| 13. | Kannur | 1142 | 195 | 104897 | 106235 |
| 14. | Kasaragod | 7223 | 2555 | 53965 | 63743 |
| Total | | 196538 | 33664 | 1556672 | 1786874 |

Source :- Commissionerate of Rural Development, Kerala

10.2. In order to ensure timely assistance to the poorest of the poor families first, priority is given to rural families having annual income below the 'cut off' line of Rs.8500/- and among them families with an annual income below Rs.6000/- are assisted first. Since majority of Scheduled Castes/Scheduled Tribes and other backward class families are living below poverty line priority is given to beneficiaries of these groups. 50% of the families assisted are SC/ST and 40% of those assisted are women and 3% of beneficiaries are physically handicapped. Altogether, 53698 families were assisted during 1993-94 against the target of 49836. Physical and Financial achievements and subsidy disbursed under IRDP during 1980-81 to 1993-94 are given in Table 10.2

Table 10.2

Physical and Financial Achievements and Subsidy Disbursed under IRDP during 1980-81 to 1993-94

| Year | No. of Families Assisted | Bank Loan (Rs.lakhs) | Subsidy (Rs. lakhs) |
|--------------|--------------------------|----------------------|---------------------|
| (1) | (2) | (3) | (4) |
| 1980-81 | 58992 | 662.92 | 331.46 |
| 1981-82 | 96832 | 1221.34 | 610.67 |
| 1982-83 | 127798 | 2146.72 | 1173.36 |
| 1983-84 | 120547 | 2510.94 | 1255.47 |
| 1984-85 | 104816 | 2488.12 | 1241.76 |
| 1985-86 | 71367 | 1550.56 | 775.28 |
| 1986-87 | 143399 | 4021.96 | 775.28 |
| 1987-88 | 110684 | 3150.04 | 1575.02 |
| 1988-89 | 87006 | 3079.06 | 1539.53 |
| 1989-90 | 74150 | 3120.44 | 1560.22 |
| 1990-91 | 60877 | 2560.06 | 1702.09 |
| 1991-92 | 57562 | 2470.04 | 1613.53 |
| 1992-93 | 50517 | 2250.78 | 1485.29 |
| 1993-94 | 53698 | 2645.93 | 1797.03 |
| Total | 1218254 | 33878.91 | 17435.99 |

Source : Commissionerate of Rural Development, Kerala

2. TRYSEM

10.3. Under Trysem, training is imparted to rural youths in the age group of 18-35 belonging to families below the poverty line for enabling them to take up self employment in the

farm sector and industries, service and business sectors. It is expected to impart technical and entrepreneurial skill to the rural youth through this training. Trained rural youths are provided with necessary institutional credit facilities for acquisition of income generating assets. A total number of 5549 youths including 2239 Scheduled Castes, 145 Scheduled Tribes and 3742 women were trained during 1993-94 against the target of 6682. Nearly 74% of the trained persons have been settled, out of which 2112 were self employed and 2891 were wage employed. An amount of Rs.247.29 lakhs has been utilised for this programme.

3. Development of Women and Children in Rural Areas (DWCRA)

10.4. DWCRA is a sub scheme of IRDP introduced with the objective of assisting women members of rural families below poverty line to avail of self employment opportunities on sustained basis. Under this scheme group strategy is adopted where in members of DWCRA form groups of 10-20 women for taking up economic activities suited to their skill, aptitude and local conditions. Child care facilities are also provided to the children of working women. Against the target of 800 during 1993-94, 551 groups were formed, out of which 297 groups have started income generating activities benefiting 3571 persons including 816 SC/ST beneficiaries.

4. Jawahar Rozgar Yojana (JRY)

10.5. Jawahar Rozgar Yojana, an intensive wage employment programme was introduced in 1989-90 by merging the former NREP and RLEGP schemes. Creation of additional gainful employment for the unemployed and strengthening of rural economic infrastructure for improvement of quality of life in rural areas are the main objectives of this programme. JRY is implemented in all panchayats through 152 blocks and 14 DRDAs in the state. Since JRY is essentially an employment generating scheme, major share of the resources is utilised as wages. The expenditure under the programme is being shared between the centre and the state in the ratio of 80:20.

10.6. During 1993-94 Rs.7788.38 lakhs has been utilised for the programme, of which Rs 3179.32 lakhs was expended for the benefit of SC/ST. During the year 120.43 lakh man days was generated against the target of 113.47 lakhs.

10.7. Financial and physical achievements under rural development programmes during 1992-93 and 1993-94 are given in Table 10.3.

10.8. The Physical achievements under NREP, RLEGP and JRY from 1980-81 to 1993-94 are given in Table 10.4.

Table 10.3.

Physical and Financial Achievements under Rural Development Programmes during 1992-93 and 1993-94

| Programmes | Achievements | | |
|--|--------------|---------|---------|
| | Unit | 1992-93 | 1993-94 |
| (1) | (2) | (3) | (4) |
| I. (a) IRDP | | | |
| 1. Total Expenditure | Rs lakhs | 1770.80 | 1973.75 |
| 2. Families Assisted | No. | 50517 | 53698 |
| 3. SC Families Assisted | No. | 23810 | 24939 |
| 4. S.T. Families Assisted | No. | 1853 | 1969 |
| 5. Women Assisted | No. | 23770 | 25570 |
| 6. Subsidy Adjusted | Rs.lakhs | 1485.29 | 1797.03 |
| 7. Per Family Investment | Rs. | 7395 | 8274 |
| 8. SC Families | Rs. | 6643 | 7384 |
| 9. ST Families | Rs. | 6098 | 7047 |
| (b) Supply of Tool Kits to Rural Artisans | | | |
| | No. | 716 | 6658 |
| (c) Trysem | | | |
| 1. Total Youth Trained | No. | 7919 | 5549 |
| 2. Of which No. of SCs | No. | 2861 | 2239 |
| 3. Of which No. of STs | No. | 182 | 145 |
| 4. Of which No. of Women | No. | 1194 | 3742 |
| 5. Total No. Settled including Self Employed and Wage Employed | No. | 3856 | 4103 |
| 6. Percentage of Youth settled out of No. trained | % | 68 | 74 |
| (d) DWCRA | | | |
| 1. Women Groups Organised | No. | 319 | 551 |
| 2. Women Groups Functioning | No. | 299 | 297 |
| II. JRY | | | |
| 1. Total Expenditure | Rs.lakhs | 6843.94 | 7788.38 |
| 2. Mandays Generated | Lakh Mandays | 134.57 | 120.43 |

| | | | |
|--|-----------|---------|---------|
| 3. Foodgrains Utilised | M.T. Rice | 1220.16 | 354.17 |
| 4. No. of Houses Completed | No. | 16533 | 16999 |
| 5. New Roads Constructed | KM | 1767.19 | 1587.14 |
| 6. Sanitary Latrines Completed | No. | 4516 | 4620 |
| 7. Drinking Water Wells | No. | 309 | 359 |
| 8. Irrigation Canals | No. | 293 | 143 |
| 9. Area Planted under Social Forestry | Ha. | 31.78 | 257.61 |
| 10. No. of Seedlings and Fruit Plants Distributed | Lakhs | 34.48 | 51.74 |
| 11. Building Constructions (Schools and Other Buildings) | No. | 2222 | 3059 |
| III. KERAMs | | | |
| 1. Volume of Business Handled | Rs.lakhs | 27.28 | 33.27 |

Source : Commissionerate of Rural Development, Kerala

Table 10.4

Physical Achievements under NREP, RLEGP, and JRY

| Year | (Lakh Mandays Generated) | | | |
|---------|--------------------------|--------|--------|---------|
| | NREP | RLEGP | JRY | Total |
| (1) | (2) | (3) | (4) | (5) |
| 1980-81 | 97.00 | — | — | 97.00 |
| 1981-82 | 128.00 | — | — | 128.00 |
| 1982-83 | 93.08 | — | — | 93.08 |
| 1983-84 | 119.00 | — | — | 119.00 |
| 1984-85 | 142.00 | — | — | 142.00 |
| 1985-86 | 72.34 | 77.62 | — | 149.96 |
| 1986-87 | 105.32 | 113.72 | — | 219.04 |
| 1987-88 | 98.75 | 85.32 | — | 184.07 |
| 1988-89 | 149.57 | 74.11 | — | 223.68 |
| 1989-90 | — | — | 231.79 | 231.79 |
| 1990-91 | — | — | 180.96 | 180.96 |
| 1991-92 | — | — | 177.08 | 177.08 |
| 1992-93 | — | — | 134.54 | 134.54 |
| 1993-94 | — | — | 120.43 | 120.43 |
| | 1005.05 | 350.77 | 844.80 | 2200.63 |

Source :- Commissionerate of Rural Development, Kerala

5. Employment Assurance Scheme (EAS)

10.9. The Employment Assurance scheme was introduced in the State in 1993, with a view to provide gainful employment during lean agricultural season to persons in need of and desirous of work on non-farm or allied activities. The target group of beneficiaries include specifically

vulnerable families in backward areas, the landless, rehabilitated bonded labourers and the marginal groups. This programme is implemented in seven districts and an amount of Rs.171.20 lakhs has been utilised up to 1993-94. The expenditure is shared between centre and the state in the ratio of 80:20. The district-wise details are furnished in Table 10.5.

Table 10.5

| District-wise Financial and Physical achievements under Employment Assurance Scheme | | | | | | |
|---|----------------|----------------|-----------|----------------------------|----------------------------|------------------------|
| District | Blocks Covered | Works Taken up | Completed | Employment Generated (LMD) | Funds available (Rs.lakhs) | Expenditure (Rs.lakhs) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| Thiruvananthapuram | 3 | 56 | 20 | 0.55 | 112.50 | 37.50 |
| Kottayam | 2 | 13 | 7 | 0.21 | 75.00 | 14.30 |
| Idukki | 8 | 108 | 18 | 0.70 | 300.00 | 49.00 |
| Palakkad | 1 | 14 | — | 0.09 | 37.50 | 6.25 |
| Malappuram | 2 | 27 | 14 | 0.27 | 75.00 | 12.50 |
| Wayanad | 3 | 36 | 24 | 0.59 | 112.50 | 38.35 |
| Kannur | 2 | 36 | 6 | 0.19 | 12.50 | 12.50 |
| Total | 21 | 290 | 89 | 2.60 | 725.00 | 171.20 |

Source : Commissionerate of Rural Development, Kerala

6. Supply of Improved Tool Kits to Rural Artisans

10.10. This scheme was started during 1992-93 as 100% Centrally Sponsored in the three districts, namely; Thiruvananthapuram, Malappuram and Kozhikode. Subsequently the scheme was extended to the districts of Idukki, Thrissur, Palakkad, Kannur and Kasaragod. Under this programme a kit of improved tools costing Rs.2000/- is supplied to the selected rural artisans. The subsidy is limited to Rs.1800/- per artisans and a contribution of 10% of the cost of tool kit is obtained from the beneficiary. Generally the persons assisted under the scheme are blacksmithy, carpentry, goldsmithy, pottery, leather work, masonry, metal works etc. In a survey conducted in 1992 it was estimated that there are 64030 rural artisans in the eight districts in which the scheme is under implementation. A total number of 6658 rural artisans were

supplied tool kits during 1992-93 and 1993-94 for which an amount of Rs.110.43 lakhs has been utilised. Table 10.6 shows the district-wise details such as number of artisans identified, target fixed, artisans supplied with tool kits and amount utilised.

Table 10.6

Supply of Improved Tool Kits to Rural Artisans - District-wise Targets and Achievements during 1992-93 and 1993-94

| District | Total No. of Rural Artisans (According to 1992 Survey) | Physical Progress No. | | | Financial Achievement | |
|--------------------|--|-----------------------|-------------------|---------------------------------|---------------------------|------------------------|
| | | Target | Artisans selected | Artisans supplied with Tool Kit | Fund available (Rs.lakhs) | Expenditure (Rs.lakhs) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| Thiruvananthapuram | 17669 | 1300 | 1578 | 1283 | 29.42 | 11.94 |
| Idukki | 5159 | 1300 | 850 | 713 | 23.40 | 16.25 |
| Thrissur | 13158 | 1300 | 779 | 347 | 23.40 | 6.78 |
| Palakkad | 7412 | 1300 | 849 | 468 | 23.40 | 7.99 |
| Malappuram | 7473 | 1300 | 2199 | 1620 | 36.30 | 27.90 |
| Kozhikode | 5881 | 1300 | 1408 | 1133 | 28.03 | 18.48 |
| Kannur | 3377 | 1300 | 1300 | 761 | 23.40 | 14.47 |
| Kasaragod | 2901 | 1300 | 596 | 333 | 23.40 | 6.62 |
| Total | 64030 | 10400 | 9604 | 6658 | 210.75 | 110.43 |

Source : Commissionerate of Rural Development, Kerala

7. Kerala Rural Development and Marketing Society (KERAMS)

10.11. KERAMS was established in 1986 as an autonomous body registered under Travancore Cochin, Literacy, Scientific and Charitable Societies Registration Act. It provides marketing facility for products manufactured by IRDP beneficiaries, rural artisans, DWCRA units, Mahila Samajams, Voluntary organisations etc. and also make available raw materials required for their production units. "Gramasree" a permanent sales outlet for IRDP products is functioning in Thiruvananthapuram since 1987, and its sales proceeds during 1993-94 was 33.27 lakhs. A mobile sales unit was also started in 1990-91. Trade fairs were organised by KERAMS during Onam Festival in all district headquarters. It also participated in major trade fair and exhibitions outside the state. During 1993-94 three training

cum production centres of fruit processing, ready made garments and koragrass mats at Kozhikode, Kollam and Kottayam were organised with the financial support from NABARD. The sales proceeds of KERAMS for the last seven years are given in Table 10.7.

Table 10.7

Sale value of IRDP Products Through KERAMS

| Year | Sale Proceeds (Rs.lakhs) |
|---------|--------------------------|
| (1) | (2) |
| 1987-88 | 3.48 |
| 1988-89 | 6.54 |
| 1989-90 | 6.54 |
| 1990-91 | 9.47 |
| 1991-92 | 19.12 |
| 1992-93 | 27.28 |
| 1993-94 | 33.27 |

Source : Kerams

8 Peoples Action for Development Kerala (PAD-K)

10.12. Peoples Action for Development (Kerala) is an organisation registered during 1986 under the Travancore Cochin Literary, Scientific and Charitable Societies Registration Act. PAD(K) strengthens and promotes voluntary efforts in rural development by assisting voluntary organisations in implementation of rural development programmes. With specific focus on introducing new technological inputs into this field PAD(K) conducts seminars and camps to give publicity for rural development programmes and also to assist voluntary organisations to prepare projects for rural development. Assistance is made available from Council for Advancement of Peoples Action and Rural Technology (CAPART). It also functions as a liaison between CAPART and voluntary organisations in the state. During the year 1994, CAPART has sanctioned Rs.43.00 lakhs for implementation of various schemes through voluntary organisations. Further, project proposals for Rs.1.02 crores for different projects have also been sent to CAPART during 1994 for sanction. In addition to the above, three block level seminars have been conducted for training to representatives of voluntary organisations.

9. Kerala Rural Development Board

10.13. The Kerala Rural Development Board was set up in 1973 and the important activities of the Board are construction of shopping centres/complexes, market stalls, bus stands, lodging houses, office buildings; etc. The Board undertakes the above schemes in rural areas on the basis of specific requisition from panchayats. The funds required for the implementation of the schemes are raised by floating debentures from open market through nationalised banks with the permission of Reserve Bank of India, on the guarantee of the State Government. During 1994-95 the practice of open market borrowing by public sector under takings is dispensed with and the State Government assistance is provided as loan to the Board. The Board has so far completed 590 schemes and handed over to panchayats. Another 102 schemes are under various stages of execution. During the year 1993-94 the Board has spent Rs.380.43 lakhs for the implementation of various remunerative development schemes.

10 Land to Landless

10.14. The extent of land declared surplus as on 30-9-94 under land reform measures was 170991 acres. Out of which 94499 acres have been taken possession by the Government and 64132 acres were distributed up to the end of September 1994. The beneficiaries under the programme were largely from the category of Scheduled Castes and Scheduled Tribes. Annual target for the distribution of surplus land and the achievement since 1990-91 are given in Table 10.8. Category wise details are furnished in Appendix 10.1 to 10.3.

Table 10.8

Targets and Achievements under land Reforms

| Year | Target (No.) | Achievements (No.) | | |
|---------|--------------|--------------------|------------------|-------|
| | | Scheduled Castes | Scheduled Tribes | Total |
| (1) | (2) | (3) | (4) | (5) |
| 1990-91 | 1500 | 851 | 35 | 886 |
| 1991-92 | 3700 | 1990 | 116 | 2106 |
| 1992-93 | 3000 | 1231 | 15 | 1246 |
| 1993-94 | 2500 | 589 | 59 | 648 |

Source : Land Board, Kerala

10.15. For the effective implementation of land reforms, resurvey of the entire land in the State was initiated and the resurvey works are in progress in all districts except Kasaragod. Out of 32510 sq.kms. to be surveyed, field work has been completed in 22535.92 sq.kms. The work has been completed in an area of 18736.23 sq.kms. as at the end of July 1994. Out of 61 taluks in the state resurvey has been started in 46 Taluks of which field work has been completed in 21 taluks and it is in progress in 25 taluks. The progress of resurvey and updating of land records is given in Table 10.9.

Table 10.9

| Items | Progress of Work | | |
|--|------------------|---------|--------|
| | 1992-93 | 1993-94 | Total |
| (1) | (2) | (3) | (4) |
| I. Field Survey | | | |
| (a) No. of Revenue Villages Covered | 10 | 13 | 23 |
| (b) Extent of Area Covered (Sq.km) | 113.27 | 96.27 | 209.54 |
| II. Reconciliation with Revenue Records. | | | |
| No. of Villages Completed | 95 | 11 | 206 |
| III. Lamination of Land Records | | | |
| No. of villages (Records Laminated) | 198 | 118 | 316 |

Source : Directorate of survey and land records, Kerala

10.16. The assignees of surplus land are given financial assistance at the rate of Rs.2500 per hectare for agricultural development. During 1993-94 an amount of Rs.24.62 lakhs has been utilised against the outlay of Rs.30.00 lakhs. The achievement under the scheme during the last four years are given in Table 10.10.

Table 10.10

| Achievements under Financial Assistance to the Assignees of Surplus Land | | | | | |
|--|----------|---------|---------|---------|---------|
| Particulars | Unit | 1990-91 | 1991-92 | 1992-93 | 1993-94 |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. Total Amount Sanctioned | Rs.lakhs | 30.00 | 30.00 | 30.00 | 30.00 |
| 2. Amount Spent | " | 11.34 | 9.05 | 11.02 | 24.62 |

3. Beneficiaries

| | | | | | |
|----------------------|-----|------|------|------|------|
| (a) General | No. | 1523 | 1257 | 746 | 700 |
| (b) Scheduled Castes | " | 1292 | 960 | 1017 | 655 |
| (c) Scheduled Tribes | " | 74 | 45 | 222 | 120 |
| Total Beneficiaries | No. | 2889 | 2262 | 1985 | 1475 |

Source : Land Board, Kerala

Development Programmes of Panchayats

10.17. The scheme 'untied funds to panchayats' started as a preliminary step towards grass root level planning in the State continued during 1993-94 also. Under this scheme 'untied funds' is released to all panchayats so as to enable them to formulate and implement local need based programmes. The panchayats have been given freedom to chalkout and implement any scheme suited to the local area considering the felt needs of the people and assessing the availability of resources. The panchayats undertake various development activities such as construction and maintenance of village roads, small bridges, culverts, minor irrigation works, wells, construction and maintenance of public latrines, bus stands, shopping centres, marketing stalls, tube wells, extension of pipe line etc. utilising the funds. During 1993-94 an amount of Rs.2900.00 lakhs as against Rs.2100.00 lakhs during 1992-93 was utilised for this programme. The physical achievements during 1992-93 and 1993-94 are given in Table 10.11.

Table 10.11

| Physical Achievements under Untied Funds to Panchayats | | | | |
|--|--------------------------------|-------|---------|---------|
| Sl. No. | Scheme | Unit | 1992-93 | 1993-94 |
| (1) | (2) | (3) | (4) | (5) |
| 1. | Construction of New Roads | Km | 51570 | 13.370 |
| 2. | Improvement of Roads | " | 485.98 | 64.20 |
| 3. | Tarring and Metaling of Roads | " | 97031 | 8.69 |
| 4. | Soling of Roads | " | 35.123 | 6.95 |
| 5. | Construction of Bridge | No. | 83 | 13 |
| 6. | Construction of Foot Paths | Km. | 27.530 | 9405m |
| 7. | Construction of Compound walls | Metre | 3:25 | 921 |
| 8. | Construction of Culverts | No. | 189 | 15 |
| 9. | Construction of Slabs | Metre | 7.12 | 125 |
| 10. | Construction of Bus Stands | No. | 2 | 1 |
| 11. | Improvement of Bus stand | " | 10 | 1 |
| 12. | Shopping Complex/Market Stall | " | 55 | 4 |

| | | | |
|---|------|-------|------|
| 13. Construction of Houses | No. | 729 | 129 |
| 14. Improvement of Houses | " | 215 | 30 |
| 15. Construction of Library Buildings | " | 8965 | 1503 |
| 16. Construction of Anganvadi Buildings | " | 13 | — |
| 17. Construction of Community Halls | " | 14 | — |
| 18. Development of Public Houses | " | 29 | 2 |
| 19. Construction of Hospital Buildings | " | 18 | 3 |
| 20. Play Grounds | " | 11 | — |
| 21. Open Air Theatre | " | 7 | — |
| 22. Construction of Wells | " | 2 | 10 |
| 23. Drinking Water Scheme | " | 14 | 2 |
| 24. Tube Wells | " | 6 | — |
| 25. Extension of Pipe Line | Km | 14895 | 1955 |
| 26. Water Tap | No. | 113 | — |
| 27. Construction of Television Kiosk | " | 57 | 3 |
| 28. Instalation of Television sets | " | 84 | 3 |
| 29. Distribution of Sewing Machines | " | 88 | 75 |
| 30. Electrification of Houses | " | 3685 | 940 |
| 31. Sodium Vapour Lambs | No. | 183 | — |
| 32. Street Lights | " | 295 | — |
| 33. Distribution of Agricultural Implements | " | 15 | — |
| 34. Land Purchased | Acre | 2.47 | — |
| 35. Construction of Waiting Sheds | No. | 24 | 5 |
| 36. Boat Yards | " | 1 | — |
| 37. Electrification of Colonies | " | 1 | — |
| 38. Irrigation Bunds | M | 35 | — |
| 39. Extension of Electric Line | M | 2975 | 675 |
| 40. Distribution of School Uniform | No. | 57 | — |

Source: Directorate of Panchayats, Kerala

Self Reliant Villages

10.18. The self Reliant village scheme was introduced in the state during 1992-93 as a meaningful effort towards decentralised planning, development through peoples participation, rapid and sustained improvement in the quality of the life of the people etc. It aimed at making selected panchayats self reliant in the sense that the co-ordinated development of all development activities with active participation of people at all levels would bring gainful and well generating employment to the people through the exploitation of the resources of the area to the maximum extent and mobilisation of resources from financial institutions. It also aimed at the speedy flow of benefits of the existing departmental schemes to the people. On the basis of certain criteria a

total number of 113 panchayats were selected during 1992-93 and detailed action plans for each panchayats was prepared by a committee constituted for this purpose at the panchayat level; The allocation from sectoral schemes operated by the different departments form the corpus of the funds for the scheme. Financial assistance from State Government, financial institutions and beneficiaries are being utilised for the programme. Apart from this an outlay of Rs.113.00 lakhs and Rs.400.00 lakhs were separately provided for this scheme during 1992-93 and 1993-94 respectively.

10.19. The scheme was continued during 1993-94 in the panchayats already selected. During 1994-95, 12 more panchayats were selected. The total estimated cost of various programmes included in 113 Panchayats is Rs.185.25 crores. Against this the cumulative expenditure at the end of March 1994 is Rs.61.60 crores. The major programmes taken up are construction of roads, providing water supply facilities, electrification of houses, irrigation, agricultural development programmes, employment generating schemes etc. The district wise details of panchayats selected, outlay and expenditure are given in Table 10.12.

Table 10.12

District-wise Outlay and Expenditure Under Self Reliant Village Panchayats (As on 31-3-1994)

| Sl. No. | District | No. of SRV Panchayats | | Outlays of Panchayats selected during 1992-93 | Cumulative Expenditure as on 31-3-1994 | % of Expenditure |
|---------|--------------------|-------------------------|-------------------------|---|--|------------------|
| | | selected during 1992-93 | selected during 1994-95 | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1. | Thiruvananthapuram | 9 | 2 | 6096.79 | 608.64 | 10.0 |
| 2. | Kollam | 7 | — | 569.76 | 238.22 | 41.8 |
| 3. | Pathanamthitta | 6 | — | 2010.10 | 323.10 | 16.1 |
| 4. | Alappuzha | 5 | 1 | 1218.14 | 407.30 | 33.4 |
| 5. | Kottayam | 10 | — | 1016.71 | 429.28 | 42.2 |
| 6. | Idukki | 5 | 1 | 502.16 | 328.19 | 65.3 |
| 7. | Emakulam | 11 | — | 1014.30 | 498.26 | 49.1 |
| 8. | Thrissur | 14 | 2 | 1153.66 | 377.75 | 32.7 |
| 9. | Palakkad | 9 | 1 | 855.75 | 674.55 | 102.2 |
| 10. | Malappuram | 11 | 1 | 1621.08 | 699.25 | 43.1 |
| 11. | Kozhikode | 8 | 1 | 596.68 | 259.60 | 43.5 |

| | | | | | |
|---------------|------------|-----------|-----------------|----------------|-------------|
| 12. Wayanad | 4 | 1 | 473.16 | 219.64 | 46.4 |
| 13. Kannur | 8 | 1 | 545.59 | 211.28 | 38.7 |
| 14. Kasaragod | 6 | 1 | 851.78 | 685.00 | 80.4 |
| Total | 113 | 12 | 18525.66 | 6160.06 | 33.2 |

Note: Action Plans in respect of 12 SRV Panchayats selected during 1994-95 are under preparation. The expenditure reported is in respect of 113 SRV Panchayats selected during 1992-93.

Panchayat Level Resource Mapping

10.20. The aim of Panchayat Level Resource Mapping (PRM) is to provide objective data for micro level planning and sustainable development of panchayats. All the Panchayats in Kollam and Thrissur Districts, have at present been taken up for the resource mapping. At the end of August 1994, 142 panchayats were fully or partly covered by the programme. Voluntary mapping in 46 panchayats, scientific mapping in 39 panchayats, scientific and voluntary mapping in 25 panchayats and resource mapping in 32 panchayats are in progress. The total expenditure incurred for the project amounts to Rs.81.68 lakhs. The Centre for Earth Science Studies is implementing the project with the involvement of panchayats, voluntary organisations etc.

Western Ghats Development Programme

10.21. Western Ghats Development Programme is a 100% Centrally Sponsored Scheme implemented in all districts except Alappuzha. The important programmes taken up under the programme are soil conservation, dairy development, agriculture, non-conventional energy programme, drinking water supply, food-bridges, etc. The amount sanctioned for 1993-94 for this programme was Rs.866.75 lakhs out of which Rs.853.20 lakhs was utilised for various schemes. The sector wise break up of outlay and expenditure during 1993-94 are given in Table 10.13.

Table 10.13
Financial Achievement under Western Ghats Development Programme During 1993-94

| | | (Rs. lakhs) | |
|--------------|---------------------------------|---------------|-------------|
| Sl. No. | Sector/Programme | Outlay | Expenditure |
| (1) | (2) | (3) | (4) |
| I. | Agriculture and Allied Services | | |
| i. | Soil Conservation | 193.71 | 193.71 |
| ii. | a. Agriculture Development | 56.84 | 56.84 |
| | b. Environment | 5.00 | 5.00 |
| iii. | Animal Husbandry | 2.00 | 2.00 |
| iv. | Dairy Development | 62.50 | 62.50 |
| v. | Forestry Programmes | 197.18 | 183.63 |
| vi. | Afforestation | 10.73 | 10.73 |
| vii. | Horticulture Development | 17.00 | 17.00 |
| II. | Minor Irrigation | 175.32 | 175.32 |
| III. | Khadi and Village Industries | 10.00 | 10.00 |
| IV. | Infrastructure Development | | |
| i. | Drinking Water Supply | 63.00 | 63.00 |
| ii. | Foot Bridges | 52.46 | 52.46 |
| V. | Survey, Studies and Evaluation | 13.75 | 13.75 |
| VI. | Western Ghats Cell | 5.62 | 5.62 |
| VII. | Non-conventional Energy | 1.64 | 1.64 |
| Total | 866.75 | 853.20 | |

Source : Western Ghats Cell

Social Security and Welfare

10.22. The social security measures evolved till 1950's were largely protective in nature and now it is regarded as an entitlement of the poor and disabled. The major goal of social security is directed towards reduction of income insecurity. As such social security and welfare constitute an integral part of the functions of a modern government which underline the fact that irrespective of the level of economic development, there are people who are unable to participate in economic activities for reasons of old age and physical or mental disabilities, or who have no other independent means of livelihood.

NUTRITION

Nutrition Status in Kerala

10.23. Kerala has a proven record of wider commitment in social security measures of the benefit of the poor and under privileged segments of the population. At present there are over 35 social security and welfare schemes with a view to attaining the goal of reducing income insecurity among the weaker segments of society. During the period 1986 to 1993, the state expenditure under social security alone amounted to about Rs.500 crores. The expenditure during 1993-94 was about Rs.87 crores.

10.26. The National Nutrition Monitoring Bureau's Survey on 1988-90 revealed that the intake of cereals and millets is below the recommended level by about 20%. In the case of pulses the intake is 55% below the recommended level. The intake of green leafy vegetables is about 77.5% below the recommended level, the intake of milk is about 42% below the recommended levels.

10.24. The coverage under the major pension schemes taken together is about 20.4 per cent of the total 60 plus population in the State which is estimated at Rs.29.3 lakhs. Besides, the State Government pensioners, military pensioners, freedom fighters, Central Government pensioners account for a considerable percentage of the 60 plus population in the State. During 1994, the persons benefited under the pension schemes stood at 6.4 lakhs and expenditure amounted to about Rs.52 crores. The various welfare fund schemes covered about 28 lakh persons including 16 lakh members under the Labour Welfare Fund Board. The benefit pattern includes exgratia payments, educational assistance, insurance and pension. The coverage under different schemes is presented in summary form in table 10.14. About 58 lakh students are enrolled under the insurance scheme.

10.27. The calorie and protein intake are below the recommended levels by about 11% and 4% respectively of the recommended. The intake of calcium meets the recommended level. But consumption of iron is below the recommended level by about 8%. In the case of vitamin B, it is about 60% below the recommended allowances. The intake of vitamin C is adequate. But the consumption of thiamine and riboflavin are not adequate.

10.28. The average per capita daily intake of protein and calorie intake shows that the problem of malnutrition and malnourishment is more serious in the State than in other parts of the country. Children, pregnant and lactating mothers, belonging to the weaker sections of the society are the worst hit. The nutrition norms recommended for different categories is given in Table 10.16.

Institutional Care

10.29. The Government is implementing several programmes to combat malnutrition and under nutrition with the objective of providing 300 calories per day. The programmes implemented for pre-school children and pregnant/lactating mothers are Special Nutrition Programme in urban areas, Integrated Child Development Services, Applied Nutrition Programme for women and preschool children and composite programme for women and preschool children. The School mid-day meals programme covers the

10.25. Social security broadly comprises three dimensional interventions viz. pension, welfare assistance and institutional care. One important dimension of social security thus is institutional care through abalamandirs, rescue homes, after care hostels, care homes, orphanages, home for the disabled, mentally retarded etc. Institutional care is provided to more than 50,000 persons in the State. Out of this about 40,000 are orphans. The details of institutional intervention - welfare schemes implemented are given in the Table - 10.15.

Table 10.14

Major Social Security and Pension Schemes in Kerala

| Sl. No. | Name of Scheme | Qualifying conditions | Year of starting | Present rate of Assistance | Amount spent 1993-94 (Rs. in lakhs) | No. of percentage benefited Covered 1993-94 |
|---------|--|---|------------------|---|-------------------------------------|---|
| 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.15000 | 1-4-1980 | Rs.70 P.M. | 2000.00 | 345650 |
| 2. | Kerala Destitute Pension Scheme | Above 65 years age. For widowed destitutes no age limit. Monthly income not to exceed Rs.100 | 1960 | Rs.65 P.M., Rs.5 P.M. is also being paid to those widows have no or more minor children | 1630 | 187310 |
| 3. | Special Pension scheme for the Physically handicapped, disabled and mentally retarded person | Disabled persons who have minimum 40% disability, Medical Certificate necessary, beneficiaries monthly income Rs.75 or family income not to exceed Rs.5000 per annum. | 1-4-1982 | Rs.85 P.M. | 915.00 | 90906 |
| 4. | Kerala Freedom Fighters Pension Scheme | --- | 1-4-1971 | Rs.500 P.M. | 644.00 | 11000 |
| 5. | Pension to Sportsmen | The income should not exceed Rs.300 P.M. Minimum age 45 years. | 1978 | Below 60 years Rs.100 P.M, between 60 to 70 years Rs.150 P.M. Above 70 years Rs.200 P.M. | 4.77 | 179 |
| 6. | Financial Assistance to Leprosy and Cancer Patients | Leprosy and Cancer Patients are covered, certificates from hospitals are to be produced, income of the patients not to exceed Rs.50 P.M. | 1975 | Rs.100 P.M. | 47.00 | 5300 |
| 7. | Welfare Fund for Journalists | Financial Assistance is given to the working Journalists/their dependents in distress. The annual income should not exceed Rs.3600. | 1975 | Varies from Rs.100 to Rs.300 P.M. | --- | 192 |
| 8. | Welfare Fund for Cine Artists | Financial Assistance is given to cine Artists in distress. The Annual family income should not exceed Rs.3600 | 1975 | Rs.300 P.M. | --- | 145 |
| 9. | Kerala Cashew Workers Relief and Welfare Scheme | Cashew Workers above the age of 60 years | 1989 | Rs.100 P.M. for Workers and Rs.200 P.M. for Workers under the Category of staff | | 103000 |
| 10. | Kerala Coir Workers Welfare Fund Scheme | Coir workers above the age of 60 years | 1989 | Rs.75 P.M. | | 383319 |
| 11. | Kerala Construction Workers Welfare scheme | Construction workers having one year service and attained 60 years of age | 1-1-1991 | Rs.75 P.M. | | 210000 |
| 12. | Kerala Khadi Workers Welfare scheme | Khadi Workers having 10 years of service and 60 years of age | 1990 | Rs.60 P.M. | | 11286 |
| 13. | Kerala Handloom workers Welfare scheme | Handloom workers above the age of 60 | 1989 | Rs.75 P.M. | | 24514 |
| 14. | Abkari Workers Welfare Scheme | Abkari workers having 5 years of service and 60 years of age | 1990 | Minimum pension is fixed at Rs.200 and maximum pension Rs.300 depending on the length of service. | | 12845* |

| 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|------|--|---------|---------|
| Kerala Toddy Workers Welfare Fund | — | 1970 | P.F. contribution at 16% of total wages gratuity at 50% of the monthly average of wages and other facilities | | 46000* |
| Kerala Advocates Clerk Welfare Scheme | — | 1985 | After 5 years of contribution Rs.1650 is given, after completing 30 years Rs.10000 | | 2500* |
| Kerala Headload workers welfare scheme | Minimum 3 years of service | 1983 | Accident benefit at Rs.10000. The fund will be used for pension bonus, death, insurance scheme super-annuation assistance etc. | | 6300* |
| Kerala Artisans and Skilled workers welfare scheme | Artisans and skilled workers above 68 years | 1991 | Death benefit of Rs.10000. Rs.500 as Medical aid disability assistance at Rs.100 P.M., Scholarship for children, Maternity benefit at Rs.500 for 2 times, for women members, Retirement benefit etc. | | 278595 |
| Kerala Motor workers Welfare Fund | — | 1986 | Retirement benefit, P.F. etc. A member will get about Rs.12000 for 5 years of contribution and Rs.60000 if continued as member for 15 years | | 29332 |
| Kerala Fishermen's Welfare Scheme | Eligible Fisherman who has completed 60 years of age | 1987 | — | — | 25780 |
| Financial Assistance to Widows for the marriage of their daughter | Yearly income of the family should not exceed Rs.3000. | 1978 | Rs.1250 | 9.3 | 8800 |
| Tree Climbers Welfare Scheme | Financial assistance is given to workers in the event of total accidents and permanent total disability following the accidents | 1980 | Rs.10,000 | 13.35 | 137 |
| Kerala Labour Welfare Fund Scheme | — | 1989 | — | — | 1687988 |
| Students Accidents Insurance Scheme | All Students | 1989 | Rs.10,000 in the case of total accidents which cause total disability. In the case of minor injuries and assistance subject to a maximum of Rs 500 in a year | — | 58,0040 |
| Unemployment Assistance | Financial assistance is given to those who wait for employment in the live register of Employment Exchange for more than 3 years. | 1981 | Rs.60 P.M. | 1748.64 | 462151 |

Members enrolled in the welfare scheme shown

Table 10.15

Major Social Security and Welfare Schemes Implemented by the Social Welfare Department

| Sl. No. | Name of Scheme | Nature of care | Year of starting | Amount spent (Rs. in lakhs) | | No. of persons served/benefited | |
|---------|---|---|------------------|-----------------------------|---------|---------------------------------|---------|
| | | | | 1993-94 | 1993-94 | 1993-94 | 1993-94 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Welfare Institutions run by Government | | | | | | |
| a) | Abalamandir (Shelter for waifs and strays) | Care and Protection of distitute women and girls | | 20.21 | | | 191 |
| b) | Government Balasadan | Care and protection of distitute children | | | | | 86 |
| c) | Rescue Homes | Care and protection of distitute women who are sentenced to detention under the provision of suppression of immoral traffic in women and girls Act 1956 | 1974 | 24.83 | | | 158 |
| d) | After Care Hostel (for women) | Care and protection of women discharged from correctional institutions | 1974 | — | | | — |
| e) | Care Homes | — | 1974 | — | | | — |
| f) | Custodial Care Home, Manjeri | Care and protection of mentally ill children | 1974 | — | | | 12 |
| g) | Home for mentally deficient children | Care and protection of mentally deficient children | | | | | |
| | Thiruvananthapuram | | 1976 | — | | | 50 |
| | Kozhikkode | | 1976 | — | | | 25 |
| h) | Care Home for disabled children | Care and welfare of children (disabled) upto the age of 16 | | | | | |
| | Kollam | | 1960 | | | | 21 |
| | Alappuzha | | 1981 | 30.43 | | | 18 |
| | Thrissur | | 1960 | | | | 23 |
| | Thalassery | | 1981 | | | | 11 |
| i) | Home for the Physically handicapped | | | | | | |
| | Thiruvananthapuram | | 1976 | | | | 23 |
| | Alappuzha | | 1962 | | | | 23 |
| | Ernakulam | | 1980 | | | | 21 |
| | Palakkad | | 1962 | 2.87 | | | 16 |
| | Kozhikkode | | 1980 | | | | 19 |
| | Wayanad | | 1991 | | | | 16 |
| | Idukki | | 1991 | | | | 9 |
| j) | Children's Home, Nooranad | Care and protection of non-infected healthy children of leper patients | | 4.29 | | | 19 |
| k) | Home for the cured mental patients. (Asha Bhavan) | Care and protection of cured mental patients | | | | | |
| | Thiruvananthapuram | | 1991 | | | | 31 |
| | Thrissur | | 1989 | 5.32 | | | — |
| | Kozhikkode | | 1991 | | | | — |
| l) | Rehabilitation Home for the handicapped | | 1986-87 | 1.38 | | | 167 |

| | 2 | 3 | 4 | 5 | 6 |
|--|---|--|---------|--------|-------|
| n) Vocational Training Centre | | | | | |
| Thiruvananthapuram | | | 1972 | — | — |
| Kozhikode | | | 1973 | — | — |
| District Social Welfare office, Pathanamthitta | | | — | | |
| Thrissur | | | — | 4.93 | |
| a) T.A. for interview | | | | | |
| | | | — | | |
| p) After Care Home for adolescent Girls (2) | | | | | |
| Care and Protection of Adolescent Girls | | | 1967 | 108 | |
| q) After Care Home for Adolescent Boys (2) | | | | | |
| Care and protection of adolescent Boys | | | 1967 | | |
| Institutions run by Voluntary Organisations | | | | | |
| | | Registered Voluntary Organisations engaged in Social Welfare activities are eligible for the grant | | | |
| i) Orphanages (Plan) | | | | | |
| Maintenance Grant | | | | 21.00 | 1225 |
| Orphanages (Non Plan) | | | | | |
| Orphans & destitutes old age, beggars | | | | 303.00 | 39218 |
| p) Foundling Homes | | | | | |
| Maintenance Grant | | | 1964 | | |
| e) Home for the aged & infirm | | | | | |
| " | | | | 15.00 | 1618 |
| l) Beggar Homes | | | | | |
| " | | | | | |
| e) Vocational Training Centres (Pathanamthitta & Thrissur) | | | | | |
| " | | | | 2.75 | 365 |
| o) Creches | | | | | |
| Day Care of Children below 3 years of labourers | | | 1979 | — | 1275 |
| p) Day Care Centre | | | | | |
| Day Care of children below 6 years | | | 1975 | 13.64 | 948 |
| Financial Assistance to Individuals | | | | | |
| a) Grant to persons contracting Intercaste Marriage | | | | | |
| Financial Assistance to intercaste marriage couples other than SC/ST whose annual income is upto Rs.8000 | | | 1977 | 4.98 | — |
| p) Pre-Matric Scholarship (Physically handicapped) | | | | | |
| — | | | — | 15.86 | — |
| q) Scholarship for Mentally Retarded (Plan) | | | | | |
| Students studying in the Institutions run by the Voluntary Organisation. Income ceiling Rs.20,000/- | | | 1979-80 | 4.01 | 612 |
| r) Scholarship for the Physically Handicapped IX and above (Plan) | | | | | |
| Students studying in Std IX and above | | | 1978 | 29.00 | 2837 |
| s) State Awards to Physically handicapped (Non Plan) | | | | | |
| — | | | 1981-82 | 0.16 | 14 |
| t) Financial Assistance to Blind Advocates | | | | | |
| Income ceiling Rs.18000/- | | | 1983-84 | 0.18 | 3 |

Table 10.16

Recommended Dietary Intake of Nutrients

| Group | Particulars | Net Cals (Keals) | Protein (gm) | Calcium (gm) | Iron (mg) | Vit. A | | | | | |
|----------|----------------|---------------------|-----------------|-----------------|--------------|-----------------------|-------------------------|-----------------------|-------------------------|--------------------------|----------------------|
| | | | | | | Reti- omol (mg) | B caro- tene (mg) | Thid- mine (mg) | Ribe- flavil (mg) | Ancorbic acid (mg) | Foli acid (mg) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
| Man | Sedentary Work | 2400 | | | | | | | | | |
| | Moderate Work | 2800 | 55 | 0.4-0.5 | 24 | 750 | 3000 | 1.2 | 1.4 | | |
| | Heavy Work | 3900 | | | | | | 1.4 2.0 | 1.7 2.3 | 40 | 100 |
| Women | Sedentary Work | 1900 | | | | | | 1.0 | 1.1 | | |
| | Modern Work | 2200 | 45 | 0.4-0.5 | 32 | 750 | 3000 | 1.1 | 1.3 | 40 | 100 |
| | Heavy Work | 3000 | | | | | | 1.5 | 1.8 | | |
| Children | 1-3 Years | 1220 | 22.0 | | | 250 | 1000 | 0.6 | 0.7 | | |
| | 4-6 Years | 1720 | 29.4 | 0.4-0.5 | 20-25 | 300 | 1200 | 0.9 | 1.0 | | |
| | 7-9 Years | 2050 | 35.6 | | | 400 | 1600 | 1.2 | 1.2 | | |
| Boys | 10-12 Years | 2420 | 42.5 | | | | | 1.2 | 1.5 | | |
| Girls | - do - | 2260 | 42.1 | 0.6-0.7 | 25 | 600 | 2400 | 1.1 | 1.4 | 40 | 100 |
| Boys | 13-15 Years | 2660 | 51.7 | | 35 | | | 1.2 | 1.4 | | |
| Girls | - do - | 2360 | 43.1 | | | | | | | | |

Table 10.17

Nutrition Programmes - Centres and Beneficiaries

| Department Implemented the Programme | Programme | No. of Centres | | No. of Beneficiaries (in lakhs) | |
|---|--|----------------|---------|------------------------------------|---------|
| | | 1992-93 | 1993-94 | 1992-93 | 1993-94 |
| (1) | (2) | (3) | (4) | (5) | (6) |
| Social Welfare Department | 1. Special Nutrition Programme (Upgraded) | - | - | 0.92 | 0.92 |
| | 2. Integrated Child Development Services | 11565 | 16072 | 8.86 | 9.05 |
| Development Department | 1. Composite Programme for Women and Pre-school Children | 1434 | 1187 | 0.99 | |
| | 2. Non-ICDS Balawadies - ANP | 67 | 67 | 1.00 | 1.66 |
| | 3. Feeding Centres | 1367 | 1230 | 1.00 | |
| Education Department | School meals Programme | 9475 | 9476 | 23.42 | 24.00 |

eligible children in L.P. and U.P. Schools. The coverage under different programmes is given in Table 10.17.

WELFARE OF SCHEDULED CASTES, SCHEDULED TRIBES AND OTHER BACKWARD CLASSES.

10.30. Programmes for the welfare of the socially and economically backward people especially for the benefit of Scheduled Castes and Scheduled Tribes occupied a prominent position in the development plans of the State all these years. A concerted effort was made towards the end of the fifth plan for the introduction of Welfare Programmes benefiting these communities by introducing the concept of Special Component Plan, Tribal Sub Plan as part of the State Plan. The Government of India also lent the necessary support by providing Special Central Assistance. The majority of the programmes for the welfare of the Scheduled Castes and Scheduled Tribes were implemented through the Scheduled Castes and Scheduled Tribes Development Departments. Besides, sectoral departments were also implementing multifarious programmes for generating more employment opportunities and also infrastructural development programmes for the development of the Scheduled Castes and Scheduled Tribes in the State. To ensure effective implementation of various programmes, the Special Component Plan and Tribal Sub Plan were decentralised at the district level from 1983-84 onwards and District Level Working Groups were constituted under the chairmanship of the District Collectors. The working groups were vested with the responsibility of identification, formulation, implementation and monitoring of all schemes benefiting Scheduled Castes and Scheduled Tribes. This system has brought dimensional changes in the Welfare of Scheduled Castes and Scheduled Tribes for the last one decade which also enabled the sectoral departments to formulate innovative, income generating, and local need based schemes.

10.31. The Special Component Plan aims at the comprehensive development of Scheduled Castes in the State. While formulating the plan, schemes which are directly benefiting the Scheduled Castes are given priority and also thrust

areas are given preference. The allocation of funds from sectoral-departments is done mainly in proportion to the Scheduled Caste population. The Special Component Plan also sought to improve the living conditions of Scheduled Castes through provision of drinking water, roads, houses educational and health facilities, electrification, etc.

10.32. In Kerala, the Scheduled Tribes are living in isolation from the main stream of social life. As a result, their living conditions are very poor. In order to improve their economic status special programmes are being implemented under Tribal Sub Plan formulated annually. Besides Tribal Sub Plan Programmes seven Integrated Tribal Development Projects were also started during the Fifth Five Year Plan. The objective of Tribal Development Projects is the integrated development of tribal areas covered under special projects through effective co-ordination of development programmes.

10.33. In addition to the Integrated Tribal Development Projects Five Special Projects namely Sugandhagiri Cardamom Project, Pookot Dairy Project, Priyadarsini Tea Estate, Attappadi Farming Co-operative Society and Vattachira Tribal Collective Farm were started for the rehabilitation of the bonded tribals in the State. Various economic development programmes are under implementation in the projects. Besides plan funds, financial assistance from other source are also mobilised for implementing the schemes in the projects.

Profile of Scheduled Castes and Scheduled Tribes

(a) Scheduled Castes

10.34. According to 1991 Census, the Scheduled Castes population of Kerala was 28.87 lakhs which constitute 9.92 per cent of the total population in the State. About 20.03 lakh Scheduled Castes persons are literates. The percentage of Scheduled Caste population as per 1981 Census was 10.2 and there was a slight decline of 0.10% in 1991. Similarly the decadal growth rate (1981-91) shows that the rate of growth of Scheduled Castes is 13.22% whereas it is

14.32% in the case of general population. Of the total Scheduled Castes the highest percentage is in Palakkad District (13.11%) and the lowest is in Wayanad District (0.96%).

10.35. With regard to the percentage of Scheduled Caste population to the total district population, the highest is in Palakkad District (15.89%) whereas the lowest is in Kannur District (4.05%). Eventhough the percentage of district population and State population are highest in Palakkad District, the literacy rate of Scheduled Castes in the district is only 67.16% which is less than the State Level Literacy rate of 79.66%.

10.36. The average size of Scheduled Caste household is 4.9 whereas it is 5.3 for general population. In the case of sex ratio, there were 1029 females per 1000 males among the Scheduled Castes and the corresponding figure for general population is 1036.

10.37. The highest literacy rate of Scheduled Caste is in Kottayam District (90.28%) followed by Alappuzha (89.07%) and Pathanamthitta (86.47%). The lowest literacy rate is seen in Kasaragod District (56.73%).

10.38. The work participation rate of Scheduled Caste is 41.21% as against 31.43% of the total population. Agricultural labourers accounts 53.78% to total Scheduled Caste main workers. Workers in forestry, fishing and plantation constitute 10.87% whereas the workers in manufacturing, processing, servicing and repair in house hold industry stands 2.44%. Construction workers and workers in trade and commerce constitute 3.60% and 2.83% respectively. The workers in processing, servicing and repairs in other than household industry constitute 7.08%.

(b) Scheduled Tribes

10.39. The Scheduled Tribes Population according to 1991 Census was 3.20 lakhs which constitutes 1.10% of the total population. During the decade of 1981-91 the rate of growth of Scheduled Tribes population was 22.75% against the general growth rate of 14.32%. Sex ratio of tribal population was 996 females per 1000

males. The total number of tribal households is 69441. The highest number of tribal households are concentrated in Wayanad District (23287), followed by Idukki District (11516). The lowest number of tribal households in the State is in Alappuzha District (651). Of the total Scheduled Tribe population, Wayanad District stands first (35.82%) followed by Idukki (15.6%) Palakkad (11.05%) Kasaragod (9.12%) and Kottayam (5.62%). The lowest tribal population is to Alappuzha District (0.87%).

10.40. The literacy rate of Scheduled Tribes in the State is 57.22%. The highest rate of literacy is in Kottayam District (88.69%) followed by Ernakulam (76.96%). Thiruvananthapuram (74.00%) and Kasaragod (66.38%). As part of promotion literacy among tribals special literacy campaigns known as Tribal Literacy Programme was implemented in tribal areas. As a result the literacy rate among tribals reached 80.71%. Malappuram and Kannur District achieved remarkable literacy rate of 97.3% and 90.88% respectively consequent on the implementation of the programme. The Special Tribal Literacy Programme was launched by the Scheduled Tribes Development Department in 1991. This Programme was a great success which could make 64000 Scheduled Tribe Literates and as such the State could declare total literacy among the Scheduled Tribe people in July 1993. The State Saksharatha Samithi has also launched a similar type of post literacy and education programme for the benefit of the Scheduled Tribes.

10.41. The main workers of scheduled Tribes are spread over in different categories according to their work participation. Of the total scheduled Tribes, 21536 are cultivators and 71720 are agriculture labourers. The main workers of Scheduled Tribes is 129297 and there are 18474 marginal Workers. There are about 173196 non workers among the Scheduled Tribes.

10.42. As per the approved list there are 35 Scheduled Tribe communities in the State. Tribal communities with pre-agricultural stage of development and very low literacy rate are recognised as primitive tribes by Government of

India. Cholanaikans, Kattunaikans, Kurumbas, Kadars and Koragas are the primitive tribes in Kerala and they constitute nearly 4.8% of the total Scheduled Tribe population in the State. According to a survey conducted by the Forest Department in 1992, around 17156 Scheduled Tribe families in 671 settlements are living in the Forests. Majority of them are engaged in the collection of minor forest produces and forest protection works.

10.43. The details of the Scheduled Castes and Scheduled Tribes according to 1991 census are given in Table 10.18 and the district wise distribution of scheduled Caste and Scheduled Tribe population is given in Table 10.19.

Table 10.18

Details of Scheduled Castes and Scheduled Tribes (1991 Census)

| Description | Unit | Scheduled Castes | Scheduled Tribes | Total |
|--|------|------------------|------------------|----------|
| 1 | 2 | 3 | 4 | 5 |
| Household | No. | 593676 | 69441 | 5513200 |
| Population | " | 2886522 | 320967 | 29098518 |
| 0-6 Population | " | 372301 | 48237 | 3836900 |
| Literates | " | 2002786 | 156061 | 22686461 |
| Main workers | " | 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 | " | 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 | 25.54 |
| Live Stock, forestry Fishing, Hunting Plantations etc. | " | 10.87 | 15.47 | 9.24 |
| Mining and Quarrying Manufacturing and Processing | " | 1.88 | 0.33 | 0.99 |
| Servicing and Repairs in | " | | | |
| i. Household Industry | % | 2.44 | 0.47 | 2.58 |

| | | | | |
|---|---|-------|------|-------|
| ii. Otherthan 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 |

Table 10.19

District-wise Distribution of Total Population, Scheduled Castes and Scheduled Tribes (1991 Census)

| District | Total Population | Scheduled Castes | Scheduled Tribes |
|-----------------------|------------------|------------------|------------------|
| (1) | (2) | (3) | (4) |
| 1. Thiruvananthapuram | 29.38 | 3.43 | 0.16 |
| 2. Kollam | 2.398 | 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. Kasargod | 10.70 | 0.82 | 0.29 |
| State Total | 290.32 | 28.87 | 3.20 |

10.44. The Scheduled Castes and Scheduled Tribes Development Departments are the two major agencies in the state involved in the implementation of development schemes under education, economic development, housing, health and other programmes meant for the scheduled Castes and Scheduled Tribes. Schemes like pre-matric scholarships and stipends, special incentive to talented students, better education facilities to bright students, study centres, boarding grants etc. are the major educational development schemes under implementation. Schemes like book banks to professional colleges and tuition system in schools and colleges are also have good response from the beneficiary group.

10.45. Due to the attractive incentives offered to Scheduled Caste/Scheduled Tribe stu-

dents for educational purposes the enrolment of students belonging to these community has increased considerably. Among the school children the representation of SC and ST is 11.14% and 1.12% respectively. Among College students, 28.85% belong to SC/ST communities. Details are given in Table 10.20 and 10.21.

Table 10.20

Enrolment of Scheduled Castes and Scheduled Tribes Students at School Level (1993-94)

| Section | General | SC | %to Total | ST | % to Total |
|--------------|----------------|---------------|--------------|--------------|---------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| L.P. | 1478048 | 168099 | 11.37 | 18160 | 1.23 |
| U.P. | 1578309 | 175942 | 11.15 | 20112 | 1.27 |
| H.S. | 2733016 | 301152 | 11.01 | 26.305 | 0.96 |
| Total | 5789373 | 645193 | 11.14 | 64577 | 1.12 |

Table 10.21

Enrollment of SC/ST Students in Arts and Science Colleges 1993-94

| Course | Total Sanctioned Strength | Scheduled Caste/Scheduled Tribes | Percentage |
|------------------|---------------------------------|--|--------------|
| (1) | (2) | (3) | (4) |
| 1. Pre-Degree | 102768 | 33599 | 32.59 |
| 2. Degree | 47058 | 10060 | 21.38 |
| 3. Post-graduate | 5362 | 1120 | 20.89 |
| Total | 155188 | 44779 | 28.85 |

10.46. During the year 1994 about 701 Scheduled Castes and 72 Scheduled Tribes students were given admission in Engineering Colleges at degree level against the total strength of 9648. At diploma level 766 SC students and 53 ST students were admitted. There are 725 S.C. students and 34 ST students in various Technical High Schools against the total strength of 6995. The total number of Engineering Colleges in the State is 8 including 3 private colleges. There are 1146 teaching staff in these colleges of which 35 persons belong to Scheduled Castes and Scheduled Tribes. During the year under

review 44 Scheduled Caste Students and 11 Scheduled Tribe students were given admission in M.B.B.S. course against the total strength of 700 seats in the State. Admission to B.D.S. Course is 4 SC and one ST students. Details of Scheduled Caste/Scheduled Tribe students admitted to Medical and Para Medical Courses during 1992-93 and 1993-94 are given in Appendix 10.6.

10.47. Under the Scheduled Castes Development Department there are 76 balawadies and feeding centres, 53 boys hostels, 48 girls hostels, 788 other institutions, 41 industrial training centres, 3 production cum-training centres, 3 pre-examination training centres and one IAS coaching centre. The district wise details are given in Appendix 10.7.

10.48. The implementation of Social development programmes like enforcement of Protection of Civil Rights Act, assistance for marriage and major treatment of poor, development of dependents of those who were engaged in unclean occupations in the past deserve special mention. One of the major programmes for the development of Scheduled Castes is the implementation of the Intensive Habitat Development Programme during the past three years. This programme aims at the overall development of the scheduled caste habitats in the state. The target for the programme is to develop 2000 SC/ST habitats and 990 habitats have been covered during the period of three years.

10.49. During 1993-94 the Scheduled Castes Development Department constructed 1088 houses against 1135 during 1992-93. Under rehabilitation housing programme 301 S.C. persons were assisted during 1993-94. The District wise details of the number of houses constructed under housing scheme, IHDP, rehabilitation are furnished in appendix 10.8.

10.50. Another social welfare scheme implemented by the Scheduled Caste Development Department is the assistance for marriage and major treatment of poor people. During 1993-94 the Department has assisted 1716 Sch. Caste people under the scheme. The number of beneficiaries of various programmes of the de-

partment during 1992-93, and 1993-94 are given in Table 10.22.

Table 10.22

Beneficiaries of Various Programmes Implemented by the Scheduled Castes Development Department.

| Particulars | 1992-93 | 1993-94 |
|---|---------|---------|
| (1) | (2) | (3) |
| 1. balawadies-cum-Feeding Centres | 2238 | 1948 |
| 2. Pre-matric Studies | 653434 | 645405 |
| 3. Pre-matric Hostels | 3022 | 3037 |
| 4. Post-matric Studies | 42340 | 50357 |
| 5. Post-matric Hostels | 945 | 946 |
| 6. Incentive to Talented Students | 244 | 277 |
| 7. Tuition System | 1084 | 1296 |
| 8. Study Centres | 11 | 144 |
| 9. Financial Assistance to Failed S.C. Students | 571 | 1252 |
| 10. Inter-caste Marriage | 592 | 595 |

10.51. The Scheduled Tribe Development Department is implementing various economic development, educational and social development schemes benefiting Scheduled Tribes in the State. For providing scholarships, stipends and other incentives to the students, the Department has spent Rs.212.02 lakhs under non-plan for pre-matric and post-matric studies during 1993-94. The total plan expenditure of the department during 1993-94 was Rs.702.79 lakhs as against Rs.676.70 lakhs during 1992-93. During 1993-94 the non-plan expenditure amounted to Rs.758.14 lakhs as against Rs.673.99 lakhs in 1992-93. During 1993-94 a total number of 65766 tribal students were given assistance under various educational schemes as against 67956 in 1992-93. With a view to provide better educational facilities and high standard of education, two model residential schools at high school level and two ashram schools at primary level were functioning in the state for the benefit of Scheduled Caste and Sch. Tribe students.

10.52. For the overall educational development of Scheduled Tribes, the department is running 115 pre-matric hostels, 14 nursery schools and 30 balawadies. The district-wise details of institutions managed by the Scheduled Tribes Department shown in Appendix 10.9. The total plan expenditure for implementing educational

development schemes for the Scheduled Tribes was Rs.283.67 lakhs against the outlay of Rs.273.00 lakhs during 1993-94. The corresponding figure for 1992-93 were Rs.244.09 lakhs and Rs.228.50 lakhs respectively. Under non-plan, an amount of Rs.537.51 lakhs has been spent by the Department during 1993-94 for educational programmes. The non-plan expenditure for this during 1992-93 was Rs.494.40 lakhs.

10.53. A salient feature of the economic development scheme implemented by the Scheduled Tribes Development Department is the intensive Habitat Development Programme. The scheme envisages integrated development of most backward Scheduled Tribes settlements in the State. Integrated infrastructural development schemes as well as family oriented economic development schemes are being implemented. Besides, the tribal rehabilitation projects for the bonded labourers were also financed by the Department. For implementing all economic development programmes during 1993-94 an amount of Rs.136.14 lakhs has been spent against the outlay of Rs.131.64 lakhs. The corresponding expenditure during 1992-93 was Rs.136.21 lakhs against the outlay of Rs.92.00 lakhs.

10.54. The problem of housing among Scheduled Tribes is very crucial even though a number of housing schemes are under implementation. Houseless families among them is estimated as nearly 20,000. The number of houses completed during 1993-94 was 944 and the expenditure incurred was Rs.82.97 lakhs. The district wise number of houses constructed by the Department are given in appendix 10.10.

10.55. Government have taken several steps for providing better medical facilities to the Scheduled Tribes in the State. Under the Scheduled Tribes Development Department 17 Ayurveda dispensaries, one ayurveda hospital, 3 allopathy hospitals, 5 midwifery centres and two mobile medical units are functioning. The construction of the Mananthavady Health Project is nearing completion. The Department and the Health Department together conduct medical camps every year in tribal areas to diagnose diseases and provide free medicines. Patients detected with disease are referred to the nearest

hospitals for treatment. Necessary financial assistance is also provided for immediate treatment of the patients as discretionary grant.

10.56. During 1993-94 an amount Rs.32.10 lakhs was spent against the outlay of Rs.6.00 lakhs under plan for implementing various health programmes. The expenditure incurred for health programmes during 1992-93 was Rs.12.44 lakhs. Under non-plan an amount of Rs.31.60 lakhs was spent during 1993-94 for health programmes. Other major schemes implemented during 1993-94 for the development of scheduled Tribes are conduct of district and state level youth festivals assistance to Mahilasamajams, assistance for marriage of girls, implementation of prevention of Atrocities Act, discretionary grant, inter caste marriage grant etc. The expenditure for these schemes during 1993-94 was Rs.20.15 lakhs under plan and Rs.27.98 lakhs under non-plan.

10.57. The total plan expenditure incurred by the Scheduled Tribes Development Department during 1993-94 was Rs.702.79 lakhs including the share of Special Central Assistance and Centrally Sponsored Schemes against the outlay of Rs.698.50 lakhs. Under non-plan an amount of Rs.758.14 lakhs was also spent for various development activities. During the previous year the expenditure under plan and non plan were Rs.675.70 lakhs and Rs.673.99 lakhs respectively.

10.58. Apart from the Scheduled Castes and Scheduled Tribes Development Departments, the Kerala State Development Corporation for SC and ST and the Kerala Institute for Research, Training and Development Studies for SC/ST are also implementing various programmes for the development of these communities.

10.59. The major schemes implemented by the Development Corporation scheme are margin money scheme, foreign employment, agricultural land purchase scheme seed money for technically trained and professionally qualified persons, commercial centre scheme, water scooter scheme medical store, video camera scheme etc. The Corporation has spent an amount of Rs.929.84 lakhs during 1993-94 against the expenditure of Rs.647.46 lakhs during 1992-93. The total number of persons assisted by all these schemes during 1993-94 was 7709 as against 3983 persons during the previous year. The scheme wise details of financial and physical achievements are given in Appendix 10.11.

10.60. The Kerala Institute for Research Training and Development Studies is a specialised agency concerned with conducting research studies in subjects related with the development of Scheduled Castes and Scheduled Tribes. Conducting research studies on specific subjects, promoting training for the development of certain traditional skills, awarding scholarships on special occasions are the activities undertaken by the institute. During 1993-94, the institute has conducted seven training programmes for officials, eight leadership training programmes for the scheduled caste youths and six leadership training programmes for the Scheduled tribes. Besides, a ten day training programme for the scheduled tribe youths of Kannur, Kozhikode and Wayanad districts was conducted in modern agricultural and animal husbandry practices. Apart from this, the Institute conducted two exhibition-cum-sale of handicrafts products of SC and ST (one each at Thiruvananthapuram and Kozhikode), one archery competition, seven workshop on the tribal medicine, and one training in modern archery during 1993-94. Three evaluation studies are also conducted and report published by the institute.

CHAPTER 11

INSTITUTIONAL FINANCE

The banks and other financial institutions, as agents of development, play a very important role by assisting trade and industry in promoting economic development. There is an ever growing importance of financial institutions in the economy and the growth of financial institutions in relation to the economic activity. The flow of investment funds from financial institutions assumes added significance in the changing economic scenario in which the role of Government is increasingly getting confined to providing basic facilities and welfare activities. 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).

11.2. The overall performance of all India Financial Institutions during 1992-93 (information for the subsequent year has not yet become available) in terms of the quantum of assistance disbursed was significantly better than that of the previous year, as there was a marked increase of 42% in the disbursement during 1992-93, compared to the increase of only 27% during 1991-92. Out of a total of Rs.20008.8 crores disbursed by all the institutions, the lion's share of Rs.6338 crores (31.7%) was advanced by IDBI, followed by UTI Rs.4548.3 crores (22.7%), ICICI Rs.3315.2 crores (16.6%) and NABARD Rs.2359.1 crores (11.8%). The lowest disbursement was by NCDC Rs.325.2 crores (1.6%). Coming to the institution-wise performance while the disbursements by LIC and NCDC declined by 2.8% and 0.6% respectively during the year 1992-93 over the previous year, all other institutions showed increases during the same period, 204% by GIC, 126% by UTI, 78%

by ICICI, 24% by IDBI, 15% by NABARD and 8% by IFCI.

11.3. Regarding state-wise disbursements, a sizable amount of Rs.9339.10 crores (46.7%) was accounted for by the four major states viz. Madhya Pradesh, Uttar Pradesh, Gujarat and Maharashtra, all in the central and western regions of the country. Maharashtra retained the top place with 24.6% of the total disbursements, followed by Gujarat (11%) Andhra Pradesh (7.1%) and Tamil Nadu (6.7%). The position of Kerala was very low (1.4%) and is the lowest, barring Assam (0.6%). Kerala's share of Rs.281.1 crores was mainly from IDBI Rs.113.5 crores (40.41%), NABARD Rs.103.9 crores (37%) and ICICI Rs.41.6 crores (14.8%). A significant point relating to flow of credit to Kerala from the All India Financial Institutions is that the credit absorption capacity of the state is very poor for a variety of reasons. The relevant figures are given in Appendix 11.1.

11.4. The Cumulative disbursements by All India Financial Institutions (excluding GIC) as at the end of March 1993 made a marked increase of 21.6% over the corresponding figure of 1992. Out of the total disbursements of Rs.110235.3 crores, major share of Rs.43565.2 crores (39.5%) was disbursed by IDBI, followed by NABARD Rs.18723.1 crores (17%) and ICICI Rs.18497.6 crores (16.8%). The share of Kerala was only Rs.2463.6 crores (2.2%) which was the lowest among major states. The details of cumulative disbursement are given in Appendix 11.2.

11.5. The per capita assistance disbursed by All India Financial Institutions during 1992-93 for the country as a whole increased by 36.8%, from Rs.144.5 in 1992-93 to Rs.197.7, as compared to an increase by 33.3% in 1991-92. The per capita assistance for all major

states except Maharashtra and Gujarat, are below the national per capita assistance of Rs.197.7. The per capita assistance is highest in respect of Maharashtra (Rs.565.3), followed by Gujarat (Rs.485.1), Tamil Nadu (Rs.196.7) and Andhra Pradesh (Rs.167.9). Though the per capita disbursement improved at the national level, the case is not same with all the states. The per capita disbursement for Andhra Pradesh declined from Rs.195.7 to Rs.167.5, Assam from Rs.51 to Rs.35.4, Haryana from Rs.176.7 to Rs.163, Orissa from Rs.86, to Rs.78.9 and Uttar Pradesh from Rs.66.3 to Rs.55. The state-wise per capita assistances disbursed during 1991-92 and 1992-93 are given in Appendix 11.3.

11.6. The aggregate disbursements made by NCDC and NABARD during 1993-94 was to the tune of Rs.3031.42 Crores, of which Rs.286.72 crores (9.46%) by NCDC and Rs.2744.90 (90.54%) by NABARD. Kerala's share in this disbursement was Rs.148.43 crores (4.90%) only, of which Rs.23.18 crores (15.6%) was by NCDC and Rs.125.25 crores (84.4%) by NABARD. From the state-wise disbursements given in appendix 11.6, it could be seen that there had been wide variation between states in the absorption of credits. Uttar Pradesh, Maharashtra and Andhra Pradesh topped the list with Rs.452.54 crores (14.93%), Rs.385.69 crores (12.72%) and Rs.346.06 crores (11.42%) respectively. Kerala's position was only ninth among the major fifteen states.

11.7 The year 1969, the year of nationalisation of banks, was an important landmark in the history of banking development in India. Since then, the banks in India have made rapid strides in opening branches, size of operation in both mobilisation of deposits and advancing credits for various development activities. The number of branches increased more than seven fold from 8262 in 1969 to 61852 in 1994. Out of the total of 617 branches opened all over India in 1994, as many as 63 branches were in Kerala. With regard to the geographical spread of branches, among major states, Uttar Pradesh retained the top position with 8608 branches (13.9%), followed by Maharashtra 5724 (9.3%) and Bihar 4910 (7.9%) with 2948 branches and

Kerala occupied tenth position (4.8%). Assam, as in the previous years, retained the lowest position with 1226 branches (2.0%). The number of branches per lakh of people was the highest in Punjab (10.5), followed by Kerala (9.7), Karnataka (9.2) and Gujarat (8.0). The State wise growth of bank offices in India is given in Appendix - 11.4.

11.8. Just as the growth in bank branches, there has been a tremendous increase in the business handled by the banks after nationalisation. During the period from 1969 to 1994, the deposits increased by 69 times from 3896 crores to 267468 crores and the credit advanced increase by 40 times from 3835 to 153700 during this period. The Credit Deposit (CD) ratio which was 98.4 in 1969 came down to 61.4 in 1993 and further to 57.5 in 1994. In 1994 there was a general decline in the credit deposit ratios of all the states compared to the position in 1993. The credit deposit ratio, as at the end of March 1994, was the highest for Tamil Nadu (87.0%) followed by Andhra Pradesh (75.8%) Karnataka (72.7%) and Maharashtra (69.9%). The credit deposit ratio of Kerala presented a distressing picture. The ratio declined from 59.6 in 1991 to 43.1 in March 1994. Only Uttar Pradesh (36.8) and Bihar (34.7) had lower CD ratio. The deposits, credits and credit deposit ratios of Public Sector banks as at the end of March 1994 are shown in Table 11.1. The trend of deposits, credits and credit deposit ratios in respect of Kerala from 1987 to 1994 is as shown in Fig.11.1

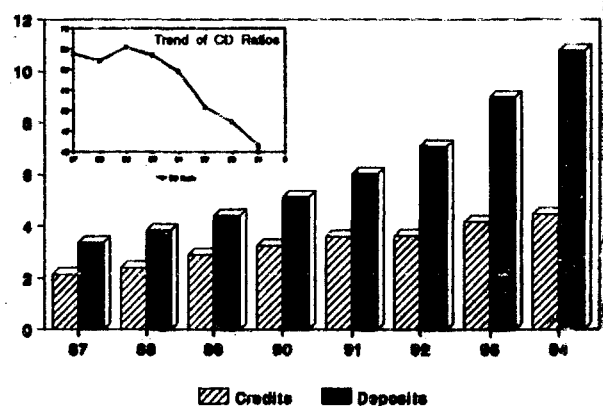


Fig.11.1 Trend of deposits, credits and credit deposit ratios - Kerala

11.9. The ratio for Kerala has come down further to 41.73% in September 1994. The steady decline in CD ratio for Kerala is a matter of serious concern, especially in the context of the State Government's inability to push up direct investment to provide the required momentum to the growth of economy. During the year under review, when the deposit increased by 14.9% as against the increase of 16.7% in 1993, credit advanced increased by 7.5% as against the increase of 19.4% in 1993. The CD ratio of banks functioning in Kerala is given in Appendix 11.6. The Fig.11.2 shown below depicts the total advances by various groups of banks functioning in Kerala during 1993-94.

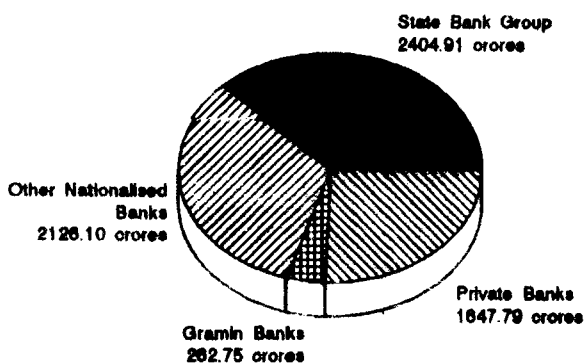


Fig. 11.2. Advances by various groups of banks : 1993-94

11.9 The total NRE deposits in the state increased from Rs.1369.24 crores in March 1988 to Rs.6549.69 crores in September 1994, registering nearly five fold increase. During the six year period from March 1988 to March 1994, while the total deposits mobilised by the banks increased at an annual average growth rate of 17.3%, the NRE deposits registered an annual average growth rate of 28.5%. The NRE deposits registered an annual average growth rate of 28.5%. The NRE deposits as at the end of September 1994 stood at Rs.6549.69 crores which accounts for 41% of the total aggregate deposits of Rs.15990.31 crores as on that date. The details are given in Appendix 11.6. The trend of

NRE deposits in Kerala from 1988 to 1994 is shown Fig.11.3.

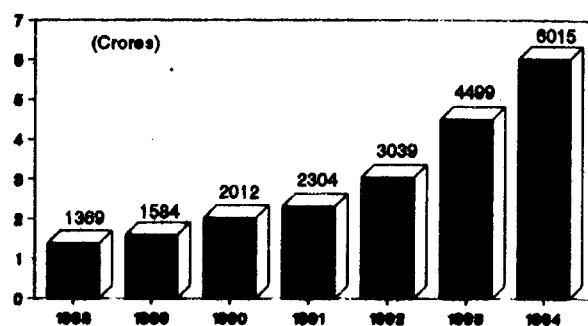


Fig. 11.3. Trend of NRE Deposits in Kerala

11.10 The banking industry in our country is on the threshold of far reaching changes in the context of the liberalisation of economic activity being pursued by the Government at the Centre. At a time when the State Government is finding it extremely difficult to mobilise adequate resources to expand the activities at the required level, it is highly imperative that we take advantage of the emerging situation and provide the necessary socio-political climate as well as the support facilities for attracting larger credit both from All India Financial Institutions and the banking sector. Now that a number of policy initiatives have been taken by the state Government, they will have to be pursued in the right direction to attract the right type of investments. In this context the recommendations of the committee on Credit Deposit Ratio in Kerala appointed by the Reserve Bank of India in 1993 should act as a guide point and the Government should spare no efforts wherever called for in translating those recommendations to the advantage of the state and its people. The banking sector on its part should adopt a more positive approach in providing the much needed impetus in terms of larger credit flows to various investment activities within the state.

Table 11.1

**Deposits, Credits and Credit Deposit Ratios of Public Sector Banks
(As at the end of March)**

(Rs. Crores)

| States | Deposit | | | | | Credit | | | | | Credit-Deposit Ratio (%) | | | | |
|--------------------------|-------------|---------------|---------------|---------------|---------------|-------------|---------------|---------------|---------------|---------------|--------------------------|-------------|-------------|-------------|-------------|
| | 1969 | 1991 | 1992 | 1993 | 1994 | 1969 | 1991 | 1992 | 1993 | 1994 | 1969 | 1991 | 1992 | 1993 | 1994 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1. Andhra Pradesh | 121 | 10036 | 10920 | 12381 | 14448 | 122 | 8283 | 8905 | 10104 | 10952 | 100.8 | 82.5 | 81.6 | 81.6 | 75.8 |
| 2. Assam | 33 | 2052 | 2234 | 2466 | 2802 | 13 | 1006 | 1078 | 1172 | 1172 | 39.4 | 49.6 | 48.3 | 47.5 | 41.8 |
| 3. Bihar | 169 | 8482 | 9219 | 10260 | 11519 | 52 | 3348 | 3518 | 3830 | 3999 | 30.8 | 39.5 | 38.2 | 37.3 | 34.7 |
| 4. Gujarat | 401 | 11443 | 13457 | 15817 | 18677 | 195 | 6989 | 7217 | 8308 | 8651 | 48.6 | 61.1 | 53.6 | 52.5 | 46.3 |
| 5. Haryana | 49 | 3833 | 4119 | 4787 | 5611 | 23 | 2262 | 2307 | 2649 | 2810 | 46.9 | 59.0 | 56.0 | 55.3 | 50.1 |
| 6. Karnataka | 188 | 8300 | 9705 | 11541 | 12686 | 143 | 7370 | 7591 | 8794 | 9226 | 76.1 | 88.8 | 78.2 | 76.2 | 72.7 |
| 7. Kerala | 117 | 6027 | 7084 | 8792 | 10782 | 77 | 3589 | 3607 | 4154 | 4469 | 65.8 | 59.6 | 50.9 | 47.3 | 41.5 |
| 8. Madhyapradesh | 107 | 7196 | 8014 | 8885 | 10258 | 68 | 5424 | 5065 | 5512 | 5735 | 63.6 | 75.4 | 63.2 | 62.0 | 55.9 |
| 9. Maharashtra | 903 | 29839 | 38900 | 46903 | 49802 | 911 | 23803 | 25040 | 32118 | 34792 | 100.9 | 79.8 | 64.4 | 68.5 | 69.9 |
| 10. Orissa | 29 | 2461 | 2815 | 3320 | 3626 | 15 | 1929 | 1963 | 2151 | 2174 | 51.7 | 78.4 | 69.7 | 64.8 | 60.0 |
| 11. Punjab | 185 | 9839 | 10865 | 12430 | 14586 | 50 | 4324 | 4578 | 5281 | 6132 | 27.0 | 44.0 | 42.1 | 42.5 | 42.0 |
| 12. Rajasthan | 74 | 4697 | 5298 | 6162 | 7305 | 38 | 2730 | 2997 | 3488 | 3651 | 51.4 | 58.1 | 56.6 | 56.6 | 50.0 |
| 13. Tamil Nadu | 233 | 11607 | 12862 | 15891 | 17616 | 311 | 11430 | 12488 | 13887 | 15327 | 133.5 | 98.5 | 97.1 | 87.4 | 87.0 |
| 14. Uttar Pradesh | 337 | 18233 | 20291 | 22806 | 26402 | 154 | 8692 | 8948 | 9593 | 9722 | 45.7 | 47.7 | 44.1 | 42.1 | 36.8 |
| 15. West Bengal | 456 | 16170 | 18158 | 21011 | 24039 | 526 | 8437 | 8788 | 10530 | 10968 | 115.4 | 52.2 | 48.4 | 50.1 | 45.6 |
| Total | 3402 | 150215 | 173941 | 203452 | 230159 | 2698 | 99616 | 104090 | 121571 | 129780 | 79.3 | 66.3 | 59.8 | 59.8 | 56.4 |
| Total - All India | 3896 | 172393 | 199531 | 232753 | 267468 | 3835 | 112475 | 119692 | 142935 | 153700 | 98.4 | 65.2 | 60.0 | 61.4 | 57.5 |

Source: CMIE - Basic Statistics relating to states of India, September 1994.

A P P E N D I X

STATISTICAL TABLES

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| (1) | (2) | (3) |
|------|---|------|
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|------|--|------|
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APPENDIX 2.1

Sectoral Distribution of Net Domestic Product at Factor Cost - India

(Rs. Crores)

| Industry of origin | at current prices | | | at 1980-81 prices | |
|---|-------------------|---------|---------|-------------------|---------|
| | 1980-81 | 1991-92 | 1992-93 | 1991-92 | 1992-93 |
| 1. Agriculture, forestry & fishing | 44091 | 165703 | 188116 | 60364 | 63442 |
| 1.1 Agriculture | 40056 | 152907 | 173913 | 55984 | 59019 |
| 1.2 Forestry & logging | 3239 | 8211 | 8343 | 2995 | 2952 |
| 1.3 Fishing | 806 | 4585 | 5860 | 1385 | 1471 |
| 2. Mining & quarrying | 1474 | 8547 | 9386 | 2771 | 2876 |
| 3. Manufacturing | 18698 | 82243 | 92974 | 37690 | 38230 |
| 3.1 Registered | 10050 | 50630 | 56109 | 22902 | 22934 |
| 3.2 Unregistered | 8648 | 31613 | 36865 | 14788 | 15296 |
| 4. Electricity, Gas & water supply | 912 | 4416 | 4490 | 2305 | 2450 |
| 5. Construction | 5771 | 29844 | 32832 | 9104 | 9087 |
| 6. Trade, hotels & restaurants | 14322 | 67995 | 77141 | 25887 | 27095 |
| 6.1 Trade | 13555 | 64523 | 73191 | 24517 | 25660 |
| 6.2 Hotels & restaurants | 767 | 3472 | 3950 | 1370 | 1435 |
| 7. Transport, storage & communication | 3724 | 30876 | 37730 | 7906 | 8431 |
| 7.1 Railways | 559 | 5032 | 6180 | 1027 | 984 |
| 7.2 Transport by other means | 2438 | 21088 | 26096 | 5648 | 6102 |
| 7.3 Storage | 114 | 423 | 442 | 163 | 165 |
| 7.4 Communication | 613 | 4333 | 5012 | 1068 | 1180 |
| 8. Financing, insurance, real estate & business services | 9264 | 38940 | 43601 | 21515 | 22043 |
| 8.1 Banking & insurance | 3344 | 24923 | 28203 | 12401 | 12665 |
| 8.2 Real estate, ownership of dwellings & business services | 5920 | 14017 | 15398 | 9114 | 9378 |
| 9. Community, social & personal | 12084 | 60713 | 70074 | 22900 | 24060 |
| 9.1 Public administration & defence | 5307 | 28366 | 32423 | 10535 | 10988 |
| 9.2 Other services | 6777 | 32347 | 37651 | 12365 | 13072 |
| 10. Total | 110340 | 489277 | 556344 | 190442 | 197714 |

Note : Figures for 1991-92 are provisional; those for 1992-93 are quick estimates.

Source : Central Statistical Organisation

APPENDIX 2.2

Net State Domestic Product at Factor Cost by Industry of Origin (At constant prices); Base Year-1980-81

(Rs. Lakhs)*

| Sl.No | Industry of Origin | 1980-81 | 1981-82 | 1982-83 | 1983-84 | 1984-85 | 1985-86 | 1986-87 | 1987-88 | 1988-89 | 1989-90 | 1990-91 | 1991-92 | 1992-93* | 1993-94* |
|-----------------------------------|--------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
| 1 | Agriculture | 129384 | 130483 | 128638 | 118576 | 131975 | 137924 | 130949 | 136601 | 156894 | 154730 | 176135 | 181816 | 193925 | 200460 |
| 2 | Forestry and Logging | 12382 | 7283 | 8832 | 5288 | 4749 | 4507 | 4389 | 3072 | 2998 | 3404 | 2561 | 3474 | 3663 | 3863 |
| 3 | Fishing | 7743 | 5797 | 6958 | 7691 | 6764 | 7042 | 5917 | 4592 | 6505 | 5457 | 9380 | 8847 | 10324 | 12048 |
| 4 | Mining and Quarrying | 461 | 590 | 481 | 345 | 540 | 496 | 647 | 525 | 1334 | 905 | 1310 | 1290 | 1337 | 1386 |
| Sub Total-Primary | | 149970 | 144153 | 144909 | 131900 | 144028 | 149969 | 141902 | 144790 | 167731 | 164496 | 189386 | 195427 | 209249 | 217757 |
| 5 | Manufacturing | 53152 | 57178 | 62187 | 58565 | 56916 | 58480 | 52345 | 59886 | 67569 | 81268 | 79871 | 82442 | 86846 | 89781 |
| 5.1 | Registered | 29030 | 31028 | 32324 | 32388 | 30865 | 31114 | 25442 | 38518 | 46930 | 53893 | 40710 | 44341 | 45411 | 46946 |
| 5.2 | Un-registered | 24122 | 26150 | 29863 | 26177 | 26051 | 27366 | 26903 | 21368 | 20639 | 27375 | 39161 | 38101 | 41435 | 42835 |
| 6 | Electricity, Gas & Water supply | 5509 | 3394 | 2438 | 1354 | 2898 | 1518 | 3157 | 1845 | 1695 | 6786 | 5736 | 4599 | 4836 | 5092 |
| 6.1 | Electricity | 5077 | 2885 | 2025 | 855 | 2566 | 891 | 2240 | 780 | 512 | 5484 | 4261 | 3267 | 3431 | 3604 |
| 6.2 | Gas | 85 | 84 | 87 | 95 | 67 | 354 | 612 | 645 | 717 | 794 | 934 | 944 | 1037 | 1139 |
| 6.3 | Water Supply | 347 | 425 | 326 | 404 | 265 | 273 | 305 | 420 | 466 | 508 | 541 | 388 | 368 | 349 |
| 7 | Construction | 34496 | 31495 | 28944 | 31405 | 31509 | 35732 | 33176 | 31876 | 35599 | 37280 | 40270 | 40811 | 42725 | 44729 |
| Sub Total-Secondary | | 93157 | 92067 | 93569 | 91324 | 91323 | 95730 | 88678 | 93607 | 104863 | 125334 | 125877 | 127852 | 134407 | 139602 |
| 8 | Transport, Storage & Communication | 13625 | 14271 | 14832 | 15691 | 18644 | 21034 | 22214 | 24012 | 24819 | 25125 | 29491 | 34579 | 36669 | 39023 |
| 8.1 | Railways | 419 | 646 | 629 | 686 | 705 | 836 | 807 | 872 | 879 | 837 | 873 | 1442 | 1512 | 1714 |
| 8.2 | Tran.other means & storage | 10770 | 10841 | 11352 | 11879 | 14717 | 16967 | 17966 | 19538 | 19755 | 19953 | 24165 | 28667 | 30565 | 32714 |
| 8.3 | Communication | 2436 | 2784 | 2851 | 3126 | 3222 | 3231 | 3441 | 3602 | 4185 | 4335 | 4453 | 4470 | 4532 | 4595 |
| 9 | Trade, Hotel & Restaurants | 57577 | 57398 | 59707 | 56368 | 60364 | 61095 | 60059 | 61849 | 67734 | 71177 | 72386 | 77043 | 80432 | 83971 |
| 10 | Banking and Insurance | 11428 | 12098 | 13654 | 14914 | 16867 | 19193 | 23029 | 27145 | 28974 | 35596 | 38505 | 36083 | 36891 | 37647 |
| 11 | Real Estate & Ownership of Dwellings | 12198 | 12166 | 12567 | 12178 | 11840 | 9011 | 7639 | 6324 | 3448 | 2760 | 2813 | 365 | 367 | 369 |
| 12 | Public Administration | 15133 | 15375 | 17005 | 17515 | 19267 | 20208 | 22889 | 25269 | 26758 | 30095 | 32501 | 38846 | 33060 | 37890 |
| 13 | Other Services | 29185 | 29953 | 30608 | 31278 | 31825 | 32396 | 32887 | 33567 | 34083 | 34653 | 35275 | 36271 | 36903 | 37698 |
| Sub Total-Tertiary | | 139146 | 141261 | 148373 | 147944 | 158807 | 162937 | 168717 | 178166 | 185816 | 199406 | 210971 | 213187 | 224322 | 236598 |
| Net State Domestic Product | | 82273 | 377481 | 386851 | 371168 | 394158 | 408636 | 399297 | 416563 | 458410 | 489236 | 526234 | 536466 | 567978 | 593957 |
| Population ('000) | | 25357 | 25699 | 26046 | 26398 | 26754 | 27115 | 27481 | 28114 | 28402 | 28693 | 28987 | 29378 | 29775 | 30177 |
| Per Capita Income (Rs) | | 1508 | 1469 | 1485 | 1406 | 1473 | 1507 | 1453 | 1482 | 1614 | 1705 | 1815 | 1826 | 1908 | 1968 |

Note : * Provisional @ Quick estimates
Source : Department of Economics and Statistics

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APPENDIX 2.3

Net State Domestic Product at Factor Cost by Industry of Origin (At current prices)

(Rs. Lakhs)

| Sl.No | Industry of Origin | 1980-81 | 1981-82 | 1982-83 | 1983-84 | 1984-85 | 1985-86 | 1986-87 | 1987-88 | 1988-89 | 1989-90 | 1990-91 | 1991-92 | 1992-93* | 1993-94a |
|-----------------------------------|--------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
| 1 | Agriculture | 129384 | 131163 | 153826 | 199323 | 214908 | 203536 | 234755 | 261685 | 285915 | 308536 | 351843 | 527417 | 614705 | 610218 |
| 2 | Forestry and Logging | 12382 | 8048 | 14364 | 8097 | 8448 | 9018 | 9872 | 7170 | 6287 | 9996 | 8376 | 12446 | 14461 | 16802 |
| 3 | Fishing | 7743 | 6292 | 7923 | 8938 | 8942 | 11777 | 12104 | 10661 | 16845 | 28370 | 37193 | 50685 | 66448 | 87113 |
| 4 | Mining and Quarrying | 461 | 640 | 754 | 690 | 1014 | 920 | 912 | 1159 | 1966 | 2219 | 3189 | 3528 | 3943 | 4406 |
| Sub Total-Primary | | 149970 | 146143 | 176867 | 217048 | 233312 | 225251 | 257643 | 280675 | 311013 | 349121 | 400601 | 594076 | 699557 | 718539 |
| 5 | Manufacturing | 53152 | 61585 | 71171 | 75013 | 79448 | 86335 | 90178 | 112815 | 131873 | 177944 | 191390 | 232742 | 240981 | 249126 |
| 5.1 | Registered | 29030 | 33461 | 36640 | 41755 | 45368 | 47610 | 48892 | 75186 | 92453 | 120182 | 100146 | 124154 | 128549 | 132894 |
| 5.2 | Un-registered | 24122 | 28124 | 34561 | 33258 | 34080 | 38725 | 41286 | 37629 | 39420 | 57762 | 91244 | 108588 | 112432 | 116232 |
| 6 | Electricity, Gas & Water supply | 5509 | 3647 | 2797 | 1785 | 4307 | 2360 | 5920 | 3420 | 3163 | 12585 | 11632 | 12015 | 12778 | 13598 |
| 6.1 | Electricity | 5077 | 3111 | 2293 | 1102 | 3772 | 1363 | 4305 | 1523 | 1014 | 10140 | 8709 | 9147 | 9607 | 10090 |
| 6.2 | Gas | 85 | 95 | 101 | 109 | 87 | 459 | 909 | 960 | 1099 | 1177 | 1383 | 1586 | 1794 | 2029 |
| 6.3 | Water Supply | 347 | 441 | 403 | 574 | 448 | 538 | 706 | 937 | 1050 | 1268 | 1540 | 1282 | 1377 | 1479 |
| 7 | Construction | 34496 | 38427 | 42657 | 52889 | 60378 | 77439 | 76657 | 82617 | 94989 | 102161 | 117771 | 129213 | 143233 | 158774 |
| Sub Total-Secondary | | 93157 | 103659 | 116625 | 129687 | 144133 | 166134 | 172755 | 198852 | 230025 | 292690 | 320793 | 373970 | 396992 | 421498 |
| 8 | Transport, Storage & Communication | 13625 | 14725 | 18781 | 23676 | 32009 | 37448 | 44678 | 56718 | 64082 | 73748 | 80428 | 87275 | 95086 | 103378 |
| 8.1 | Railways | 419 | 835 | 1010 | 1181 | 1039 | 1529 | 1898 | 2967 | 3336 | 2881 | 3310 | 3769 | 3868 | 3770 |
| 8.2 | Tran.other means & storage | 10770 | 11482 | 14769 | 18976 | 26838 | 31446 | 37016 | 47032 | 50493 | 59076 | 62853 | 67368 | 71935 | 76812 |
| 8.3 | Communication | 2436 | 2408 | 3002 | 3519 | 4132 | 4473 | 5764 | 6719 | 10253 | 11791 | 14265 | 16138 | 19283 | 22596 |
| 9 | Trade, Hotel & Restaurants | 57577 | 60383 | 70111 | 81958 | 88750 | 89131 | 107859 | 125020 | 129161 | 142853 | 164734 | 180437 | 200230 | 222195 |
| 10 | Banking and Insurance | 11428 | 16206 | 19803 | 22873 | 27198 | 31424 | 37053 | 39359 | 49637 | 61310 | 71661 | 76413 | 89331 | 103660 |
| 11 | Real Estate & Ownership of Dwellings | 12198 | 12359 | 13152 | 12868 | 13159 | 10463 | 9055 | 7572 | 4347 | 4031 | 4353 | 586 | 615 | 645 |
| 12 | Public Administration | 15133 | 16873 | 17489 | 19259 | 25191 | 30806 | 39146 | 44417 | 48096 | 55206 | 69447 | 77716 | 89070 | 102083 |
| 13 | Other Services | 29185 | 34625 | 38322 | 44959 | 50393 | 59684 | 67248 | 73143 | 81811 | 87809 | 105332 | 119692 | 130069 | 141346 |
| Sub Total-Tertiary | | 139146 | 155171 | 177658 | 205593 | 236700 | 258956 | 305039 | 346229 | 377134 | 424957 | 495955 | 542119 | 604401 | 673307 |
| Net State Domestic Product | | 382273 | 404973 | 471150 | 552328 | 614145 | 650341 | 735437 | 825756 | 918172 | 1066768 | 1217349 | 1510165 | 1700950 | 1813344 |
| Population ('000) | | 25357 | 25699 | 26046 | 26398 | 26754 | 27115 | 27481 | 28114 | 28402 | 28693 | 28987 | 29378 | 29775 | 30177 |
| Per Capita Income (Rs) | | 1508 | 1576 | 1809 | 2092 | 2296 | 2398 | 2676 | 2937 | 3233 | 3718 | 4200 | 4150 | 5713 | 6009 |

Note : * Provisional @ Quick estimates
Source : Department of Economics and Statistics

APPENDIX - 2.4

Sectoral Distribution of Net Domestic Product of Districts at Factor Cost

(New Series)

(Rs. Lakhs)

| Sl. No. District | Year | At Current Prices | | | | At Constant (1980-81) Prices | | | |
|-----------------------|---------|-------------------|------------------|------------------|-----------------|------------------------------|------------------|------------------|----------------|
| | | Primary | Secondary | Tertiary | Total | Primary | Secondary | Tertiary | Total |
| 1. Thiruvananthapuram | 1980-81 | 12166 (31.79) | 9742 (25.46) | 16360 (42.75) | 38268 (100) | 12166 (31.79) | 9742 (25.46) | 16360 (42.75) | 38268 (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 (24.76) | 67029 (45.74) | 146558 (100) | 14839 (28.15) | 12309 (22.67) | 25994 (49.18) | 53142 (100) |
| | 1992-93 | 50456 (30.70) | 38641 (23.51) | 75252 (45.79) | 164349 (100) | 15834 (28.00) | 13031 (23.05) | 27671 (48.95) | 56536 (100) |
| | 1993-94 | 50284 (28.60) | 41166 (23.51) | 84401 (48.00) | 175845 (100) | 16377 (27.54) | 13536 (22.77) | 29545 (49.69) | 59458 (100) |
| 2. Kollam | 1980-81 | 19708 (45.57) | 10068 (23.28) | 13471 (31.15) | 43247 (100) | 17860 (39.93) | 10253 (22.92) | 16617 (37.15) | 44730 (100) |
| | 1990-91 | 39457 (37.84) | 25794 (24.74) | 39030 (37.42) | 104281 (100) | 17860 (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 | 54137 (40.49) | 32036 (23.96) | 47538 (35.55) | 133711 (100) | 16034 (35.95) | 10970 (24.99) | 17602 (39.46) | 44606 (100) |
| | 1993-94 | 55914 (39.17) | 33856 (23.72) | 52975 (37.11) | 142745 (100) | 16708 (35.29) | 11390 (24.40) | 18584 (39.81) | 46682 (100) |
| 3. 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 (39.06) | 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 | 30093 (43.90) | 11572 (16.88) | 26889 (39.22) | 68554 (100) | 9513 (39.04) | 4081 (16.74) | 10777 (44.22) | 24371 (100) |
| | 1993-94 | 30622 (41.96) | 11336 (16.91) | 30014 (41.13) | 72972 (100) | 13310 (36.77) | 8182 (22.60) | 14706 (40.63) | 36198 (100) |
| 4. 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 (36.77) | 9453 (22.60) | 14706 (40.63) | 37469 (100) |
| | 1991-92 | 36558 (37.18) | 23816 (24.22) | 37952 (38.60) | 98326 (100) | 10984 (32.27) | 8164 (24.00) | 14881 (43.73) | 34029 (100) |
| | 1992-93 | 43988 (39.46) | 25214 (22.62) | 42277 (37.92) | 111479 (100) | 11881 (32.83) | 8657 (23.92) | 15648 (43.25) | 36186 (100) |
| | 1993-94 | 47661 (39.25) | 26695 (21.98) | 47070 (38.76) | 121426 (100) | 12539 (32.98) | 8989 (23.64) | 16495 (43.38) | 38023 (100) |

Sectoral Distribution of Net Domestic Product of Districts at Factor Cost (Contd ..)

(Rs. Lakhs)

| Sl. No. District | Year | At Current Prices | | | | At Constant (1980-81) Prices | | | |
|------------------|---------|-------------------|-------------------|------------------|-----------------|------------------------------|------------------|------------------|----------------|
| | | Primary | Secondary | Tertiary | Total | Primary | Secondary | Tertiary | Total |
| 5. 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) | 73493 (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) | 14026 (42.90) | 3192 (9.76) | 15479 (47.34) | 32697 (100) |
| | 1992-93 | 49768 (47.93) | 9821 (9.46) | 44237 (42.61) | 103826 (100) | 16015 (43.26) | 3413 (9.83) | 16279 (46.91) | 34707 (100) |
| | 1993-94 | 50800 (45.98) | 10399 (9.41) | 49294 (44.61) | 110493 (100) | 15610 (42.97) | 3547 (9.78) | 17163 (47.25) | 36320 (100) |
| 6. Idukki | 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) | 11758 (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 | 47975 (63.53) | 13232 (17.52) | 14311 (18.95) | 75518 (100) | 14962 (61.23) | 4210 (17.23) | 5264 (21.54) | 24436 (100) |
| | 1993-94 | 48066 (61.36) | 14381 (18.36) | 15891 (20.28) | 78338 (100) | 15483 (60.94) | 4394 (17.29) | 5532 (21.77) | 25409 (100) |
| 7. 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 | 80092 (31.37) | 98291 (38.50) | 76918 (30.13) | 255301 (100) | 20564 (24.78) | 33422 (31.63) | 29013 (34.96) | 82999 (100) |
| | 1993-94 | 88927 (31.92) | 103750 (37.24) | 85940 (30.85) | 278617 (100) | 21866 (25.12) | 34670 (39.83) | 30506 (35.05) | 87042 (100) |
| 8. 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) |
| | 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 | 55594 (34.08) | 45148 (27.68) | 62392 (38.25) | 163134 (100) | 16604 (30.15) | 15258 (27.71) | 23203 (42.14) | 55065 (100) |
| | 1993-94 | 57162 (32.77) | 47893 (27.46) | 69356 (39.77) | 174411 (100) | 17282 (30.04) | 15845 (27.55) | 24397 (42.41) | 57524 (100) |

Sectoral Distribution of Net Domestic Product of Districts at Factor Cost (Contd ..)

(Rs. Lakhs)

| Sl. No. District | Year | At Current Prices | | | | At Constant (1980-81) Prices | | | |
|------------------|---------|-------------------|------------------|------------------|-----------------|------------------------------|------------------|------------------|----------------|
| | | Primary | Secondary | Tertiary | Total | Primary | Secondary | Tertiary | Total |
| 9. Palakkad | 1980-81 | 10758 (40.47) | 6179 (23.25) | 9644 (36.28) | 26581 (100) | 10758 (40.47) | 6179 (23.25) | 9644 (36.28) | 26581 (100) |
| | 1990-91 | 29200 (33.41) | 23572 (26.97) | 34627 (39.62) | 87399 (100) | 14496 (37.61) | 9371 (24.32) | 14672 (38.07) | 38539 (100) |
| | 1991-92 | 52943 (49.71) | 27542 (28.26) | 37940 (32.04) | 118425 (100) | 17925 (42.41) | 9451 (22.36) | 14889 (35.23) | 42265 (100) |
| | 1992-93 | 61944 (46.44) | 29154 (21.86) | 42288 (31.70) | 133386 (100) | 19144 (42.74) | 9991 (22.31) | 15692 (35.04) | 44787 (100) |
| | 1993-94 | 62359 (44.44) | 30860 (21.99) | 47099 (33.57) | 140318 (100) | 19840 (42.48) | 10375 (22.21) | 16492 (35.31) | 46707 (100) |
| 10. Malappuram | 1980-81 | 11986 (48.18) | 3300 (13.27) | 9590 (38.55) | 24876 (100) | 11986 (48.18) | 3300 (13.27) | 9590 (38.55) | 24876 (100) |
| | 1990-91 | 33699 (42.15) | 11631 (14.55) | 34613 (43.29) | 79943 (100) | 14969 (44.36) | 4373 (12.96) | 14404 (42.68) | 33746 (100) |
| | 1991-92 | 51219 (50.03) | 13167 (12.86) | 37986 (37.11) | 102372 (100) | 17284 (47.36) | 4389 (12.03) | 14821 (40.61) | 36494 (100) |
| | 1992-93 | 59726 (51.44) | 14235 (12.26) | 42137 (36.29) | 116098 (100) | 18422 (47.71) | 4628 (11.98) | 15565 (40.31) | 38615 (100) |
| | 1993-94 | 60446 (49.32) | 15400 (12.56) | 46721 (38.12) | 122567 (100) | 19085 (47.37) | 4824 (11.97) | 16383 (40.66) | 40292 (100) |
| 11. Kozhikode | 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) | 12645 (28.84) | 11758 (26.81) | 19179 (43.74) | 43852 (100) |
| | 1991-92 | 43043 (33.65) | 34866 (27.26) | 49989 (39.09) | 127898 (100) | 14584 (31.67) | 11857 (31.67) | 19615 (42.59) | 46056 (100) |
| | 1992-93 | 50331 (18.58) | 37090 (13.69) | 55583 (20.52) | 143004 (100) | 15571 (31.97) | 12521 (25.71) | 20609 (42.32) | 48701 (100) |
| | 1993-94 | 50714 (33.37) | 39466 (25.97) | 61774 (40.65) | 151954 (100) | 16135 (31.73) | 13008 (25.58) | 21766 (42.68) | 50843 (100) |
| 12. Wayanad | 1990-91 | 17587 (61.03) | 4182 (14.51) | 7047 (24.46) | 28816 (100) | 8685 (64.86) | 1711 (12.46) | 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 | 24613 (64.18) | 5153 (13.44) | 8581 (22.38) | 38347 (100) | 7701 (60.57) | 1817 (14.29) | 3196 (25.14) | 12714 (100) |
| | 1993-94 | 24612 (62.18) | 5419 (13.69) | 9550 (24.13) | 39581 (100) | 7967 (60.28) | 1884 (14.26) | 3365 (25.46) | 13216 (100) |

Sectoral Distribution of Net Domestic Product of Districts at Factor Cost (Contd..)

(Rs. Lakhs)

| Sl. No. District | Year | At Current Prices | | | | At Constant (1980-81) Prices | | | |
|------------------|---------|-------------------|-------------------|-------------------|------------------|------------------------------|-------------------|-------------------|-----------------|
| | | Primary | Secondary | Tertiary | Total | Primary | Secondary | Tertiary | Total |
| 13. Kannur | 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 (47.45) | 86896 (100) | 11425 (30.57) | 8472 (22.67) | 17471 (46.75) | 37368 (100) |
| | 1991-92 | 51480 (42.20) | 25302 (20.74) | 45198 (37.05) | 121980 (100) | 17506 (39.88) | 8603 (19.60) | 17786 (40.52) | 43895 (100) |
| | 1992-93 | 60170 (43.76) | 26940 (19.59) | 50375 (36.64) | 137485 (100) | 18688 (40.23) | 9066 (19.51) | 18704 (40.26) | 46458 (100) |
| | 1993-94 | 60443 (41.62) | 28693 (19.76) | 56094 (38.62) | 145235 (100) | 19359 (39.92) | 3421 (19.43) | 19715 (40.65) | 48495 (100) |
| 14. Kasargode | 1990-91 | 17535 (44.92) | 8511 (21.80) | 12992 (33.28) | 39038 (100) | 8169 (49.11) | 3291 (19.78) | 5175 (31.12) | 16635 (100) |
| | 1991-92 | 26319 (52.26) | 9788 (19.43) | 14258 (28.30) | 50365 (100) | 9062 (50.79) | 3305 (18.52) | 5476 (30.69) | 17843 (100) |
| | 1992-93 | 30670 (54.04) | 10465 (18.44) | 15623 (27.53) | 56758 (100) | 9663 (51.24) | 3498 (18.55) | 5699 (30.22) | 18860 (100) |
| | 1993-94 | 30529 (51.88) | 11190 (19.02) | 17123 (29.10) | 58842 (100) | 9993 (51.05) | 3638 (18.58) | 5944 (30.36) | 19575 (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 | 400801 (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 | 699557 (41.13) | 396992 (23.34) | 604401 (35.53) | 1700950 (100) | 209249 (36.84) | 134407 (23.66) | 224322 (39.49) | 567978 (100) |
| | 1993-94 | 718539 (39.63) | 421498 (23.24) | 673307 (37.13) | 1813344 (100) | 217757 (36.66) | 139602 (23.50) | 236598 (39.83) | 593957 (100) |

Note : 1. Figures for 1992-93 are provisional estimates.
2. Figures for 1993-94 are quick estimates.

Source: Department of Economics and Statistics.

APPENDIX 2.5

District-wise Distribution of State Income at Constant (1980-81) Prices and 1993-94

(Rs. lakhs)

| Sl No. District | 1980-81 | | | | 1993-94 | | | | Population ('000)* | | |
|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|-----------------|------|
| | Primary | Secondary | Tertiary | Total | Primary | Secondary | Tertiary | Total | 1980-81 | 1993-94 | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
| 1. Thiruvananthapuram | 12166 (8.11) | 9742 (10.46) | 16360 (11.76) | 38268 (10.01) | 16377 (7.52) | 13536 (9.70) | 29545 (12.49) | 59458 (10.01) | 2579 (10.17) | 3057 (10.13) | |
| 2. Kollam | 19708 (13.14) | 10068 (10.81) | 13471 (9.68) | 43247 (11.31) | 16708 (7.67) | 11390 (8.16) | 18584 (7.85) | 46682 (7.86) | 2875 (11.34) | 2495 (8.27) | |
| 3. Pathanamthitta | .. | .. | .. | .. | 9513 (4.37) | 4081 (2.32) | 10777 (4.55) | 24371 (4.10) | .. | 1231 (4.08) | |
| 4. Alappuzha | 10149 (6.77) | 7675 (8.24) | 12985 (9.33) | 30809 (8.06) | 12539 (5.76) | 8989 (6.44) | 16495 (6.97) | 38023 (6.40) | 2350 (9.28) | 2016 (6.68) | |
| 5. Kottayam | 10777 (7.19) | 3616 (3.88) | 10240 (7.36) | 24633 (6.44) | 15610 (7.17) | 3547 (2.54) | 17163 (7.25) | 36320 (6.11) | 1696 (6.69) | 1895 (6.28) | |
| 6. Idukki | 10506 (7.00) | 5469 (5.87) | 3295 (2.37) | 19270 (5.04) | 18483 (8.49) | 4394 (3.15) | 5532 (2.34) | 25409 (4.28) | 966 (3.81) | 1120 (3.71) | |
| 7. Ernakulam | 12830 (8.56) | 18385 (19.74) | 19782 (14.22) | 50997 (13.34) | 21886 (10.04) | 35670 (25.55) | 30506 (12.89) | 87042 (14.65) | 2528 (9.97) | 2921 (9.68) | |
| 8. Thrissur | 12263 (8.18) | 9083 (9.75) | 14198 (10.20) | 35544 (9.30) | 17082 (7.94) | 15845 (11.35) | 24397 (10.31) | 57524 (9.68) | 2432 (9.59) | 2840 (9.41) | |
| 9. Palakkad | 10758 (7.17) | 6179 (6.63) | 9644 (6.93) | 26581 (6.95) | 19840 (9.11) | 10375 (7.43) | 16492 (6.97) | 46707 (7.86) | 2034 (8.02) | 2472 (8.19) | |
| 10. Malappuram | 11986 (7.99) | 3300 (3.54) | 9590 (6.89) | 24876 (6.51) | 19055 (8.76) | 4824 (3.46) | 16383 (6.92) | 40292 (6.78) | 2381 (9.39) | 3211 (10.64) | |
| 11. Kozhikode | 16048 (10.70) | 10915 (11.72) | 14543 (10.45) | 41506 (10.86) | 16135 (7.41) | 13008 (9.68) | 2170 (0.92) | 50843 (8.56) | 2614 (10.31) | 2716 (9.00) | |
| 12. Wayanad | .. | .. | .. | .. | 7967 (3.66) | 1884 (1.35) | 3365 (1.42) | 13216 (2.23) | .. | 697 (2.31) | |
| 13. Kannur | 22779 (15.19) | 8725 (9.37) | 15038 (10.81) | 46542 (12.18) | 19359 (8.89) | 9421 (6.75) | 19715 (8.33) | 48495 (8.16) | 2962 (11.68) | 2335 (7.74) | |
| 14. Kasargode | .. | .. | .. | .. | 9993 (4.59) | 3638 (2.61) | 5944 (2.51) | 19575 (3.30) | .. | 1111 (3.68) | |
| State Domestic Product | 149970 (100) | 93157 (100) | 139146 (100) | 382273 (100) | 217757 (100) | 139602 (100) | 236598 (100) | 593957 (100) | 25357 (100) | 30177 (100) | |

Figures in bracket indicates Percentage to the State total

Q - quick estimate

* - mid year population

APPENDIX 2.6

Distribution of Work Seekers in Kerala by Educational Levels

(No.)

| Year as on 31st December | Total Work Seekers | Below S.S.L.C. | S.S.L.C. | Pre-Degree | Graduates No | Post Graduates | S.S.L.C and above No | Per cent |
|--------------------------|--------------------|----------------|----------|------------|--------------|----------------|----------------------|----------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1980 | 1579164 | 765141 | 658652 | 79310 | 67841 | 8220 | 814023 | 51.55 |
| 1981 | 1903719 | 979830 | 748898 | 90254 | 77694 | 7043 | 923889 | 48.53 |
| 1982 | 2086056 | 1049320 | 842772 | 102644 | 84161 | 7159 | 1036736 | 49.70 |
| 1983 | 2262240 | 1128860 | 920622 | 117161 | 88557 | 7040 | 1133380 | 50.10 |
| 1984 | 2458206 | 1194453 | 1050073 | 121369 | 84025 | 8286 | 1263753 | 51.40 |
| 1985 | 2574074 | 1208724 | 1116495 | 148464 | 90329 | 10062 | 1365350 | 53.05 |
| 1986 | 2704874 | 1209462 | 1251793 | 136193 | 97217 | 10209 | 1495412 | 55.30 |
| 1987 | 2991022 | 1270764 | 1434413 | 161155 | 111008 | 13682 | 1720258 | 57.50 |
| 1988 | 2901051 | 1185145 | 1438051 | 160233 | 100330 | 17292 | 1715906 | 59.10 |
| 1989 | 3092031 | 1204737 | 1565709 | 188978 | 111372 | 21235 | 1887294 | 61.04 |
| 1990 | 3320035 | 1227319 | 1655465 | 273725 | 135213 | 28313 | 2092716 | 63.03 |
| 1991 | 3638804 | 1318514 | 1885304 | 257173 | 150014 | 27799 | 2320290 | 63.76 |
| 1992 | 3847063 | 1345260 | 2027567 | 283556 | 161571 | 29109 | 2501803 | 65.00 |
| 1993 | 4156892 | 1412925 | 2210314 | 317719 | 181605 | 34329 | 2743967 | 66.00 |
| 1994* | 4023219 | 1360892 | 2139980 | 305393 | 181811 | 35143 | 2662327 | 66.00 |

* as on May 1994

Source : Directorate of Employment and Training, Thiruvananthapuram.

APPENDIX 2.7

Number of Professional and Technical Work Seekers, Kerala

(No.)

| Year | Medical Graduates | Engineering Graduates | Dip. holders in Engg.&Tech. | ITI Cert. Holders | Agri. Graduates | Veterinary Graduates | Total |
|-------|-------------------|-----------------------|-----------------------------|-------------------|-----------------|----------------------|--------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1980 | 871 | 1505 | 6833 | 28873 | 106 | 17 | 38205 |
| 1981 | 681 | 1217 | 7866 | 33569 | 103 | 14 | 43450 |
| 1982 | 912 | 1662 | 7824 | 36043 | 195 | 15 | 46651 |
| 1983 | 829 | 1757 | 9756 | 41682 | 218 | 14 | 54256 |
| 1984 | 1035 | 2312 | 11646 | 68452 | 263 | 42 | 83750 |
| 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 | 16766 | 64629 | 324 | 49 | 87482 |
| 1989 | 1481 | 5649 | 19273 | 70971 | 446 | 26 | 97846 |
| 1990 | 1806 | 6507 | 20154 | 87069 | 368 | 128 | 116032 |
| 1991 | 2588 | 7762 | 22399 | 75898 | 363 | 13 | 109023 |
| 1992 | 3123 | 9286 | 25810 | 89616 | 219 | 83 | 128137 |
| 1993 | 3318 | 9549 | 34680 | 87962 | 451 | 110 | 136070 |
| 1994* | 3369 | 9947 | 30716 | 81261 | 4030 | 105 | 129428 |

Note : * Up to May, 1994

APPENDIX 2.8

Employment in the Organised Sector - Kerala

| Year ending as on 31st December | Public Sector | | Private Sector | | Total | |
|---------------------------------------|---------------|-------|----------------|-------|---------|-------|
| | No. | Index | No. | Index | No | Index |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1970 | 293318 | 52.1 | 409562 | 80.1 | 702880 | 65.4 |
| 1975 | 418151 | 74.2 | 462712 | 90.5 | 880863 | 82.0 |
| 1980 | 496659 | 88.2 | 526459 | 103.0 | 1023118 | 95.2 |
| 1981 | 516478 | 91.7 | 528309 | 103.4 | 1044787 | 97.3 |
| 1982 | 536864 | 95.3 | 518282 | 101.4 | 1055146 | 98.2 |
| 1983 | 550670 | 97.8 | 519512 | 101.7 | 1070182 | 99.6 |
| 1984 | 565587 | 100.4 | 513503 | 100.5 | 1079090 | 100.5 |
| 1985 | 568713 | 101.0 | 507375 | 99.3 | 1076088 | 100.2 |
| 1986 | 576784 | 102.4 | 519135 | 101.6 | 1095899 | 102.0 |
| 1987 | 585391 | 104.0 | 508917 | 99.6 | 1094308 | 101.9 |
| 1988 | 602696 | 107.0 | 501653 | 98.2 | 1104349 | 102.8 |
| 1989 | 620254 | 110.1 | 486354 | 95.2 | 1106608 | 103.0 |
| 1990 | 634379 | 112.6 | 512034 | 100.2 | 1146413 | 106.7 |
| 1991 | 648514 | 115.1 | 525903 | 102.9 | 1174412 | 109.3 |
| 1992 | 648215 | 115.1 | 532922 | 104.3 | 1181137 | 109.9 |
| 1993 * | 646625 | 114.8 | 539117 | 105.5 | 1185742 | 110.3 |

Note :(*) as on March, 1993 (Provisional)

Base 31.3.1985 = 100

Source:- Directorate of Employment and Training,

APPENDIX - 2.9

Country-wise deployment of personnel by ODEPC

| (No.) | | | | | |
|-------|-----------------|---------|---------|---------|-------------|
| Sl No | Name of country | 1991-92 | 1992-93 | 1993-94 | 1994-95 (*) |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Kuwait | 7 | 3 | -- | -- |
| 2. | Mascot | 1 | ... | -- | -- |
| 3. | Malaysia | 1 | ... | -- | -- |
| 4. | Qatar | ... | 1 | 2 | 2 |
| 5. | Saudi Arabia | 291 | 106 | 76 | 73 |
| 6. | Singapore | 36 | ... | -- | -- |
| 7. | U.A.E. | ... | 1 | 12 | 12 |
| 8. | Bahrain | ... | 2 | -- | -- |
| 9. | Cyprus | ... | 1 | -- | -- |
| 10. | Yemen | -- | -- | 1 | 1 |
| Total | | 336 | 114 | 91 | 88 |

(*) As on December 1994

APPENDIX 2.10

Unemployment Assistance Scheme : Kerala 1982-83 to 1994-95

| Year | Applications received (No.) | No. of Beneficiaries (No.) | Amount disbursed (Rs. lakhs) |
|----------|-----------------------------|----------------------------|------------------------------|
| (1) | (2) | (3) | (4) |
| 1982-83 | 161211 | 44011 | 80.22 |
| 1983-84 | 44744 | 98261 | 649.79 |
| 1984-85 | 102939 | 136471 | 768.52 |
| 1985-86 | 48715 | 179146 | 1012.08 |
| 1986-87 | 113809 | 218446 | 835.00 |
| 1987-88 | 92555 | 205556 | 1095.65 |
| 1988-89 | 64887 | 215456 | 2353.77 |
| 1989-90 | 81159 | 246040 | 1996.37 |
| 1990-91 | 118279 | 264314 | 1934.88 |
| 1991-92 | 99814 | 260196 | 1619.64 |
| 1992-93 | ... | 229149 | 625.68 |
| 1993-94 | 121376 | 273512 | 1748.65 |
| 1994-95* | 1049488 | 467851 | 6864.27 |

* as on 31.7.1994

Source: Directorate of Employment and Training, Thiruvananthapuram.

APPENDIX 2.11

Area and Density of Population - 1991

(Area - sq. kms; density - no. of persons per sq. km.)

| District | Area | | | Density | | |
|--------------------|--------------|-----------------|----------------|------------|------------|-------------|
| | Total | Rural | Urban | Total | Rural | Urban |
| Kasargode | 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 |
| Thrissur | 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 |
| Thiruvananthapuram | 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

(Lakhs)

| District | Persons | | | Male | | | Female | | |
|--------------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|--------------|
| | Total | Rural | Urban | Total | Rural | Urban | Total | Rural | Urban |
| Kasargode | 10.72 | 8.95 | 1.76 | 5.29 | 4.43 | 0.86 | 5.43 | 4.53 | 0.90 |
| Kannur | 22.52 | 11.06 | 11.45 | 10.99 | 5.46 | 5.53 | 11.53 | 5.61 | 5.92 |
| Wayanad | 6.72 | 6.49 | 0.23 | 3.42 | 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 | 8.19 | 5.08 |
| Malappuram | 30.96 | 28.14 | 2.82 | 15.08 | 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 | 10.35 | 1.92 |
| Thrissur | 27.37 | 20.17 | 7.20 | 13.13 | 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 | 7.21 | 6.87 |
| Idukki | 10.78 | 10.27 | 0.51 | 5.46 | 5.20 | 0.26 | 5.32 | 5.07 | 0.25 |
| Kottayam | 18.28 | 15.07 | 3.21 | 9.13 | 7.52 | 1.61 | 9.15 | 7.55 | 1.60 |
| Alappuzha | 20.01 | 13.92 | 6.10 | 9.76 | 6.77 | 2.99 | 10.25 | 7.14 | 3.11 |
| Pathanamthitta | 11.88 | 10.33 | 1.55 | 5.76 | 5.01 | 0.75 | 6.12 | 5.32 | 0.80 |
| Kollam | 24.08 | 19.62 | 4.46 | 11.83 | 9.62 | 2.21 | 12.25 | 9.99 | 2.25 |
| Thiruvananthapuram | 29.47 | 19.48 | 9.98 | 14.48 | 9.55 | 4.92 | 14.99 | 9.93 | 5.06 |
| Kerala | 290.99 | 214.18 | 76.80 | 142.89 | 105.13 | 37.76 | 148.10 | 109.05 | 39.04 |

APPENDIX 2.13

Three-year Moving Average of Birth and Death Rates Kerala and India
1981-92

(Per Mille)

| Period | Kerala | | | | | | India | | | | | |
|----------|--------|-----|-------|-----|-------|-----|-------|------|-------|------|-------|-----|
| | Total | | Rural | | Urban | | Total | | Rural | | Urban | |
| | BR | DR | BR | DR | BR | DR | BR | DR | BR | DR | BR | DR |
| 1981-83 | 25.6 | 6.6 | 25.8 | 6.7 | 24.5 | 6.4 | 33.8 | 12.1 | 35.4 | 13.3 | 27.8 | 7.7 |
| 1982-84 | 24.7 | 6.6 | 24.7 | 6.5 | 24.7 | 6.9 | 33.8 | 12.1 | 35.3 | 13.3 | 28.6 | 8.0 |
| 1983-85 | 23.7 | 6.5 | 23.6 | 6.5 | 24.4 | 6.9 | 33.6 | 12.1 | 35.0 | 13.3 | 28.6 | 8.1 |
| 1984-86 | 22.9 | 6.3 | 22.7 | 6.2 | 23.7 | 6.9 | 33.2 | 11.8 | 34.6 | 13.0 | 28.2 | 8.0 |
| 1985-87 | 21.5 | 6.2 | 22.3 | 6.2 | 23.1 | 6.6 | 32.6 | 11.3 | 34.1 | 12.4 | 27.5 | 7.6 |
| 1986-88 | 22.5 | 6.2 | 21.3 | 6.1 | 22.3 | 6.6 | 32.1 | 11.0 | 33.6 | 12.0 | 26.9 | 7.6 |
| 1987-89 | 20.7 | 6.2 | 20.6 | 6.1 | 21.4 | 6.4 | 31.5 | 10.7 | 33.0 | 11.7 | 26.3 | 7.4 |
| 1988-90 | 20.0 | 6.1 | 19.9 | 6.1 | 20.6 | 6.3 | 30.8 | 10.3 | 32.3 | 11.2 | 25.4 | 7.2 |
| 1989-91 | 19.4 | 6.0 | 19.4 | 6.1 | 19.5 | 5.8 | 30.1 | 9.9 | 31.6 | 10.7 | 24.7 | 7.1 |
| 1990-92* | 18.5 | 6.1 | 18.4 | 6.1 | 18.7 | 5.9 | 29.5 | 9.8 | 31.1 | 10.7 | 24.0 | 7.0 |

Source: Sample Registration Bulletin, January 1994.
Vol. XXVIII, No. 1
Office of the Registrar General of India, New Delhi.

APPENDIX 2.14

Three-year Moving Average of Infant Mortality Rates
Kerala and India (1981-1992)

(Per Mille)

| Period | Kerala | | | India | | |
|-----------|--------|-------|-------|-------|-------|-------|
| | Total | Rural | Urban | Total | Rural | Urban |
| 1981-83 | 34 | 35 | 25 | 107 | 116 | 65 |
| 1982-84 | 31 | 32 | 26 | 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 | 60 |
| 1986-88 | 28 | 29 | 22 | 94 | 104 | 61 |
| 1987-89 | 26 | 27 | 21 | 93 | 102 | 60 |
| 1988-90 | 22 | 23 | 17 | 88 | 96 | 57 |
| 1989-91# | 18 | 19 | 15 | 84 | 90 | 54 |
| 1990-92#* | 17 | 17 | 15 | 80 | 86 | 52 |

Source: Sample Registration Bulletin, January 1994.
Vol. XXVIII, No. 1
Office of the Registrar General of India, New Delhi.

APPENDIX 2.15

Estimated Annual Live Birth Rates, Death Rates and
Infant Mortality Rate for Major States - 1992

(Provisional)

| States | Birth Rates | | | Death Rates | | | Infant Mortality Rates | | |
|------------------|-------------|-------|-------|-------------|-------|-------|------------------------|-------|-------|
| | Combined | Rural | Urban | Combined | Rural | Urban | Combined | Rural | Urban |
| INDIA * | 29.0 | 30.7 | 23.1 | 10.0 | 10.8 | 7.1 | 79 | 85 | 53 |
| Andhra Pradesh | 24.1 | 24.6 | 22.3 | 9.1 | 9.9 | 6.0 | 71 | 78 | 42 |
| Assam | 30.6 | 31.3 | 21.4 | 10.3 | 10.5 | 7.4 | 76 | 78 | 50 |
| Bihar | 32.2 | 33.0 | 25.0 | 10.9 | 11.3 | 6.9 | 72 | 74 | 49 |
| Gujarat | 27.9 | 29.3 | 24.5 | 9.1 | 9.4 | 8.2 | 67 | 71 | 54 |
| Haryana | 31.9 | 33.7 | 25.2 | 8.6 | 9.1 | 7.0 | 75 | 79 | 55 |
| Himachal Pradesh | 27.9 | 28.5 | 20.2 | 8.8 | 9.1 | 4.6 | 67 | 69 | 32 |
| Karnataka | 26.2 | 27.3 | 23.3 | 8.5 | 9.4 | 6.0 | 73 | 82 | 41 |
| Kerala | 17.5 | 17.4 | 18.3 | 6.3 | 6.2 | 6.5 | 17 | 17 | 13 |
| Madhya Pradesh | 34.4 | 36.2 | 26.5 | 12.7 | 13.7 | 8.5 | 104 | 109 | 74 |
| Maharashtra | 25.1 | 27.1 | 21.5 | 7.9 | 9.1 | 5.6 | 59 | 67 | 40 |
| Orissa | 27.8 | 28.5 | 21.4 | 11.7 | 12.1 | 7.8 | 114 | 117 | 80 |
| Punjab | 27.1 | 28.2 | 24.2 | 8.2 | 8.8 | 6.5 | 56 | 60 | 41 |
| Rajasthan | 34.7 | 36.2 | 27.8 | 10.4 | 11.0 | 7.5 | 89 | 93 | 65 |
| Tamilnadu | 20.7 | 21.1 | 20.0 | 8.4 | 9.2 | 6.7 | 58 | 67 | 40 |
| Uttar Pradesh | 36.2 | 37.9 | 28.9 | 12.8 | 13.7 | 9.0 | 98 | 102 | 78 |
| West Bengal | 24.6 | 27.8 | 16.4 | 8.3 | 9.0 | 6.6 | 64 | 70 | 38 |

Source: Sample Registration Bulletin, January 1994.

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Office of the Registrar General of India, New Delhi.

APPENDIX - 3.1

WHOLESALE PRICE INDEX OF AGRICULTURAL COMMODITIES - KERALA 1994

(Base: 1952-53 = 100)

| S1. 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 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 855.2 | 1161.9 | NA | NA | NA | 889.3 |
| 2. | Molasses | 1936.3 | 1816.2 | 1832.6 | 1962.7 | 1752.7 | 1696.2 | 1688.1 | 1691.7 | 1651.8 | " | " | " | 1780.9 |
| 3. | Condiments and spices | 1348.5 | 1547.2 | 1682.7 | 1785.9 | 2124.7 | 2046.9 | 1781.2 | 1822.3 | 1864.4 | " | " | " | 1778.2 |
| 4. | Fruits and Vegetables | 2382.3 | 2418.4 | 2440.4 | 2419.5 | 2458.3 | 2458.3 | 2548.1 | 2612.0 | 2634.2 | " | " | " | 2485.7 |
| 5. | Food crops | 1228.3 | 1263.0 | 1289.3 | 1306.7 | 1361.8 | 1347.3 | 1318.9 | 1336.5 | 1540.9 | " | " | " | 1332.5 |
| 6. | Oil seeds | 1985.5 | 2015.0 | 1973.1 | 1978.0 | 1901.7 | 1912.6 | 1812.7 | 1838.9 | 1845.0 | " | " | " | 1918.1 |
| 7. | Plantation crops | 1064.5 | 1069.4 | 1025.8 | 1033.5 | 1025.2 | 997.3 | 1020.3 | 1155.9 | 1266.2 | " | " | " | 1073.1 |
| 8. | Non-food crops | 1707.4 | 1729.4 | 1687.0 | 1692.8 | 1637.0 | 1636.2 | 1573.4 | 1632.6 | 1670.2 | " | " | " | 1662.9 |
| 9. | All Crops | 1403.2 | 1433.2 | 1434.5 | 1447.6 | 1462.2 | 1452.7 | 1411.8 | 1444.6 | 1588.1 | " | " | " | 1453.1 |

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

* Average from January to September (9 months) only.

APPENDIX - 3.2

MONTH-END AVERAGE RETAIL PRICES OF ESSENTIAL COMMODITIES 1994

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 |
| 1. | Rice O.M. | Kg. | 7.43 | 7.65 | 7.54 | 7.56 | 7.84 | 8.17 | 8.16 | 8.44 | 8.63 | NA | NA | NA |
| 2. | White Rice | Kg. | 7.18 | 7.27 | 7.24 | 7.27 | 7.44 | 7.64 | 7.77 | 7.80 | 7.96 | " | " | " |
| 3. | Green gram | Kg. | 16.07 | 16.12 | 16.33 | 17.06 | 17.78 | 17.73 | 17.01 | 16.77 | 16.61 | " | " | " |
| 4. | Blackgram split without husk. | Kg. | 14.04 | 13.99 | 15.33 | 19.34 | 19.97 | 19.96 | 20.51 | 20.96 | 21.10 | " | " | " |
| 5. | Redgram | Kg. | 13.94 | 13.51 | 12.76 | 12.92 | 13.21 | 13.38 | 13.65 | 13.85 | 13.72 | " | " | " |
| 6. | Dhall | Kg. | 21.07 | 20.61 | 19.97 | 19.90 | 20.06 | 19.98 | 20.17 | 20.62 | 21.02 | " | " | " |
| 7. | Sugar (O.M.) | Kg. | 13.53 | 13.81 | 13.83 | 14.96 | 15.62 | 15.29 | 14.12 | 13.59 | 13.47 | " | " | " |
| 8. | Milk (Cow's) | Ltr. | 7.89 | 8.46 | 8.54 | 8.61 | 8.68 | 8.75 | 8.82 | 8.82 | 8.82 | " | " | " |
| 9. | Tea (Kannan Devan) | ½ kg. | 34.70 | 34.70 | 34.70 | 34.75 | 34.75 | 34.75 | 34.75 | 34.75 | 34.75 | " | " | " |
| 10. | Coffee Powder (Brooke bond Green label) | ½ Kg | 31.95 | 32.68 | 32.91 | 33.21 | 33.29 | 33.34 | 36.73 | 46.79 | 52.47 | " | " | " |
| 11. | Baby Food (Amul) | Kg. | 82.00 | 82.00 | 82.00 | 82.00 | 82.00 | 82.00 | 82.00 | 82.00 | 82.31 | " | " | " |
| 12. | Egg (Hen's) | Doz. | 13.88 | 13.91 | 12.89 | 11.07 | 12.38 | 14.07 | 13.88 | 12.53 | 12.76 | " | " | " |

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| | | | | | | | | | | | | | |
|---------------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|
| 13. Mutton (with bones) | Kg. | 63.71 | 64.82 | 65.71 | 66.35 | 67.68 | 69.50 | 70.16 | 70.79 | 70.87 | NA | NA | NA |
| 14. Coconut oil | Kg. | 36.09 | 36.48 | 34.84 | 35.79 | 34.12 | 35.66 | 34.91 | 36.00 | 36.61 | " | " | " |
| 15. Groundnut oil | Kg. | 38.69 | 38.52 | 38.38 | 38.85 | 39.12 | 39.81 | 41.79 | 42.65 | 43.57 | " | " | " |
| 16. Refined oil (Postman) | Ltr. | 58.69 | 57.23 | 56.38 | 56.34 | 56.66 | 57.56 | 58.46 | 58.42 | 58.04 | " | " | " |
| 17. Gingelly oil | Kg. | 40.25 | 40.13 | 40.69 | 41.53 | 41.48 | 41.36 | 40.70 | 40.79 | 40.86 | " | " | " |
| 18. Coconut(without husk) | 100 Nos. | 345.44 | 346.87 | 345.17 | 349.02 | 337.23 | 341.34 | 333.04 | 339.91 | 341.16 | " | " | " |
| 19. Corriander | Kg. | 19.15 | 18.89 | 18.72 | 18.70 | 19.09 | 19.10 | 19.17 | 19.53 | 19.83 | " | " | " |
| 20. Chillies(Dry) | Kg. | 24.89 | 24.67 | 25.62 | 29.65 | 27.80 | 26.61 | 26.86 | 30.02 | 31.80 | " | " | " |
| 21. Onion (Small) | Kg. | 8.64 | 7.15 | 7.23 | 8.30 | 9.14 | 9.48 | 6.42 | 5.38 | 5.97 | " | " | " |
| 22. Tamarind | Kg. | 16.83 | 15.71 | 15.78 | 15.65 | 15.58 | 15.72 | 16.09 | 16.34 | 16.23 | " | " | " |
| 23. Chenai | Kg. | 4.81 | 5.05 | 5.23 | 5.53 | 5.91 | 6.00 | 5.66 | 5.49 | 5.05 | " | " | " |
| 24. Tapioca (Raw) | Kg. | 2.82 | 2.79 | 2.82 | 2.80 | 2.75 | 2.75 | 2.76 | 2.80 | 2.95 | " | " | " |
| 25. Potato | Kg. | 6.99 | 5.33 | 4.64 | 4.41 | 5.26 | 5.43 | 5.20 | 5.14 | 4.98 | " | " | " |
| 26. Colocassia | Kg. | 5.54 | 5.68 | 5.66 | 6.07 | 6.22 | 6.63 | 7.34 | 7.67 | 7.50 | " | " | " |
| 27. Onion (big) | Kg. | 9.43 | 5.93 | 4.64 | 3.86 | 3.58 | 3.77 | 4.27 | 4.71 | 5.67 | " | " | " |
| 28. Brinjal | Kg. | 7.51 | 7.41 | 7.42 | 6.87 | 6.43 | 6.22 | 6.02 | 6.26 | 6.31 | " | " | " |
| 29. Pumpkin | Kg. | 4.43 | 4.23 | 3.90 | 3.96 | 4.22 | 4.44 | 4.37 | 4.41 | 4.23 | " | " | " |
| 30. Cucumber | Kg. | 5.59 | 4.87 | 4.84 | 4.92 | 4.90 | 5.22 | 4.90 | 5.14 | 5.19 | " | " | " |

| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10 | 11 | 12 | 13 | 14 | 15 |
|-----|------------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|
| 31. | Ladies finger | Kg. | 7.76 | 6.36 | 5.31 | 5.99 | 6.29 | 6.89 | 5.96 | 5.97 | 6.11 | NA | NA | NA |
| 32. | Cabbage | Kg. | 5.49 | 5.34 | 5.05 | 4.93 | 5.25 | 5.30 | 4.98 | 5.80 | 5.99 | NA | NA | NA |
| 33. | Bittergourd | Kg. | 11.01 | 10.21 | 10.22 | 10.45 | 11.39 | 13.23 | 12.00 | 12.73 | 10.92 | NA | NA | NA |
| 34. | Ashgourd | Kg. | 4.64 | 4.87 | 4.34 | 4.17 | 4.17 | 4.53 | 4.40 | 4.56 | 4.37 | NA | NA | NA |
| 35. | Snakegourd | Kg. | 6.58 | 5.77 | 5.33 | 5.66 | 5.68 | 6.61 | 6.25 | 6.66 | 6.73 | NA | NA | NA |
| 36. | Chillies (Green) | Kg. | 10.65 | 10.50 | 10.15 | 10.63 | 9.82 | 14.71 | 11.13 | 13.14 | 11.10 | NA | NA | NA |
| 37. | Banana (Green) | Kg. | 7.37 | 8.10 | 8.80 | 8.31 | 9.94 | 9.42 | 9.89 | 9.79 | 11.15 | NA | NA | NA |
| 38. | Plantain (Green) | Kg. | 5.05 | 5.12 | 5.11 | 4.96 | 4.95 | 4.98 | 5.05 | 5.12 | 4.16 | NA | NA | NA |
| 39. | Tobacco | Kg. | 29.25 | 29.12 | 29.75 | 30.07 | 30.37 | 30.75 | 30.88 | 30.52 | 30.27 | NA | NA | NA |
| 40. | Mundu (Mull) | Each | 34.48 | 34.47 | 34.74 | 34.82 | 35.49 | 35.67 | 36.22 | 36.54 | 36.57 | NA | NA | NA |
| 41. | Washing Soda | Kg. | 11.35 | 11.36 | 11.35 | 11.36 | 11.38 | 11.47 | 11.70 | 11.70 | 11.82 | NA | NA | NA |
| 42. | Washing Soap | 501½ bar | 5.30 | 5.30 | 5.30 | 5.30 | 5.35 | 5.46 | 5.42 | 5.14 | 5.23 | NA | NA | NA |
| 43. | Toilet Soap (Lux) | Each | 5.75 | 5.83 | 5.92 | 5.96 | 5.98 | 5.98 | 5.99 | 6.00 | 6.00 | NA | NA | NA |
| 44. | Tooth paste 100gm. tube Colgate | Each | 14.26 | 14.92 | 15.08 | 15.17 | 15.17 | 15.25 | 15.25 | 15.25 | 15.25 | NA | NA | NA |
| 45. | Razor Blade | 5 Nos. | 4.64 | 4.63 | 4.63 | 4.66 | 4.68 | 4.68 | 4.68 | 4.68 | 4.68 | NA | NA | NA |
| 46. | Crocin | 2 Tabs | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | NA | NA | NA |
| 47. | Electric Bulb (Philips) | Each | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.53 | 9.58 | 9.58 | NA | NA | NA |
| | Torch Battery Eveready 950 | Each | 5.70 | 5.70 | 5.73 | 5.80 | 5.85 | 5.86 | 5.88 | 5.90 | 5.90 | NA | NA | NA |

| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10 | 11 | 12 | 13 | 14 | 15 |
|-----|-----------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|
| 49. | Paper | 24 Sheets | 5.36 | 5.36 | 5.36 | 5.39 | 5.41 | 5.49 | 5.68 | 5.68 | 5.68 | NA | NA | NA |
| 50. | Firewood (local Spit) | Qtl. | 84.38 | 84.38 | 84.38 | 85.18 | 85.63 | 85.63 | 85.63 | 85.63 | 85.63 | " | " | " |
| 51. | Cement (ordinary bag) | Each | 126.64 | 126.56 | 126.57 | 126.74 | 130.07 | 134.60 | 139.76 | 140.84 | 141.12 | " | " | " |

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 1994

(Base 1970 = 100)

| Sl. No. | Centre | Cost of Living Index - 1994 | | | | | | | | | | | |
|---------|--------------------|-----------------------------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|
| | | 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 | 622 | 635 | 641 | 650 | 658 | 667 | 680 | 691 | 699 | 698 | 710 | NA |
| 2. | Kollam | 637 | 652 | 657 | 666 | 673 | 683 | 696 | 705 | 713 | 715 | 721 | " |
| 3. | Punalur | 601 | 616 | 621 | 628 | 633 | 640 | 650 | 652 | 652 | 656 | 661 | " |
| 4. | Alappuzha | 625 | 640 | 646 | 654 | 661 | 671 | 683 | 693 | 700 | 706 | 713 | " |
| 5. | Kottayam | 626 | 641 | 647 | 655 | 662 | 672 | 684 | 695 | 702 | 700 | 709 | " |
| 6. | Mundakkayam | 626 | 641 | 647 | 654 | 660 | 670 | 683 | 692 | 698 | 703 | 711 | " |
| 7. | Munnar | 617 | 633 | 640 | 649 | 657 | 668 | 678 | 685 | 685 | 690 | 697 | " |
| 8. | Ernakulam | 618 | 630 | 636 | 643 | 650 | 660 | 670 | 674 | 676 | 674 | 679 | " |
| 9. | Chalakydy | 636 | 649 | 655 | 664 | 671 | 682 | 694 | 703 | 711 | 717 | 726 | " |
| 10. | Thrissur | 614 | 629 | 637 | 645 | 652 | 663 | 674 | 683 | 692 | 698 | 708 | " |
| 11. | Palakkad | 621 | 636 | 642 | 651 | 658 | 670 | 682 | 692 | 700 | 705 | 716 | " |
| 12. | Malappuram | 641 | 658 | 665 | 673 | 680 | 691 | 703 | 713 | 721 | 727 | 734 | " |
| 13. | Kozhikode | 621 | 635 | 639 | 648 | 654 | 664 | 675 | 683 | 691 | 697 | 701 | " |
| 14. | Meppady | 637 | 652 | 659 | 668 | 676 | 689 | 702 | 713 | 721 | 732 | 737 | " |
| 15. | Kannur | 628 | 643 | 649 | 657 | 664 | 675 | 686 | 696 | 704 | 711 | 720 | " |

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

INDEX NUMBERS OF WHOLESALE PRICES IN INDIA BY GROUPS AND SUB GROUPS (Averages)

Base: 1981 - 82 = 100

| Item | Weight | 1993 | | | | | 1994 | | | | | | | |
|---------------------------|--------|--------|-----------|---------|----------|----------|---------|----------|-------|--------|-------|------|------|--------|
| | | August | September | October | November | December | January | February | March | April* | May* | June | July | August |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| All Commodities | 100.00 | 247.00 | 250.9 | 252.2 | 251.6 | 251.7 | 252.7 | 254.8 | 257.6 | 260.1 | 263.2 | NA | NA | NA |
| I. Primary Articles | 32.295 | 252.8 | 256.1 | 258.9 | 257.1 | 256.5 | 255.2 | 255.8 | 258.3 | 263.5 | 268.5 | " | " | " |
| 1. Food Articles | 17.386 | 290.1 | 293.9 | 295.3 | 293.0 | 288.6 | 282.4 | 282.4 | 280.9 | 286.5 | 294.1 | " | " | " |
| i. Food Grains | 7.917 | 255.2 | 263.3 | 267.5 | 270.1 | 271.2 | 270.6 | 282.0 | 281.0 | 274.1 | 275.0 | " | " | " |
| (a) Cereals | 6.824 | 249.8 | 256.1 | 259.0 | 259.9 | 259.2 | 257.3 | 270.1 | 272.0 | 264.9 | 265.8 | " | " | " |
| (b) Pulses | 1.093 | 288.8 | 308.0 | 320.7 | 334.3 | 346.0 | 354.1 | 356.3 | 337.3 | 331.1 | 331.1 | " | " | " |
| ii. Fruits and Vegetables | 4.089 | 302.9 | 304.6 | 306.3 | 293.3 | 278.3 | 257.8 | 243.1 | 243.4 | 271.7 | 281.4 | " | " | " |
| iii. Milk | 1.961 | 285.8 | 280.5 | 281.1 | 284.6 | 280.5 | 273.6 | 277.7 | 279.8 | 287.2 | 305.0 | " | " | " |
| iv. Egg, Fish & Meat | 1.783 | 294.3 | 293.7 | 298.8 | 300.1 | 302.4 | 301.8 | 312.9 | 326.4 | 321.1 | 329.1 | " | " | " |
| v. Condiments & spices | 0.947 | 493.0 | 495.9 | 469.2 | 447.0 | 414.0 | 405.3 | 373.3 | 369.4 | 368.4 | 414.1 | " | " | " |
| vi. Other Food Articles | 0.689 | 339.2 | 342.6 | 341.8 | 348.0 | 365.2 | 370.0 | 330.2 | 266.9 | 314.2 | 303.3 | " | " | " |
| 2. Non-Food Articles | 10.081 | 244.5 | 248.8 | 255.1 | 253.4 | 258.6 | 263.2 | 265.9 | 276.9 | 283.9 | 286.8 | " | " | " |
| i. Fibres | 1.791 | 230.9 | 235.6 | 229.7 | 239.9 | 260.3 | 284.0 | 312.5 | 363.3 | 383.5 | 375.6 | " | " | " |
| ii. Oil seeds | 3.861 | 234.4 | 243.9 | 244.5 | 234.5 | 234.5 | 231.5 | 224.8 | 229.1 | 240.1 | 249.2 | " | " | " |

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|
| iii. Other Non-food Articles | 4.429 | 258.8 | 258.6 | 274.5 | 275.4 | 278.8 | 282.5 | 282.9 | 283.6 | 281.8 | 283.5 | NA | NA | NA | |
| 3. Minerals | 4.828 | 135.7 | 135.7 | 135.7 | 135.6 | 136.6 | 140.6 | 138.6 | 138.1 | 138.0 | 138.0 | " | " | " | |
| II.i Petroleum Crude & Natural gas | 4.274 | 123.3 | 123.3 | 123.3 | 123.3 | 123.3 | 126.7 | 124.6 | 124.0 | 123.8 | 123.8 | " | " | " | |
| ii. Fuel, Power, light & Lubricants | 10.663 | 254.3 | 263.4 | 265.8 | 265.8 | 267.3 | 268.9 | 277.0 | 278.0 | 278.0 | 278.0 | " | " | " | |
| III. Manufactured Products | 57.042 | 242.4 | 245.5 | 245.8 | 245.8 | 246.1 | 248.2 | 250.0 | 253.5 | 254.9 | 257.4 | " | " | " | |
| I. Food products | 10.143 | 251.9 | 257.5 | 255.3 | 251.4 | 246.8 | 246.2 | 249.3 | 251.3 | 255.6 | 265.8 | " | " | " | |
| i. Dairy Products | 0.642 | 249.8 | 254.6 | 258.2 | 257.4 | 253.8 | 255.7 | 257.1 | 257.9 | 255.9 | 262.2 | " | " | " | |
| ii. Sugar, Khandsari & gur | 4.059 | 249.1 | 254.9 | 250.2 | 240.6 | 230.2 | 232.3 | 236.9 | 240.8 | 245.9 | 268.0 | " | " | " | |
| 2. Beverages, Tobacco & Tobacco products | 2.149 | 306.0 | 307.6 | 307.8 | 307.8 | 308.6 | 309.4 | 313.0 | 317.3 | 316.8 | 319.4 | " | " | " | |
| 3. Textiles | 11.545 | 216.4 | 218.7 | 218.9 | 220.4 | 222.2 | 229.0 | 231.5 | 241.3 | 245.4 | 245.6 | " | " | " | |
| 4. Pepper & Pepper Products | 1.988 | 326.9 | 327.5 | 327.7 | 327.8 | 327.9 | 331.6 | 333.9 | 334.5 | 333.8 | 334.2 | " | " | " | |
| 5. Leather & Leather Products | 1.018 | 246.5 | 248.7 | 249.6 | 249.8 | 250.4 | 251.3 | 251.3 | 252.0 | 251.3 | 252.9 | " | " | " | |
| 6. Rubber & Plastic Products | 1.592 | 189.6 | 189.7 | 189.8 | 190.3 | 190.6 | 190.9 | 190.9 | 190.9 | 190.9 | 190.9 | " | " | " | |

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|
| 7. Chemical & Chemical products | 7.355 | 207.9 | 208.8 | 208.7 | 209.4 | 209.8 | 209.9 | 211.1 | 215.9 | 215.9 | 216.7 | NA | NA | NA | |
| i. Fertilisers | 1.748 | 181.8 | 181.9 | 181.8 | 181.8 | 181.8 | 181.8 | 181.8 | 181.3 | 181.8 | 180.8 | " | " | " | |
| ii. Pesticides | 0.202 | 209.1 | 208.1 | 209.1 | 209.1 | 209.1 | 209.1 | 209.1 | 309.4 | 289.3 | 309.3 | " | " | " | |
| iii. Drugs and Medicines | 1.085 | 183.8 | 186.8 | 187.4 | 188.2 | 192.3 | 192.8 | 190.4 | 194.1 | 194.5 | 199.1 | " | " | " | |
| 8. Non-Metallic Mineral Products | 2.477 | 255.1 | 254.5 | 260.5 | 261.5 | 261.9 | 260.5 | 262.3 | 263.1 | 266.4 | 269.9 | " | " | " | |
| 9. Basis Metals, Alloys and Metal Products | 7.632 | 276.0 | 278.5 | 279.2 | 279.9 | 281.9 | 284.0 | 285.4 | 285.9 | 286.0 | 286.6 | " | " | " | |
| 10. Machinery and Machine tools | 6.268 | 234.8 | 235.8 | 238.2 | 239.0 | 241.0 | 241.9 | 242.6 | 244.3 | 241.7 | 242.9 | " | " | " | |
| i. Motor Vehicles, Scooters, Bicycles and Parts. | 2.431 | 214.6 | 216.5 | 217.9 | 218.5 | 218.8 | 219.8 | 220.7 | 221.5 | 221.5 | 221.9 | " | " | " | |
| ii. Other Miscellaneous Manufacturing Industries | 0.972 | 142.1 | 142.3 | 142.3 | 142.3 | 147.8 | 164.1 | 165.1 | 165.6 | 165.5 | 165.5 | " | " | " | |

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Source: RBI Bulletin

* Provisional

APPENDIX - 3.5

CONSUMER PRICE INDEX NUMBERS FOR INDUSTRIAL WORKERS - ALL INDIA AND SELECTED CENTRES (1982 = 100)

| | 1993 | | | | | | 1994 | | | | | | |
|------------|------|--------|-------|------|------|------|------|------|-------|-------|-----|------|------|
| | July | August | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | March | April | May | June | July |
| All India | 253 | 256 | 259 | 262 | 265 | 264 | 263 | 265 | 267 | 269 | 272 | 277 | 281 |
| Ahmedabad | 250 | 256 | 260 | 264 | 266 | 267 | 265 | 266 | 266 | 272 | 273 | 280 | 283 |
| Aluva | 248 | 244 | 247 | 244 | 250 | 250 | 255 | 260 | 258 | 265 | 271 | 275 | 277 |
| Bangalore | 249 | 250 | 251 | 252 | 257 | 257 | 258 | 261 | 261 | 262 | 263 | 269 | 275 |
| Bombay | 276 | 276 | 279 | 277 | 283 | 281 | 281 | 291 | 295 | 299 | 306 | 309 | 312 |
| Calcutta | 259 | 262 | 268 | 276 | 274 | 269 | 263 | 264 | 267 | 270 | 273 | 280 | 284 |
| Coimbatore | 246 | 246 | 248 | 248 | 252 | 257 | 259 | 261 | 263 | 262 | 266 | 267 | 273 |
| Delhi | 276 | 278 | 280 | 283 | 284 | 278 | 278 | 282 | 284 | 286 | 290 | 295 | 302 |
| Hyderabad | 238 | 240 | 241 | 244 | 246 | 244 | 244 | 246 | 251 | 255 | 258 | 260 | 260 |
| Jamshedpur | 238 | 240 | 245 | 250 | 257 | 254 | 248 | 248 | 250 | 250 | 252 | 256 | 264 |
| Madras | 258 | 260 | 262 | 264 | 271 | 274 | 274 | 276 | 275 | 278 | 282 | 283 | 285 |
| Madhura | 252 | 254 | 256 | 263 | 273 | 279 | 277 | 273 | 268 | 270 | 272 | 277 | 279 |
| Mundakayam | 254 | 250 | 248 | 248 | 253 | 256 | 259 | 265 | 264 | 267 | 272 | 281 | 284 |
| Nagpur | 270 | 273 | 272 | 276 | 280 | 280 | 280 | 279 | 281 | 283 | 286 | 292 | 295 |

APPENDIX - 3.6

CONSUMER PRICE INDEX NUMBER FOR AGRICULTURAL LABOURERS - STATE WISE
(JULY 1960 - JUNE 1961 = 100)

| | 1993 | | | | | | 1994 | | | | | | |
|-----------------|------|--------|-------|------|------|------|------|------|-------|-------|------|------|------|
| | July | August | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | March | April | May | June | July |
| All India | 1068 | 1088 | 1113 | 1134 | 1156 | 1166 | 1166 | 1166 | 1175 | 1165 | 1175 | 1189 | 1211 |
| Andhra Pradesh | 922 | 957 | 938 | 944 | 959 | 962 | 968 | 941 | 937 | 942 | 971 | 976 | 996 |
| Assam # | 1129 | 1167 | 1173 | 1199 | 1211 | 1234 | 1219 | 1205 | 1222 | 1230 | 1243 | 1237 | 1262 |
| Bihar | 1121 | 1141 | 1180 | 1214 | 1248 | 1250 | 1227 | 1230 | 1259 | 1230 | 1223 | 1232 | 1244 |
| Gujarat | 972 | 1006 | 1011 | 1012 | 1046 | 1049 | 1057 | 1048 | 1080 | 1074 | 1090 | 1104 | 1107 |
| Jammu & Kashmir | 1116 | 1116 | 1145 | 1166 | 1194 | 1225 | 1204 | 1179 | 1168 | 1163 | 1206 | 1212 | 1238 |
| Karnataka | 1065 | 1071 | 1069 | 1064 | 1089 | 1103 | 1146 | 1111 | 1120 | 1136 | 1142 | 1148 | 1154 |
| Kerala | 1245 | 1267 | 1269 | 1262 | 1268 | 1288 | 1272 | 1347 | 1372 | 1368 | 1406 | 1430 | 1452 |
| Madhyapradesh | 1089 | 1100 | 1123 | 1141 | 1171 | 1196 | 1216 | 1217 | 1202 | 1201 | 1207 | 1221 | 1258 |
| Maharashtra | 996 | 1021 | 1014 | 1017 | 1041 | 1071 | 1096 | 1088 | 1074 | 1094 | 1138 | 1155 | 1168 |
| Orissa | 1100 | 1122 | 1154 | 1167 | 1188 | 1164 | 1135 | 1105 | 1129 | 1142 | 1179 | 1197 | 1248 |
| Punjab ## | 1186 | 1214 | 1278 | 1312 | 1326 | 1350 | 1358 | 1352 | 1347 | 1310 | 1305 | 1320 | 1360 |
| Rajasthan | 1064 | 1097 | 1176 | 1209 | 1218 | 1276 | 1290 | 1330 | 1307 | 1237 | 1288 | 1327 | 1354 |
| Tamil Nadu | 1018 | 1015 | 1014 | 1020 | 1037 | 1069 | 1080 | 1097 | 1089 | 1093 | 1109 | 1131 | 1135 |
| Uttar Pradesh | 1148 | 1164 | 1269 | 1317 | 1331 | 1351 | 1353 | 1389 | 1412 | 1342 | 1311 | 1343 | 1383 |
| Bengal | 1042 | 1067 | 1093 | 1138 | 1163 | 1124 | 1092 | 1088 | 1104 | 1118 | 1128 | 1125 | 1154 |

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Source: RBI Bulletin

Including Manipur, Meghalaya and Tripura

Including Delhi, Haryana and Himachal Pradesh

APPENDIX - 3.7

CONSUMER PRICE INDEX NUMBERS FOR URBAN AND NON-MANUAL EMPLOYEES - ALL INDIA & SELECTED CENTRES

(Base 1984-85 = 100)

| | 1993 | | | | | | 1994 | | | | | |
|------------|------|--------|-------|------|------|------|------|------|-------|-------|-----|------|
| | July | August | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | March | April | May | June |
| All India | 213 | 215 | 217 | 218 | 220 | 221 | 221 | 222 | 222 | 224 | 227 | 230 |
| Bombay | 216 | 217 | 217 | 220 | 223 | 223 | 223 | 224 | 225 | 229 | 231 | 234 |
| Delhi | 210 | 211 | 214 | 215 | 215 | 214 | 215 | 216 | 214 | 216 | 217 | 221 |
| Calcutta | 212 | 213 | 215 | 216 | 216 | 212 | 209 | 215 | 214 | 217 | 221 | 224 |
| Madras | 226 | 228 | 230 | 232 | 237 | 240 | 244 | 244 | 243 | 244 | 247 | 250 |
| Hyderabad | 218 | 220 | 221 | 222 | 226 | 226 | 225 | 225 | 226 | 229 | 232 | 234 |
| Bangalore | 213 | 213 | 214 | 217 | 219 | 220 | 222 | 223 | 223 | 225 | 227 | 229 |
| Lucknow | 204 | 205 | 206 | 210 | 210 | 209 | 211 | 212 | 212 | 214 | 216 | 220 |
| Ahemdabad | 193 | 196 | 200 | 202 | 203 | 203 | 204 | 204 | 204 | 205 | 208 | 210 |
| Jaipur | 221 | 222 | 224 | 225 | 225 | 224 | 228 | 229 | 230 | 231 | 234 | 236 |
| Patna | 221 | 223 | 231 | 234 | 234 | 235 | 237 | 235 | 235 | 233 | 233 | 235 |
| Sri Nagar | 150 | 150 | 130 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| Trivandrum | 204 | 203 | 205 | 204 | 206 | 208 | 210 | 215 | 214 | 218 | 221 | 223 |
| Cuttak | 206 | 209 | 210 | 212 | 216 | 215 | 216 | 212 | 214 | 216 | 218 | 220 |
| Bhopal | 228 | 229 | 227 | 229 | 232 | 232 | 233 | 232 | 231 | 231 | 232 | 237 |
| Chandigar | 235 | 236 | 238 | 239 | 239 | 238 | 243 | 243 | 244 | 246 | 248 | 251 |
| Shillong | 239 | 233 | 235 | 235 | 235 | 237 | 240 | 238 | 239 | 245 | 244 | 246 |

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APPENDIX - 3.8

WHOLE SALE PRICE INDEX OF AGRICULTURAL COMMODITIES 1981 - 1994

(Base 1952 - 53 = 100)

| Group | Weight | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 * |
|--------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| A. Food Crops | 63.5 | 417 | 413 | 499 | 497 | 582 | 679 | 709 | 696 | 725 | 835 | 936 | 984 | 1310 | 1333 |
| Rice | 40.4 | 319 | 319 | 406 | 442 | 448 | 501 | 529 | 533 | 544 | 592 | 638 | 638 | 837 | 889 |
| Condiments and Spices | 10.4 | 442 | 439 | 548 | 854 | 637 | 1324 | 1435 | 775 | 754 | 1098 | 1542 | 1688 | 1895 | 1778 |
| Fruits and Vegetables | 10.7 | 728 | 740 | 779 | 913 | 1008 | 759 | 858 | 1199 | 1342 | 1450 | 1449 | 1571 | 2434 | 2486 |
| Mollasses | 2.0 | 606 | 412 | 626 | 629 | 709 | 689 | 626 | 881 | 909 | 1082 | 1061 | 1161 | 1803 | 1781 |
| B. Non-Food Crops | 36.5 | 680 | 672 | 930 | 1477 | 966 | 1009 | 1324 | 1428 | 1215 | 1365 | 1832 | 2662 | 1966 | 1663 |
| Oil Seeds | 25.5 | 819 | 796 | 1112 | 1863 | 1142 | 1227 | 1650 | 1795 | 1411 | 1562 | 2240 | 2543 | 2368 | 1918 |
| Plantation Crops | 11.0 | 358 | 386 | 508 | 585 | 560 | 509 | 568 | 578 | 761 | 910 | 888 | 948 | 1038 | 1073 |
| C. All Crops | 100.00 | 513 | 507 | 656 | 918 | 722 | 800 | 933 | 963 | 904 | 1028 | 1263 | 1377 | 1550 | 1453 |

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

* Average from January to September (9 months) only.

APPENDIX 4.1

**DISTRICT WISE NUMBER & AREA OF TOTAL OPERATIONAL HOLDINGS
1990 - 91**

| Sl. No. | District | Number | % to Total | Area (ha.) | % to Total | Average Size Holdings (ha) |
|--------------------|----------------|----------------|---------------|----------------|---------------|----------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1. | Trivandrum | 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. | Trissur | 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 Total | | 5419189 | 100.00 | 1801823 | 100.00 | 0.31 |

Source: Agricultural Census 1990-91, Directorate of Economics & Statistics.

APPENDIX 4.2

NUMBER OF OPERATIONAL HOLDINGS AND AREA OPERATED BY SIZE CLASS 1990 - 91

STATE : KERALA

| Size of holding (hect.) | Number of Operational Holdings | | | | Area Operated (hect.) | | |
|-------------------------|--------------------------------|-------------|---------------|----------------|-----------------------|-------------|---------------|
| | individuals | Joint | Institutional | Total | Individual | Joint | Institutional |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1. Below 0.02 | 630075 | 70 | 4979 | 635124 | 8233 | | 67 |
| 2. 0.02-0.50 | 3877167 | 2301 | 34814 | 3914282 | 529603 | 463 | 5033 |
| 3. 0.50-1.00 | 460215 | 482 | 5976 | 466673 | 331649 | 332 | 4094 |
| Marginal (1+2+3) | 4967457 | 2853 | 45769 | 5016079 | 869483 | 795 | 9194 |
| 4. 1.00-2.00 | 276756 | 469 | 3675 | 280900 | 375791 | 648 | 4798 |
| Small (4) | 276756 | 469 | 3675 | 280900 | 375791 | 648 | 4998 |
| 5. 2.00-3.00 | 74109 | 171 | 1382 | 75662 | 175541 | 444 | 3144 |
| 6. 3.00-4.00 | 21402 | 138 | 496 | 22036 | 72570 | 416 | 1682 |
| Semi-medium (5+6) | 95511 | 309 | 1878 | 97698 | 248111 | 860 | 4826 |
| 7. 4.00-5.00 | 11687 | 86 | 456 | 12229 | 50809 | 420 | 1980 |
| 8. 5.00-7.50 | 6680 | 45 | 357 | 7082 | 39388 | 296 | 2196 |
| 9. 7.50-10.00 | 1894 | 15 | 164 | 2073 | 16103 | 122 | 1441 |
| Medium (7+8+9) | 20261 | 146 | 977 | 21384 | 106300 | 838 | 5617 |
| 10. 10.00-20.00 | 1596 | 30 | 197 | 1823 | 19997 | 401 | 2688 |
| 11. 20 and above | 741 | 20 | 544 | 1305 | 29807 | 561 | 120908 |
| Large (10+11) | 2337 | 50 | 741 | 3128 | 49804 | 962 | 123596 |
| All sizes | 5362322 | 3827 | 53040 | 5419189 | 1649489 | 4103 | 148231 |

Source: Agricultural Census 1990-91
Directorate of Economics and Statistics.
Figures are provisional

APPENDIX 4.3

PERCENTAGE DISTRIBUTION OF MAIN WORKERS AS
 CULTIVATORS, AGRICULTURAL LABOURERS, HOUSEHOLD INDUSTRY WORKERS AND OTHER WORKERS, 1981 - 1991

| Persons Males Females | Cultivators | | Agricultural Labourers | | Household Industry Workers | | Other workers | |
|-----------------------------|-------------|-------|------------------------|-------|----------------------------|------|---------------|-------|
| | 1981 | 1991 | 1981 | 1991 | 1981 | 1991 | 1981 | 1991 |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 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 |
| 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 |

Census 1991

APPENDIX 4.4

DISTRICTWISE AREA, PRODUCTION AND PRODUCTIVITY OF RICE IN KERALA (AREA IN HA. PRODUCTION IN TONNES
 AND PRODUCTIVITY IN kg./ha)

| District | Area | | | Production | | | Productivity | | |
|----------------|---------|---------|---------|------------|---------|---------|--------------|---------|---------|
| | 1991-92 | 1992-93 | 1993-94 | 1991-92 | 1992-93 | 1993-94 | 1991-92 | 1992-93 | 1993-94 |
| (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Trivandrum | 19604 | 18361 | 18103 | 33553 | 34816 | 31920 | 1712 | 1896 | 1763 |
| Kollam | 27619 | 28460 | 27375 | 46086 | 54576 | 51713 | 1669 | 1918 | 1889 |
| Pathanamthitta | 13153 | 12892 | 12191 | 30517 | 33826 | 29852 | 2320 | 2624 | 2449 |
| Nappuzha | 55872 | 53344 | 53581 | 116089 | 123178 | 119186 | 2078 | 2309 | 2224 |
| Kottayam | 23855 | 25448 | 26196 | 55166 | 60798 | 64654 | 2313 | 2389 | 2468 |
| Dukki | 4851 | 4397 | 3648 | 10932 | 9188 | 7651 | 2254 | 2090 | 2097 |
| Ernakulam | 65001 | 66158 | 65887 | 109484 | 113927 | 113052 | 1684 | 1722 | 1716 |
| Trissur | 69065 | 67151 | 67708 | 121723 | 119337 | 120833 | 1762 | 1777 | 1785 |
| Palakkad | 147066 | 146095 | 143169 | 344738 | 335646 | 334611 | 2344 | 2297 | 2337 |
| Malappuram | 50361 | 50908 | 49244 | 80346 | 82132 | 84640 | 1595 | 1613 | 1719 |
| Kozhikode | 11535 | 10755 | 10162 | 13781 | 13008 | 12685 | 1195 | 1209 | 1248 |
| Wayanad | 19582 | 21135 | 20946 | 42803 | 50337 | 46609 | 2186 | 2382 | 2225 |
| Kannur | 20333 | 18334 | 18149 | 31249 | 28750 | 29085 | 1537 | 1568 | 1602 |
| Idukki | 13430 | 14170 | 13973 | 23883 | 25359 | 26018 | 1778 | 1790 | 1862 |
| Kerala State | 541327 | 537608 | 530332 | 1060350 | 1084878 | 1072509 | 1959 | 2018 | 2022 |

for 93-94 are provisional

Directorate of Economics and Statistics.

APPENDIX 4.5
DISTRICT-WISE AREA, PRODUCTION AND PRODUCTIVITY OF HYV OF RICE IN KERALA 1983 - 84 *

| Sl. No. | District | Virippu | | | Mundakan | | | Punja | | | Total | | |
|---------|--------------------|------------|---------------------|-----------------------|------------|----------------|-----------------------|------------|----------------|-----------------------|------------|----------------|-----------------------|
| | | Area (Ha.) | Production (Tonnes) | Productivity (Kg/ha.) | Area (Ha.) | Production (T) | Productivity (Kg/ha.) | Area (Ha.) | Production (T) | Productivity (Kg/ha.) | Area (Ha.) | Production (T) | Productivity (Kg/ha.) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| 1. | Thiruvananthapuram | 4847 | 9880 | 2038 | 3014 | 4949 | 1642 | 43 | 47 | 1093 | 7904 | 7904 | 1882 |
| 2. | Kollam | 11165 | 22565 | 2021 | 2230 | 4702 | 2109 | 55 | 46 | 836 | 13450 | 27313 | 2031 |
| 3. | Pathanamthitta | 2331 | 4614 | 1979 | 2032 | 4912 | 2417 | 3560 | 11152 | 3133 | 7923 | 20678 | 2610 |
| 4. | Alappuzha | 13326 | 28675 | 2152 | 12336 | 30275 | 2454 | 14067 | 35149 | 2499 | 39729 | 94099 | 2369 |
| 5. | Kottayam | 4245 | 8306 | 1957 | 8781 | 21561 | 2455 | 9567 | 25948 | 2702 | 22593 | 55715 | 2486 |
| 6. | Idukki | 208 | 478 | 2298 | 366 | 726 | 1984 | -- | -- | -- | 574 | 1204 | 2098 |
| 7. | Ernakulam | 12263 | 21897 | 1786 | 4342 | 8062 | 1857 | 6492 | 9463 | 1458 | 23097 | 39422 | 1707 |
| 8. | Thrissur | 4271 | 6932 | 1623 | 4546 | 9417 | 2071 | 7043 | 16227 | 2304 | 15860 | 32576 | 2053 |
| 9. | Palakkad | 6019 | 13628 | 2248 | 2092 | 4083 | 1952 | 545 | 898 | 1648 | 8656 | 18509 | 2138 |
| 10. | Malappuram | 5288 | 9945 | 1881 | 3064 | 5733 | 1871 | 2775 | 6761 | 2436 | 11127 | 22439 | 2017 |
| 11. | Kozhikode | 784 | 1185 | 1515 | 632 | 1012 | 1601 | 965 | 1316 | 1364 | 2381 | 3513 | 1475 |
| 12. | Wayanad | -- | -- | -- | 4842 | 12635 | 2609 | 2596 | 5878 | 2264 | 7438 | 18513 | 2489 |
| 13. | Kannur | 5742 | 10476 | 1825 | 1732 | 3362 | 1941 | 210 | 354 | 1684 | 7684 | 14194 | 1847 |
| 14. | Kasaragod | 2754 | 6165 | 2239 | 1183 | 2559 | 2163 | 65 | 136 | 2000 | 4002 | 8854 | 2212 |
| | State | 73243 | 144648 | 1975 | 51192 | 113988 | 2227 | 47983 | 113269 | 2361 | 172418 | 371905 | 2157 |

* Provisional

Source: Directorate of Economics and Statistics, Thiruvananthapuram.

APPENDIX - 4.6

AVERAGE PRICES OF IMPORTANT AGRICULTURAL INPUTS

| Sl. No. | Item | 1990-91 (Rs.) | 1991-92 (Rs.) | 1992-93 (Rs.) | 1993-94 (Rs.) |
|---|--|------------------|-------------------------------------|-------------------------------------|------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| I. Fertilisers* (price tonne) | | | | | |
| i. | Urea | 2350.00 | 3060.00 (wef 25/7/91) | 2760.00 (wef 25/8/92) | 2760.00 |
| ii. | Ammonium Sulphate | 1650.00 | 1650.00 3250.00 (wef 25/7/91) | 3250.00 1920.00 (wef 25/8/92) | 1920.00 |
| iii. | Super phosphate | 950.00 | 950.00 1240.00 (wef 25/7/91) | 1240.00 2420.00 (wef 25/8/92) | 2420.00 |
| iv. | Muriate of potash | 1300.00 | 1300.00 1700.00 (wef 25/7/91) | 1700.00 5690.00 (wef 25/8/92) | 5690.00 |
| II. Paddy Seed | | | | | |
| i. | Avg. NSC Price (per quintal) | 580.00 | 580.00 | 700.00 | 800.00 |
| ii. | State Seed Farm Price (per quintal) | 300.00 | 300.00 | 300.00 | 500.00 |
| III. Green manure seed (per Kg) | | | | | |
| | | 9.00 | 10.00 | 12.00 | 12.90 |
| IV. Coconut Seedlings (per seedlings) | | | | | |
| a. | WCT | 12.00 | 12.00 | 12.00 | 15.00 |
| b. | Hybrids | 15.00 | 15.00 | 15.00 | 18.00 |
| V. Cashew layers (per layer) | | | | | |
| | | 3.00 | 3.00 | 5.00 | 8.00 |
| VI. Rooted pepper cuttings (price per cutting) | | | | | |
| | | 0.50 | 1.00 | 1.00 | 1.50 |
| VII. Pesticides (price per litre/kg) | | | | | |
| | Phosphamidon | 265.00 | 280.00 | 303.00 | 360.00 |
| | Quinalphos | 188.00 | 193.00 | 247.00 | 293.00 |
| | Monocrotophos | 243.00 | 268.00 | 296.00 | 310.00 |
| | Copper sulphate | 32.00 | 40.00 | 50.00 | 62.00 |
| * Period | Urea | | Ammonium Sulphate | SSP | MOP |
| | Prior to 25-7-91 | 2350 | 1650 | 950 | 1300 |
| | Price w.e.f 25-7-91 | 3060 | 3250 | 1240 | 1700 |
| | Price w.e.f. 25-8-92 | 2760 | 1920 | 2420 | 5690 |
| | Price in 1993-94 | 2760 | 1920 | 2420 | 5690 |

Source: Directorate of Agriculture, Thiruvananthapuram.

APPENDIX 4.7

Animal Husbandry Activities during 1993-94

| Sl. No. | Activities | Unit | Performance for the years | | |
|---------|---|-------|---------------------------|----------|---------|
| | | | 1991-92 | 1992-93 | 1993-94 |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Cases treated | Nos. | 3783036 | 3298356 | 3326500 |
| 2. | Operations performed | " | 118636 | 110086 | 112041 |
| 3. | Castrations done | " | 13626 | 11782 | 12245 |
| 4. | Vaccinations done | | | | |
| | i) Livestock | " | 2021717 | 2009586 | 2349143 |
| | ii) Poultry | " | 4124485 | 6515239 | 4647680 |
| 5. | Anti Rabic Vaccinations done on dogs | " | 23220 | 40322 | 49818 |
| 6. | Artificial inseminations | " | 1376761 | 1233760 | 1351831 |
| 7. | Calvings Recorded | " | 262549 | 261286 | 303331 |
| 8. | Chicks Hatched Out in the Departmental Poultry farms | " | 636503 | 882663 | 901057 |
| 9. | Eggs produced in the departmental farms | " | 1887822 | 2095670 | 1816369 |
| 10. | Vaccines produced in the veterinary Biologicals, Palode | | | | |
| | For poultry | Doses | 8558800 | 11302400 | 9070100 |
| | For livestock | Doses | 2558640 | 2123400 | 1488680 |
| 11. | Poultry Feed Produced in the Departmental Production Unit | Ton | 1172 | 36959 | 30227 |

535

Source : Animal Husbandry Department

APPENDIX 4.8

Average Price of Livestock Products and feeds in the State for the last 3 years

| Item | 1991-92 Rs. | 1992-93 Rs. | % increase | 1993-94 Rs. | % increase |
|------------------------------|----------------|----------------|------------|----------------|------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| Meat : | | | | | |
| Chicken - Kg. | 25.97 | 30.92 | 19.06 | 37.00 | 19.66 |
| Mutton - Kg. | 41.00 | 51.00 | 24.39 | 59.00 | 15.68 |
| Beef - Kg. | 17.00 | 21.00 | 23.53 | 25.67 | 22.24 |
| Pork - Kg. | 27.80 | 30.00 | 7.91 | 34.80 | 16.00 |
| Egg : | | | | | |
| Fowl - (100) | 81.00 | 95.00 | 17.28 | 104.53 | 10.03 |
| Duck - (100) | 127.00 | 147.75 | 16.34 | 159.05 | 7.65 |
| Milk : | | | | | |
| Cow - Litre | 5.81 | 6.75 | 16.18 | 7.60 | 12.59 |
| Feed Products (Price) | | | | | |
| Ground nut cake - Kg. | 4.90 | 5.78 | 17.96 | 5.77 | --- |
| Gingely Oil Cake - Kg. | 5.22 | 6.17 | 18.19 | 6.25 | 12.96 |
| Coconut Cake - Kg. | 4.96 | 6.22 | 25.40 | 6.51 | 4.66 |
| Fish meal | | | | | |
| Straw - (MT) | 0.51 | 0.60 | 17.65 | 0.66 | 10.00 |
| Grass - (MT) | 132.80 | 155.11 | 16.80 | 182.00 | 17.34 |

Source : Animal Husbandry Department

APPENDIX - 4.9

RECORD OF PERFORMANCE OF THE DAIRIES DURING 1993 & 1994

(Quantity in Litres)

| Dairy | Capacity | Progressive 1993 | Total 1994 | Average 1993 | Per day 1994 1994 | Progressive 1993 | Total 1994 | Average 1993 | Per day 1994 |
|--------------------|----------|---------------------|---------------|-----------------|----------------------|---------------------|---------------|-----------------|-----------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| Thiruvananthapuram | 100000 | 20190826 | 24541600 | 55317 | 67237 | 30039730 | 31985542 | 82301 | 87632 |
| Kollam | 60000 | 21624243 | 22649508 | 59245 | 62053 | 15441309 | 17895499 | 42305 | 49029 |
| Alappuzha | 60000 | 7160135 | 7200226 | 19617 | 19727 | 8453093 | 9437136 | 23159 | 25855 |
| Kottayam | 5000 | 3493368 | 3907720 | 9571 | 10706 | 27944713 | 29173857 | 76561 | 79928 |
| Ernakulam | 100000 | 35138625 | 35145240 | 96270 | 96288 | 8113423 | 8241308 | 22229 | 22579 |
| Thrissur | 60000 | 6985793 | 10899198 | 19139 | 29861 | 8669275 | 11320575 | 23751 | 31015 |
| Palakkad | 10000 | 13308216 | 17252701 | 36461 | 47268 | 8491255 | 9514641 | 23264 | 26068 |
| Kannur | 10000 | 17412884 | 19039279 | 47707 | 52162 | 14676994 | 15700289 | 40211 | 43014 |
| Kozhikode | 12000 | 6891696 | 7818816 | 18881 | 21421 | 13490693 | 16176613 | 36961 | 44319 |
| Total | 417000 | 132205786 | 148437835 | 362208 | 406679 | 135320485 | 149443386 | 370741 | 409434 |

Source: KCOMMF

APPENDIX 4.10

District-wise distribution of Fishermen population in Kerala 1994

| Sl. No. | District | Marine | | | | Inland | | | Marine & Inland | |
|---------|--------------------|--------|--------|----------|--------|--------|--------|----------|-----------------|--------|
| | | Male | Female | Children | Total | Male | Female | Children | Total | Total |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1. | Thiruvananthapuram | 48176 | 46178 | 66008 | 160362 | 435 | 420 | 443 | 1298 | 161660 |
| 2. | Kollam | 28983 | 25524 | 34899 | 90406 | 10613 | 10079 | 12489 | 33181 | 123587 |
| 3. | Alappuzha | 33302 | 32393 | 41477 | 107172 | 19894 | 19121 | 21264 | 60279 | 167451 |
| 4. | Pathanamthitta | --- | --- | --- | --- | 348 | 424 | 624 | 1396 | 1396 |
| 5. | Kottayam | --- | --- | --- | --- | 7954 | 7748 | 8403 | 24105 | 24105 |
| 6. | Idukki | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7. | Ernakulam | 22698 | 22035 | 25219 | 69952 | 21239 | 20579 | 20480 | 62298 | 132250 |
| 8. | Thirssur | 20706 | 20932 | 25549 | 67187 | 6348 | 6193 | 6691 | 19232 | 86419 |
| 9. | Palakkad | --- | --- | --- | --- | 277 | 313 | 4811 | 1001 | 1001 |
| 10. | Malappuram | 22730 | 23267 | 31137 | 77134 | 1343 | 1331 | 1552 | 4226 | 81360 |
| 11. | Wayanad | --- | --- | --- | --- | 336 | 312 | 357 | 1005 | 1005 |
| 12. | Kozhikkode | 29920 | 28947 | 36499 | 95366 | 3703 | 3565 | 4411 | 11679 | 107045 |
| 13. | Kannur | 16578 | 15723 | 21482 | 53783 | 398 | 351 | 364 | 1113 | 54896 |
| 14. | Kasaragod | 13557 | 13018 | 15450 | 42025 | 304 | 289 | 304 | 897 | 42922 |
| | State | 236650 | 229017 | 297720 | 763387 | 73192 | 70725 | 77793 | 221710 | 985097 |

Source : Fisheries Department

APPENDIX 4.11

Species-wise composition of Marine Fish Landings in Kerala

(Qty. in tonnes)

| Sl. No. | Species | 1992 | 1993 | 1994 (till January to March) |
|---------|-------------------------------|---------------|---------------|---------------------------------|
| (1) | (2) | | (3) | (4) (5) |
| 1. | Elasmobranches | 3323 | 4432 | 2066 |
| 2. | Cat fish | 1029 | 597 | 101 |
| 3. | Chirocentrus | 959 | 1707 | 559 |
| 4. | (a) Oil Sardine | 54118 | 49675 | 483 |
| | (b) Other Sardine | 16967 | 22819 | 824 |
| 5. | Anchoviella | 48217 | 49477 | 3857 |
| 6. | Thrissocles & Other clupeoids | 33208 | 18190 | 3044 |
| 7. | Perches | 50159 | 74813 | 13351 |
| 8. | Redmulletts | 7583 | 2489 | 143 |
| 9. | Sciaenids | 15603 | 14657 | 2360 |
| 10. | Ribbon Fishes | 6162 | 7290 | 1856 |
| 11. | Carangids | 12991 | 20725 | 4430 |
| 12. | Leiognathus | 4480 | 6458 | 1395 |
| 13. | Lactaritus | 675 | 907 | 86 |
| 14. | Pomfrets | 2601 | 2654 | 608 |
| 15. | Pomfrets | --- | --- | --- |
| 16. | Mackerel | 37909 | 59172 | 6187 |
| 17. | Seer fish | 8734 | 6447 | 1931 |
| 18. | Tunnies | 16219 | 13257 | 1996 |
| 19. | Soles | 28445 | 20618 | 4588 |
| 20. | (a) Prawn | 51131 | 48119 | 11032 |
| | (b) Lobster & Crustaceans | 17800 | 24797 | 9512 |
| 21. | Cephalopods | 31424 | 28905 | 7932 |
| 22. | Miscellaneous | 111005 | 96534 | 10582 |
| | Total | 560742 | 574739 | 89003 |

Source : Fisheries Department

ANNEXURE 4.12

Species-wise Inland fish production in Kerala 1993-94

(Qty. in tonnes)

| Sl. No. | Species | 1992-93 | 1993-94 | | Variation | |
|--------------|----------|--------------|--------------|---------------|-------------|-------------|
| | | | Actual | Percentage | Actual | Percentage |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1. | Prawn | 10845 | 11306 | 104.25 | +461 | 4.25 |
| 2. | Etroplus | 4058 | 4313 | 106.28 | +255 | 6.28 |
| 3. | Murrels | 3796 | 3859 | 101.66 | +63 | 1.66 |
| 4. | Tilapia | 6143 | 6295 | 102.47 | +152 | 2.47 |
| 5. | Cat fish | 4034 | 4157 | 103.04 | +123 | 3.05 |
| 6. | Jew fish | 2319 | 2274 | 98.05 | -45 | (-) 1.94 |
| 7. | Others | 11195 | 13278 | 118.61 | +2083 | (+) 18.61 |
| Total | | 42390 | 45482 | 107.29 | 3092 | 7.29 |

Source : Fisheries Department

APPENDIX 4.13

Export of Marine Products from Kerala/India 1983-84 to 1993-94

| Year | Quantity exported (Tonnes) | | | Value of exports (Rs. crores) | | |
|---------|----------------------------|--------|-------|-------------------------------|---------|-------|
| | Kerala | India | % | Kerala | India | % |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1983-84 | 32840 | 92691 | 35.43 | 140.85 | 373.02 | 37.76 |
| 1984-85 | 31570 | 86187 | 36.63 | 148.13 | 384.29 | 38.55 |
| 1985-86 | 29580 | 83651 | 35.36 | 138.08 | 398.00 | 34.69 |
| 1986-87 | 33906 | 85843 | 39.50 | 164.57 | 460.67 | 35.72 |
| 1987-88 | 35576 | 97179 | 36.61 | 183.94 | 531.20 | 34.63 |
| 1988-89 | 45614 | 99777 | 45.72 | 221.31 | 597.85 | 37.02 |
| 1989-90 | 47245 | 110843 | 42.62 | 240.94 | 634.99 | 37.94 |
| 1990-91 | 50997 | 139419 | 36.58 | 313.79 | 893.37 | 35.12 |
| 1991-92 | 58743 | 171820 | 34.19 | 444.47 | 1375.89 | 32.30 |
| 1992-93 | 49094 | 208602 | 23.53 | 414.25 | 1767.43 | 23.43 |
| 1993-94 | 63809 | 243960 | 26.15 | 621.53 | 2503.00 | 24.83 |

Source : Fisheries Department

APPENDIX 4.14

Details of Fishermen Co-operatives in Kerala (1993-94)

| Sl. No. | Category | No. of Societies | Total Membership (No.) | Paid up Share Capital (Rs. in lakhs) |
|--------------|--|------------------|------------------------|--------------------------------------|
| (1) | (2) | (3) | (4) | (5) |
| 1. | Apex Federation | 1 | 19 | 100.00 |
| 2. | District Fishermen Development & Welfare Co-operative Societies | 5 | 25 | 25.00 |
| 3. | Marine Fishermen Development and Welfare Co-operative Societies | 293 | 91744 | 40.90 |
| 4. | New Marine Fishermen's Development and Welfare Co-operative Societies | 212 | --- | --- |
| 5. | Inland Fishermen's Development and Welfare Co-operative Societies | 24 | 4249 | 0.42 |
| 6. | Harijan/Girijan Fishermen Development and Welfare Co-operative Societies | 58 | 11184 | 316.10 |
| 7. | Primary Co-operative Societies | 17 | --- | --- |
| 8. | Matsya Ulpadaka Matsya-Vyavasaya Co-operative Societies | 26 | 7924 | 34.07 |
| 9. | Others | 5 | 812 | 0.85 |
| Total | | 423 | 115957 | 517.34 |

Source : Fisheries Department

APPENDIX 4.15

**Details of Physical and Financial Achievements Under the Integrated Fisheries
Development Project (NCDC Assisted) As on 31-3-1994**

(Rs. in lakhs)

| Sl. No. | 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) | (10) |
| 1. | Inputs-Fishing OBM | 819 | --- | 816 | 242 | 1179 | 531 | 2814 | 773 |
| | CRAFTS | 395 | --- | 406 | 175 | 791 | 215 | 1592 | 390 |
| | WEBBINGS | 64790Kg. | 378 | 149201Kg. | 294 | 1266031Kg. | 294 | 1480022Kg. | 966 |
| | ACCESSORIES | --- | --- | --- | 85 | --- | --- | --- | 85 |
| | Marketing | 6 | 9 | --- | 15 | --- | --- | 6 | 23 |
| 2. | OBM Service Centre | 2 | 12 | --- | --- | --- | --- | 2 | 12 |
| 3. | Infrastructure --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4. | Extension & Training | --- | 91 | --- | 27 | --- | 19 | --- | 137 |
| 5. | Working Capital --- | --- | 9 | --- | --- | --- | 1 | --- | 9 |
| 6. | Project Management | --- | N.A. | --- | 123 | --- | 86 | --- | 209 |
| 7. | Pre-Operative Expenses | --- | 30 | --- | 10 | --- | 36 | --- | 76 |
| 8. | Project Contingencies | --- | 28 | --- | 55 | --- | 129 | --- | 212 |
| 9. | No. of Fishermen benefitted | 3158 | --- | 7373 | --- | 6048 | --- | 16579 | --- |
| | Others | --- | --- | --- | 6 | --- | --- | --- | 6 |
| Total | | 556 | | 1034 | | 1311 | | | |

Source : Fisheries Department

APPENDIX 4.16

Physical and Financial Achievements of Kerala Fishermen Welfare Fund Board - 1993-94

| Sl. No. | Name of Scheme | No. of beneficiaries | Amount (Rs.1000) |
|---------|--|----------------------|------------------|
| (1) | (2) | (3) | (4) |
| 1. | Old age pension | 27000 | 27894.37 |
| 2. | Financial assistance for the marriage of daughters of fishermen | 440 | 651.60 |
| 3. | Group Accident Insurance | | |
| | a) Death cases | 72 | 1732.00 |
| | b) Permanent total disability | 2 | 46.00 |
| | c) Permanent partial disability | 5 | 60.50 |
| 4. | Death immediately after fishing | 28 | 420.00 |
| 5. | Financial assistance for expenses for death of dependents of fishermen | 464 | 139.20 |
| 6. | Financial assistance for temporary disability of fishermen due to accident | 787 | 258.37 |
| 7. | Financial assistance to dependents for expenses for natural death of fishermen | 129 | 64.50 |
| 8. | Special cases sanctioned by Board for death or disability | 31 | 174.00 |
| 9. | Compensation paid for loss or damages (Huts) | 2 | 10.07 |
| 10. | Financial Assistance to fishermen who undergoes sterilisation operations | 6 | 1.50 |
| 11. | Cash awards to S.S.L.C. Students of Fishermen | 3 | 4.00 |

Source : Fisheries Department

Details of Fisheries Works Under Harbour Engineering Department

| Total estimated cost | | | | | | | Total | Remarks (Present stage) |
|----------------------|-------------------------------------|--------------------------|-------------------------|---------------------|-------------------------------------|---|---|----------------------------|
| Sl. No. | Name of Work | Original Rs. in lakhs | Revised Rs. in lakhs | Year of Starting | Year of Completion/ targetted | expenditure upto March 1994 (Rs. in lakhs) | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
| A. | 1. Vizhinjam Fishery Harbour | 173 | 208 | 1962 | 1980 | 825.62 | Completed | |
| | State I, II & III stages | 704 | 1100.00 | 1980 | 1995 | | Agreement executed for the balance work such as wharf, Auction hall & Gear shed. | |
| | 2. Neendakara Fishery Harbour | 370.00 | 622.00 | 1980 | 1988 | 729.51 | The work partially completed & the harbour commissioned. Balance portion of 98m wharft at Sakthikulangara side not commenced for want of land | |
| | 3. Thankassery Fishery Harbour | 1411.00 | Nil | 1991 | 1994 | 633.60 | Work in progress | |
| | 4. Murrabam Fishery Harbour | 710.00 | Nil | 1991 | 1994 | 496.74 | Work in progress | |
| | 5. Puthiyappa Fishery Harbour | 527.00 | Nil | 1988 | 1992 | 527.42 | Work in progress | |
| | 6. Chombal Fishery Harbour | 556.00 | Nil | 1992 | 1996 | 85.59 | Breakwater work tendered | |
| | 7. Mopala Bay | 564.00 | Nil | 1992 | 1996 | 52.20 | breakwater reached 284m and in progress | |
| B. | Landing Centre for Mechanised Boats | | | | | | | |
| | 1. New Mahe | 28.43 | 1988 | 1993 | 41.11 | Work completed | | |
| | 2. Thottappally | 25.27 | --- | 1984 | 1994 | 53.52 | Work Completed | |
| | 3. Palacode | 15.00 | --- | 1986 | --- | 13.25 | Partially completed | |
| | 4. Cheruvathoor | 18.43 | 29 | 1982 | --- | 29.37 | Completed & Commissioned | |
| | 5. Dharmadom | 20.95 | --- | 1986 | --- | 25.49 | Completed & Commissioned | |
| | 6. South Paravoor | 24.94 | --- | 1989 | --- | 3.49 | Scheme deferred | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----|--|-------|--------|------|------|--------|---|
| | 7. Chettuvai | 19.50 | --- | 1989 | --- | 27.30 | Work completed |
| | 8. Kasaragode | 13.44 | 36.50 | | 1986 | 40.72 | Work completed |
| | 9. Munakkakadavu | 10.25 | --- | 1982 | 1986 | 23.74 | Work completed |
| | 10. Neeleswaram | 10.25 | 30.73 | 1981 | 1985 | 28.15 | Work completed |
| C. | Landing Centre for Traditional Fishermen | | | | | | |
| | 1. Vizhinjam North | 18.70 | --- | 1986 | --- | 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 Gopalapettah | 25.00 | | 1985 | --- | 30.73 | Completed |
| | 6. Quilon Port | 22.00 | | --- | --- | Nil | Scheme deferred |
| | 7. Arthungal | 32.22 | | --- | --- | 7.86 | Work in progress |
| | 8. Quilandy | 23.00 | | --- | --- | 16.58 | Work in progress |
| D. | Brackish Water Fish Farm's | | | | | | |
| | 1. Poyya | 23.62 | 111.75 | 1984 | 1989 | 126.50 | Almost completed and handed over to Agency for Development of Acqua Culture, Kerala for executing balance work. |
| | Other Fisheries Works | | | | | | |
| | (a) Setting up of Nurseries 4405-101-94 | | | | | | |
| | 1. Conversion of natural ponds into cemented ponds at Pannivelichira | 8.3 | --- | --- | --- | 8.8 | Work completed |
| | 2. Construction of Nursery ponds parking shed and accommodation at Polachira | 10.00 | --- | --- | --- | 10.08 | Work almost completed |
| | (b) Setting up of Nurseries 2405-101-'84 | 2.345 | --- | --- | --- | 5.89 | Work completed |
| | (c) Prawn Hatchery at Azhikode | 2.635 | --- | --- | --- | 3.97 | Work in progress |

APPENDIX 4.18

Division wise Area of Forests in Kerala

| Area in Ha. as on 31-3-94 | | | | | |
|---------------------------------|--------------------|-----------------|------------------------------|----------------|-----------------|
| Sl. No. | Divisions | Reserve Forests | Proposed for reserve forests | Vested forests | Total |
| (1) | (2) | (3) | (4) | (5) | (6) |
| A. TERRITORIAL DIVISIONS | | | | | |
| 1. | Thiruvananthapuram | 360.08 | 5.83 | 3.98 | 369.88 |
| 2. | Thenmala | 299.14 | - | 12.16 | 311.30 |
| 3. | Punalur | 280.05 | | 0.17 | 280.22 |
| 4. | Konni | 320.64 | 11.02 | - | 331.66 |
| 5. | Ranni | 1050.29 | 7.17 | 1.61 | 1059.07 |
| 6. | Achencovil | 269.00 | - | 0.21 | 269.21 |
| 7. | Munnar | 662.75 | 47.26 | 5.83 | 715.84 |
| 8. | Kottayam | 655.48 | 5.26 | 31.41 | 692.15 |
| 9. | Kothamangalam | 316.87 | - | 0.15 | 317.02 |
| 10. | Malayattor | 617.24 | 0.53 | - | 617.77 |
| 11. | Vazhachal | 413.94 | - | - | 413.94 |
| 12. | Chalakydy | 354.71 | - | - | 354.71 |
| 13. | Trissur | 331.02 | - | 6.34 | 337.36 |
| 14. | Nenmara | 205.52 | - | 135.14 | 340.68 |
| 15. | Palakkad | 73.41 | - | 166.95 | 240.36 |
| 16. | Mannarkad | 209.98 | - | 459.41 | 669.38 |
| 17. | Nilambur South | 267.51 | - | 98.57 | 366.10 |
| 18. | Nilambur North | 57.92 | 0.02 | 336.11 | 394.05 |
| 19. | Kozhikode | - | 86.14 | 207.14 | 293.28 |
| 20. | Wayanad South | 67.60 | 3.59 | 252.44 | 323.63 |
| 21. | Wayanad North | 133.90 | 15.07 | 67.12 | 216.09 |
| 22. | Kannur | 206.51 | - | 79.31 | 285.82 |
| Total | | 7153.56 | 181.88 | 1864.07 | 9199.50 |
| B. WILDLIFE DIVISIONS | | | | | |
| 1. | Thiruvananthapuram | 181.00 | --- | --- | 181.00 |
| 2. | Agasthyavanam | 30.45 | 0.67 | --- | 31.12 |
| 3. | Idukki | 289.60 | --- | --- | 289.60 |
| 4. | Thekkady | 777.00 | 0.54 | --- | 777.54 |
| 5. | Parambikulam | 274.14 | --- | --- | 274.14 |
| 6. | Silent Valley | 89.52 | --- | --- | 89.52 |
| 7. | Wayanad | 366.91 | --- | 32.64 | 399.55 |
| B. | Total | 2008.62 | 1.22 | 32.64 | 2042.47 |
| A. | Total | 7153.56 | 181.88 | 1864.06 | 9199.50 |
| Grand Total | | 9162.19 | 183.08 | 1896.70 | 11241.97 |

Source : Forest Department

APPENDIX 4.19

Forest Revenue in Kerala

(Rs. in lakhs)

| Sl. No. | Item | 1992-93 Increase | 1993-94 | Percentage |
|-------------------------------|-----------------------|------------------|----------------|--------------|
| (1) | (2) | (3) | (4) | (5) |
| A. Revenue from Forest | | | | |
| 1. | Timber | 6794.63 | 9043.50 | 33.09 |
| 2. | Firewood and Charcoal | 89.30 | 100.89 | 12.98 |
| 3. | Live stock | 1.48 | 7.62 | 414.86 |
| 4. | Others | 654.02 | 840.14 | 28.46 |
| | Total - A | 7539.43 | 9992.15 | 32.53 |
| B. | Other receipts | 348.68 | 327.06 | -6.20 |
| C. | Total A+B | 7888.11 | 10319.21 | 30.82 |
| D. | Refunds | 16.72 | 23.37 | 39.77 |
| E. | Net Revenue (C-D) | 7871.39 | 10295.84 | 30.80 |

Source : Forest Department

APPENDIX 4.20

Production of Major Forest Produce

| Sl. No. | Item | Unit | 1990-91 | 91-92 | 92-93 | 93-94 | Actual increase or decrease over the year |
|---------|------------------------|----------|---------|-------|-------|-------|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1. | Timber (Round log) | '000Cum | 37.98 | 42.01 | 51.55 | 78.69 | +27.14 |
| 2. | Timber (Round Poles) | '000Nos. | 316 | 742 | 868 | 725 | -143 |
| 3. | Timber (Swan & Squard) | Cum | - | 81 | 52 | 226 | +174 |
| 4. | Fire wood | M.T. | 9520 | 16983 | 24328 | 33409 | +9081 |
| 5. | Charcoal | Qtl. | 647 | 52 | 12 | 7 | -6 |
| 6. | Cardamom | Qtl. | 28 | 25 | 41 | 15 | -26 |
| 7. | Honey | Qtl. | 166 | 445 | 383 | 656 | +274 |
| 8. | Reeds | '000Nos. | 76006 | 41999 | 41587 | 64784 | +23197 |
| 9. | Bamboo | '000Nos. | 3756 | 1006 | 1077 | 1519 | +442 |
| 10. | Junglewood poles | Nos. | 6702 | 290 | 433 | 174 | -259 |
| 11. | Sandalwood | Kg. | 723 | 841 | 1474 | 2184 | +710 |

Source : Forest Department

Specieswise Area Under Forest Plantations

Area in Hecteres

| Sl. No. | Name of species | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | % to total as on 31-3-94 |
|---------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 1. | Teak | 78583 | 78799 | 76502 | 76202 | 75355 | 74914 | 74947 | 48.33 |
| 2. | Eucalyptus | 33986 | 32095 | 31609 | 30675 | 29923 | 29633 | 29066 | 18.74 |
| 3. | Softwood | 10695 | 5907 | 1239 | 1239 | 919 | 895 | 787 | 0.51 |
| 4. | Mixed Plantations | 17832 | 23480 | 30660 | 31490 | 32887 | 33999 | 34526 | 22.26 |
| 5. | Cashew | 4157 | 4138 | 3784 | 3784 | 4558 | 4570 | 4525 | 2.92 |
| 6. | Bamboo | 280 | 444 | 404 | 509 | 646 | 996 | 1036 | 0.67 |
| 7. | Wattle | 3085 | 3183 | 3247 | 3524 | 3735 | 3890 | 3811 | 2.46 |
| 8. | Hardwood | 588 | 718 | 849 | 849 | 849 | 859 | 847 | 0.55 |
| 9. | Fuelwood | 1448 | 385 | 86 | 122 | 96 | 138 | 165 | 0.11 |
| 10. | Pepper | 508 | 508 | 314 | 314 | 408 | 459 | 439 | 0.28 |
| 11. | Pine | 449 | 449 | 449 | 452 | 452 | 452 | 452 | 0.29 |
| 12. | Mahagony | 80 | 89 | 170 | 170 | 169 | 169 | 169 | 0.11 |
| 13. | Rosewood | 183 | 193 | 149 | 146 | 155 | 155 | 164 | 0.10 |
| 14. | Balsa | 81 | 77 | 97 | 97 | 93 | 93 | 93 | 0.06 |
| 15. | Cardamom | --- | --- | --- | --- | --- | --- | --- | --- |
| 16. | Sandalwood | 14 | 14 | 12 | 12 | 11 | 11 | 11 | 0.01 |
| 17. | Kongu | 14 | --- | --- | --- | --- | --- | --- | --- |
| 18. | Zyiosium | --- | --- | --- | --- | --- | --- | --- | --- |
| 19. | Others | 3354 | 3622 | 3441 | 3563 | 3502 | 3855 | 4034 | 2.60 |
| Total | | 155337 | 154101 | 153012 | 153148 | 153758 | 155088 | 155072 | 100.00 |

Source : Forest Department

APPENDIX 4.22

Details of Wildlife Sanctuaries and National Parks

| Sl. No. | Name of Wild life sanctuary/park | Area (Ha.) | District | Head quarters |
|---------|----------------------------------|------------|--------------------|----------------|
| (1) | (2) | (3) | (4) | (5) |
| 1. | Eravikulam National Park | 9700 | Idukki | Painavu |
| 2. | Silent Valley National Park | 8952 | Palakkad | Mannarkkad |
| 3. | Neyyar wildlife sanctuary | 12800 | Thiruvananthapuram | Neyyar dam |
| 4. | Peppara " | 5300 | Thiruvananthapuram | Peppara dam |
| 5. | Shenduriny " | 10032 | Kollam | Thenmala |
| 6. | Idukki " | 7760 | Idukki | Painavu |
| 7. | Chinnar " | 9044 | Idukki | Chinnar |
| 8. | Thattekkad Bird " | 2516 | Idukki | Thattekkad |
| 9. | Peechi-Vazhani " | 12500 | Thrissur | Peechi |
| 10. | Chinmoni " | 1000 | Thrissur | Chmmony |
| 11. | Parambikulam " | 27414 | Palakkad | Parambikulam |
| 12. | Wayanad " | 34444 | Wayanad | Sultan Battery |
| 13. | Aralam " | 5500 | Kannur | Aralam |
| 14. | Periyar Tiger Reserve | 77754 | Idukki | Thekkady |

Source : Forest Department

APPENDIX 4.23

AGENCY-WISE DISBURSEMENT OF REFINANCE ASSISTANCE BY NABARD

(Rs. in crores)

| Sl. No. | Agencies | 1991-92 | | | 1992-93 | | | 1993-94 | | |
|---|-------------------|---------|--------|--------------------------|---------|--------|--------------------------|---------|--------|--------------------------|
| | | India | Kerala | Percentage (Agency-wise) | India | Kerala | Percentage (Agency-wise) | India | Kerala | Percentage (Agency-wise) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1. | KSCARDB | 658.00 | 29.69 | 35.11 | 885.00 | 39.42 | 37.94 | 1113.00 | 54.00 | 43.11 |
| 2. | Comm. Banks | 952.00 | 31.21 | 36.91 | 1004.00 | 37.18 | 35.78 | 1029.00 | 39.96 | 31.90 |
| 3. | State Co-op. Bank | 149.00 | 18.99 | 22.45 | 168.00 | 20.45 | 19.68 | 245.00 | 19.07 | 15.23 |
| 4. | RRB | 295.00 | 4.68 | 5.53 | 302.00 | 6.86 | 6.60 | 358.00 | 12.22 | 9.76 |
| Total | | 2054.00 | 84.57 | 100.00 | 2359.00 | 103.91 | 100.00 | 2745.00 | 125.25 | 100.00 |
| Percentage share of Kerala to All India | | | 4.12 | | | 4.40 | | | 4.56 | |

Source : NABARD

APPENDIX 4.24

PURPOSE-WISE DISBURSEMENT BY NABARD

(Rs. in crores)

| Sl. No. | Purpose | 1991-92 | | 1992-93 | | 1993-94 | |
|---------|-----------------------------|-----------|--------|-----------|--------|-----------|--------|
| | | P.U. Amt. | % | P.U. Ref. | % | P.U. Ref. | % |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1. | Plantation/ Horticulture | 22.50 | 26.61 | 20.76 | 19.98 | 23.27 | 18.57 |
| 2. | Minor Irrigation/REC | 15.06 | 17.81 | 14.54 | 13.99 | 20.07 | 16.02 |
| 3. | Land development | 2.37 | 2.80 | 2.17 | 2.09 | 1.42 | 1.13 |
| 4. | Farm Mechanisation | 2.55 | 3.02 | 4.70 | 4.52 | 4.30 | 3.43 |
| 5. | Fisheries | 1.26 | 1.49 | 1.57 | 1.51 | 2.36 | 1.88 |
| 6. | Dairy development | 5.05 | 5.98 | 4.62 | 4.45 | 7.64 | 6.10 |
| 7. | Poultry | 0.67 | 0.79 | 1.04 | 1.00 | 1.80 | 1.43 |
| 8. | IRDP | 14.27 | 16.87 | 14.88 | 14.32 | * | * |
| 9. | Others | 5.83 | 6.89 | 7.91 | 7.61 | 14.05 | 11.29 |
| 10. | Non-farm sector | 15.01 | 17.73 | 31.71 | 30.52 | 50.34 | 40.15 |
| Total | | 84.57 | 100.00 | 103.91 | 100.00 | 125.25 | 100.00 |

* IRDP disbursement already loaded in to various sectors in 1993-94

Source : NABARD

APPENDIX 4.25

PHYSICAL UNITS FINANCED & REFINANCE DISBURSED BY NABARD

(Rs. in crores)

| Sl. No. | Purpose | 1992-93 | | 1993-94 | |
|---------|----------------------------|----------------|--------------|----------------|--------------|
| | | Physical Units | NB Refinance | Physical Units | NB Refinance |
| 1. | 2. | 3. | 4 | 5 | 6 |
| | MI | | | | |
| a) | Dug well (Units) | 9802 | 3.97 | 8133 | 6.60 |
| b) | Tube well (Units) | | | 64 | 0.10 |
| c) | Deepening of wells | 602 | 0.26 | 925 | 0.27 |
| d) | Well & Pumpset (Units) | - | - | 1105 | 1.76 |
| e) | Pumpset/Oil Engine (Units) | 4504 | 4.54 | 6971 | 5.32 |
| f) | Underground Pipeline (Ha.) | 674 | 0.41 | 1640 | 0.40 |
| g) | Drip irrigation (Ha) | - | - | 79 | 0.10 |
| h) | Sprinkler irrigation (Ha) | 219 | 0.53 | 284 | 0.35 |
| i) | Lift Irrigation (Ha) | - | - | - | - |
| j) | Others | - | 0.43 | - | 2.14 |
| | REC/SPA units | - | - | 5862 | 3.03 |
| | FM | | | | |
| a) | Tractors (Units) | 452 | 3.87 | 434 | 3.67 |
| b) | Power tillers (Units) | 226 | 0.84 | 184 | 0.63 |
| c) | Threshers (Units) | | | - | - |
| d) | Others (Units) | | | - | - |
| | P/H | | | | |
| a) | Mango (Ha) | 6 | 0.12 | - | - |
| b) | Grapes (Ha) | - | - | - | - |
| c) | Other fruit crops (Ha) | 26 | 0.31 | 114 | 0.47 |
| d) | Tea (Ha) | 360 | 1.51 | 202 | 1.11 |
| e) | Coffee (Ha) | 143 | 0.30 | 209 | 0.32 |
| f) | Rubber (Ha) | 1959 | 5.28 | 2756 | 9.15 |
| g) | Coconut (Ha) | 854 | 1.61 | 2478 | 5.03 |
| h) | Other plantation crop (Ha) | 618 | 2.54 | 1496 | 3.56 |
| i) | Nurseries (Ha) | 42 | 0.15 | 221 | 0.74 |
| j) | Misc. | - | - | - | 2.89 |

| 1. | 2. | 3. | 4 | 5 | 6 |
|----|----------------------------------|-------|--------|--------|--------|
| | BIOGAS (Units) | 691 | 0.21 | 331 | 0.34 |
| | POULTRY (No. of birds) | 84200 | 0.49 | 285581 | 1.75 |
| | Sheep/Goat/Piggery (Animals) | 1065 | 25.67 | 4770 | 0.33 |
| | FISH | | | | |
| a) | Inland (Ha) | 8.91 | 0.18 | 142 | 0.33 |
| b) | Marine (Units) | 40 | 0.92 | 55 | 1.64 |
| | DIARY (No. of animals) | 6574 | 2.89 | 12018 | 3.82 |
| | IRDP | | | | |
| a) | Farm sector (No. of families) | 17550 | 7.02 | 13973 | 5.78 |
| | ISB (No. of families) | 22485 | 7.87 | 20342 | 7.06 |
| | SC/ST AP | | | | |
| a) | Farm sector (No. of families) | - | - | - | - |
| b) | ISB (No. of families) | - | - | 6 | 0.01 |
| | Non-farm sector (units) | 9504 | 31.99 | 18756 | 50.33 |
| | Others | | | | 6.22 |
| | | | 103.91 | | 125.25 |

Source : NABARD

APPENDIX - 4.26

**SELECTED INDICATORS OF THE CREDIT OPERATIONS OF
THE PRIMARY AGRICULTURAL CREDIT SOCIETIES**

| Sl. No. | Indicators | As on 30-6-92 | As on 30-6-93 |
|---------|--|------------------|------------------|
| (1) | (2) | (3) | (4) |
| 1. | No. of Societies | 1581 | 1580 |
| 2. | No. of Members (Lakhs) | 92.05 | 100.67 |
| | Of which SC (Lakhs) | 9.29 | 9.63 |
| | Of which ST (Lakhs) | 0.70 | 0.71 |
| 3. | Paid up Share Capital (Rs. lakhs) | 10219 | 11577 |
| 4. | Reserves (") | 8360 | 10037 |
| 5. | Deposits (") | 117757 | 150647 |
| 6. | Working Capital (") | 221424 | 267909 |
| 7. | Loans Issued (Total) | 122985 | 149844 |
| | i. Short Term (") | 99043 | 120230 |
| | ii. Medium Term (") | 19502 | 25144 |
| | iii. Long Term (") | 4440 | 4470 |
| 8. | Loan Outstanding (") | 123809 | 149480 |
| 9. | Loan Overdue (") | 25827 | 32274 |
| 10. | S.T. Loan for Agricultural purpose alone (") | 41771 | 41459 |
| 11. | S.T. Loan for Non Agricultural (") | 57272 | 78771 |
| 12. | M.T. Loan for Agricultural purposes (") | 7602 | 8582 |
| 13. | M.T. Loan for Non Agricultural purposes (") | 11900 | 16582 |
| 14. | L.T. Loan for Agricultural purposes (") | 3804 | 3992 |
| 15. | L.T. Loan for Non-Agricultural purposes (") | 636 | 478 |
| 16. | Value of Fertilizers sold (") | 6837 | 7537 |
| 17. | Value of Agricultural produce Marketed (") | 8044 | 5578 |
| 18. | Dormant Societies (No.) | 22 | 24 |
| 19. | Societies on Profit (No.) | 712 | 663 |
| 20. | Profit Amount (Rs. lakhs) | 1590 | 1698 |
| 21. | Societies on loss (No.) | 809 | 874 |
| 22. | Societies without Profit or Loss (No.) | 60 | 43 |
| 23. | Societies having paid Secretaries (No.) | 1562 | 1548 |
| 24. | Societies having own godowns (No.) | 1423 | 1429 |
| 25. | Societies having hired Godowns (No.) | 506 | 452 |

APPENDIX 4.27

Selected indicators of the performance of Agricultural Credit Societies

| Sl. No. | Indicators | Unit | As on 30-6-92 | As on 30-6-93 |
|---------|---|-----------|---------------|---------------|
| 1 | 2 | 3 | 4 | 5 |
| 1. | Average Membership per society | No | 5822 | 6372 |
| 2. | Average Share Capital per society | Rs. lakhs | 6.46 | 7.33 |
| 3. | Average Deposit per society | Rs. lakhs | 74.48 | 95.35 |
| 4. | Average Deposit per member | Rs. | 1279 | 1496 |
| 5. | Average working capital per society | Rs. lakhs | 140.05 | 169.56 |
| 6. | Average Loan per Member | Rs. | 1336 | 1488 |
| 7. | Percentage of Borrowing Members to total | | 39.10 | 40.61 |
| 8. | Average Loan Advanced per Advancing Society | Rs. lakhs | 80.70 | 99.56 |
| 9. | Average Loan Advanced for Borrowing Member | Rs. | 3129 | 3665 |
| 10. | Percentage of overdue to Outstanding | | 20.89 | 21.59 |
| 11. | Percentage of overdue to Demand | | 20.00 | 20.66 |

Source : Co-operative Department

APPENDIX 4.28

Ordinary Loan Advanced by KSCARD Bank Ltd.

(Rs. in lakhs)

| Sl. No. | Purpose | 1991-92 | 1992-93 | 1993-94 |
|---------|---------------------------------------|---------|---------|---------|
| (1) | (2) | (3) | (4) | (5) |
| 1. | Minor Irrigation | 27.58 | 26.52 | 14.15 |
| 2. | Cattle-shed, Farm House, Godown etc. | 276.21 | 278.38 | 220.97 |
| 3. | Plantation | 101.16 | 107.21 | 72.08 |
| 4. | Levelling, Bunding (Land Development) | 677.76 | 625.20 | 730.45 |
| 5. | Others | 61.65 | 205.92 | 142.71 |
| | Total | 1144.36 | 1243.23 | 1180.36 |

Source : KSCARD Bank Ltd.

APPENDIX 4.29

**Scheme Loans advanced by Kerala State Co-operative Agricultural and
Rural Development Bank Ltd. at Primary Level**

(Rs. in lakhs)

| Sl. No. | Name of Scheme | 1991-92 | 1992-93 | 1993-94 |
|---------|--------------------------|----------------|----------------|----------------|
| (1) | (2) | (3) | (4) | (5) |
| 1. | Minor Irrigation | 595.81 | 597.63 | 630.70 |
| 2. | Agricultural Machinery | 250.67 | 354.83 | 362.98 |
| 3. | Plantation | 1404.00 | 1396.58 | 1814.06 |
| 4. | Dairy | 120.04 | 163.54 | 121.94 |
| 5. | Poultry | 50.59 | 122.51 | 142.94 |
| 6. | Fisheries | 53.91 | 40.20 | 58.32 |
| 7. | Goat/Sheep/Piggery Devt. | 6.61 | 4.24 | 1.81 |
| 8. | Gobar Gas/Biogas | 1.02 | 1.28 | 3.45 |
| 9. | Bullock & Bullock Cart | 1.32 | --- | --- |
| 10. | Land Development | 169.35 | 90.54 | 38.80 |
| 11. | Others | --- | 5.82 | --- |
| | Total | 2653.32 | 2777.17 | 3175.00 |

Source : KSCARD Bank Ltd.

APPENDIX 4.30

Loan Advanced and Debentures Floated by K.S.C.A.R.D.B.

(Rs. Crores)

| Sl. No. | Year | Loan Advanced | | | | Debentures Floated | | | |
|---------|---------|---------------|---------|-------|---------------|--------------------|--------|-------|---------|
| | | Ordinary | Schemes | NFS | Rural Housing | Ordinary | Scheme | NFS | Housing |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 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 | 27.61 | 5.20 | --- |
| 3. | 1990-91 | 12.62 | 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 |

Source : KSCARD Bank Ltd.

APPENDIX 4.31

Fund flow from NCDC as on 31-3-1994

(Rs. in crores)

| Sl. No. | Programme | All India (Amount) | Kerala (Amount) | % of Kerala's Share to All India Level |
|---------|--|--------------------|-----------------|--|
| (1) | (2) | (3) | (4) | (5) |
| 1. | Marketing & Inputs | 305.66 | 19.10 | 6.25 |
| 2. | Storage | 621.82 | 9.90 | 1.59 |
| 3. | Agro Processing | 1465.67 | 60.20 | 4.11 |
| 4. | Weaker Sections (SC/ST., Coir, Handlooms, Fisheries, Poultry etc.) | 265.31 | 34.32 | 12.93 |
| 5. | Rural Consumer | 116.88 | 3.61 | 3.08 |
| 6. | Promotional and Development Programmes | 64.49 | 1.81 | 2.81 |
| 7. | Integrated Co-operative Development Project in selected Districts | 85.79 | 18.20 | 18.89 |
| Total | | 2925.62 | 145.14 | 4.96 |

Source : NCDC

APPENDIX 4.32

Release of NCDC assistance to Kerala during 1993-94

(Rs. in lakhs)

| Sl. No. | Scheme | NCDC | Release Budget |
|-------------|--|---------|----------------|
| (1) | (2) | (3) | (4) |
| 1. | EEC-Coconut Development Project | 1020.00 | 737.81 |
| 2. | Share capital participation towards Spinning Mills | 75.00 | 0.00 |
| 3. | Integrated Co-operative Development Project in selected Districts (ICDP) | 320.00 | 593.66 |
| 4. | Margin Money to Federations | 104.00 | 125.00 |
| 5. | Share Capital to PCMS | 15.00 | 12.00 |
| 6. | Assistance to Co-op. Processing Socs. and Federations | 110.00 | 63.16 |
| 7. | Co-operative Storage | 30.50 | 0.00 |
| 8. | Distribution of consumer articles in rural area | 4.80 | 0.00 |
| 9. | Students Co-operatives | 3.30 | 2.25 |
| 10. | Fishery Co-operatives | 530.00 | 560.84 |
| 11. | Coir Development Projects | 180.00 | 222.86 |
| 12. | Handloom Co-operatives | 10.00 | 0.00 |
| 13. | Technical & Promotional Cell | 2.00 | 0.00 |
| 14. | Poultry | 50.00 | 0.00 |
| 15. | Assistance for computerisation | 13.07 | 0.00 |
| 16. | Management studies and Market Survey | 4.60 | 0.00 |
| Grand Total | | 2472.27 | 2317.58 |

Source : NCDC

APPENDIX - 5.1

PHYSICAL TARGET AND ACHIEVEMENT OF THE COMPLETED PROJECTS

| Sl. No. | Name of Projects | Physical Target (Ha.) | | Achievement (Ha.) | |
|---------|------------------|-----------------------|--------|-------------------|--------|
| | | Net | Gross | Net | Gross |
| 1. | Chalakudy | 26680 | 39380 | 18530 | 27258 |
| 2. | Peechi | 17555 | 28080 | 15262 | 23718 |
| 3. | Malampuzha | 29463 | 42090 | 19802 | 40208 |
| 4. | Neyyar | 16042 | 17952 | 8300 | 16716 |
| 5. | Pothundy | 8792 | 10930 | 4685 | 10046 |
| 6. | Gayathri | 7651 | 10930 | 4880 | 10114 |
| 7. | Walayar | 4536 | 6470 | 3752 | 6503 |
| 8. | Vazhanl | 3565 | 7130 | 2113 | 4226 |
| 9. | Mangalam | 4816 | 6880 | 3313 | 6608 |
| 10. | Cheerakuzhi | 2268 | 2828 | 952 | 1846 |
| 11. | Pamba | 21135 | 49456 | 20728 | 48480 |
| 12. | Periyar Valley | 83280 | 85600 | 30095 | 78325 |
| 13. | Chitturpuzha | 15700 | 29202 | 14975 | 29950 |
| 14. | Kuttiyadi | 14570 | 35850 | 14111 | 34710 |
| Total | | 256593 | 372778 | 161498 | 338708 |

Source : Department of Irrigation

APPENDIX - 5.2

PHYSICAL AND FINANCIAL ACHIEVEMENT UNDER MINOR IRRIGATION PROGRAMMES

| Sl. No | Item | Area brought under Irrigation during 1993-94 (Ha.) | | Area brought under Irrigation till 3/94 (Ha.) | | Expenditure during 1993-94 (Rs. In lakhs) |
|--------|-----------------------------|--|-------|---|--------|---|
| | | Net | Gross | Net | Gross | |
| 1 | Minor Irrigation Class - I | 3828 | 5742 | 31112 | 46667 | 765.520 |
| 2 | Minor Irrigation Class - II | 995 | 995 | 58249 | 58249 | 198.917 |
| 3. | Lift Irrigation | 1545 | 2310 | 37343 | 56007 | 308.957 |
| 4. | Minor works in IPD Yelah | 100 | 100 | 13329 | 13329 | 19.366 |
| 5. | Repairs to M.I. Structures | 2922 | 2922 | 16457 | 16457 | 292.25 |
| 6 | Community Irrigation | 28 | 28 | 3775 | 3775 | 5.545 |
| 7. | Jaladhara Padhathi | 1153 | 1153 | 1153 | 1153 | 230.621 |
| 8. | Special Component Plan | 513 | 513 | 3281 | 3281 | 153.698 |
| 9 | Tribal Sub Plan | 123 | 123 | 1660 | 1660 | 36.955 |
| Total | | 11207 | 13886 | 166359 | 200578 | 2011.829 |

Source : Department of Irrigation

APPENDIX - 5.3

DISTRICT-WISE GROUNDWATER POTENTIAL OF KERALA AS ON 31-3-1993

| Sl. No. | District | Total ground water recharge in MCM | Utilisable ground water for irrigation in MCM | Total draft in MCM | Total net draft in MCM as on 31-3-93 | Ground water balance in MCM | Stage of development as on 31-3-93 |
|---------|--------------------|------------------------------------|---|--------------------|--------------------------------------|-----------------------------|------------------------------------|
| 1. | Thiruvananthapuram | 299.57 | 209.69 | 77.44 | 54.21 | 155.48 | 25.05 |
| 2. | Kollam | 464.95 | 371.96 | 106.40 | 74.49 | 297.48 | 20.02 |
| 3. | Pathanamthitta | 373.92 | 317.83 | 49.77 | 34.84 | 282.99 | 10.96 |
| 4. | Alappuzha | 572.00 | 406.21 | 69.36 | 48.55 | 437.66 | 9.99 |
| 5. | Kottayam | 473.98 | 407.89 | 64.48 | 45.14 | 357.75 | 11.20 |
| 6. | Idukki | 458.03 | 389.33 | 33.34 | 23.34 | 365.99 | 5.99 |
| 7. | Ernakulam | 750.65 | 638.06 | 198.10 | 138.67 | 499.39 | 21.73 |
| 8. | Thrissur | 835.24 | 709.94 | 225.67 | 157.97 | 551.97 | 22.25 |
| 9. | Palakkad | 885.59 | 752.77 | 114.39 | 80.07 | 672.70 | 10.64 |
| 10. | Malappuram | 685.56 | 548.46 | 150.59 | 105.41 | 443.05 | 19.22 |
| 11. | Kozhikode | 520.09 | 416.07 | 83.54 | 58.48 | 357.59 | 14.05 |
| 12. | Wayanad | 424.55 | 360.87 | 26.58 | 18.61 | 342.26 | 5.16 |
| 13. | Kannur | 733.09 | 623.12 | 139.89 | 97.92 | 525.20 | 15.71 |
| 14. | Kasaragod | 423.06 | 359.60 | 179.72 | 125.80 | 233.80 | 34.98 |
| Total | | 7900.28 | 6586.80 | 1519.28 | 1063.28 | 5523.30 | 16.27 |

Source : Groundwater Department

APPENDIX - 5.4

PHYSICAL ACHIEVEMENT UNDER COMMAND AREA PROGRAMMES

| Sl. No. | Item | Unit | Achievement during | | Cumulative Achievement till the end of 3/94 |
|---------|----------------------------------|------|--------------------|---------|---|
| | | | 1992-93 | 1993-94 | |
| 1. | Total Cultivable Command Area | Ha. | --- | --- | 1,80,000 |
| 2. | Preparation of Plans and Designs | Ha. | 10717 | 21680 | 1,01,021 |
| 3. | Construction of field channels | Ha. | 9252 | 20897 | 99,858 |
| 4. | Land Levelling | Ha. | 55 | --- | --- |
| 5. | Construction of field drains | Ha. | 2633 | --- | 7,863 |
| 6. | Introduction of Warabandhi | Ha. | 8140 | 13453 | 1,04,495 |
| 7. | Adaptive trails | Ha. | 6788 | 6420 | 21,599 |
| 8. | Demonstrations | Ha. | 7689 | --- | 15,863 |
| 9. | Formation of Farmers' Societies | No. | 259 | 440 | 3,084 |

Source : CADA

Appendix - 5.5

NET AEA IRRIGATED (SOURCE-WISE) 1992-93

(Area in Ha.)

| Name of District | Govt. Canal | Private Canal | Govt. Tanks | Private Tanks | Govt. Wells | Private Wells | Minor and Lift Irrigation | Other Sources | Total |
|--------------------|---------------|---------------|-------------|---------------|-------------|---------------|---------------------------|---------------|---------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| Thiruvananthapuram | 3623 | 242 | 550 | 174 | 12 | 501 | 624 | 1248 | 6974 |
| Kollam | 331 | 27 | 40 | 71 | 13 | 355 | 126 | 446 | 1409 |
| Pathanamthitta | 569 | 124 | 5 | 79 | 30 | 266 | 199 | 3194 | 4466 |
| A'appuzha | 2111 | 19 | 60 | 17088 | 23 | 1118 | 2544 | 3466 | 26429 |
| Kottayam | 2762 | 253 | 230 | 234 | 20 | 394 | 842 | 2658 | 7393 |
| Idukki | 525 | 66 | 32 | 179 | 9 | 28 | 210 | 2014 | 3063 |
| Eranakulam | 20905 | 137 | 300 | 1956 | 259 | 10630 | 8994 | 9773 | 52954 |
| Thrissur | 18152 | 758 | 586 | 10708 | 241 | 17244 | 4820 | 18781 | 71290 |
| Palakkad | 50018 | 224 | 245 | 5019 | 54 | 10405 | 1364 | 6586 | 73915 |
| Malappuram | 1212 | 951 | 81 | 4425 | 28 | 9708 | 2723 | 12933 | 32061 |
| Kozhikode | 2101 | 67 | 138 | 301 | 12 | 895 | 676 | 902 | 5092 |
| Wayanad | 85 | 77 | 10 | 23 | 5 | 16 | 50 | 4584 | 4850 |
| Kannur | 239 | 448 | 50 | 507 | 51 | 4415 | 38 | 8070 | 13818 |
| Kasaragode | 309 | 352 | 48 | 5155 | 21 | 9019 | 285 | 15554 | 30743 |
| Total | 102942 | 3745 | 2375 | 45919 | 778 | 64994 | 23495 | 90209 | 334457 |

APPENDIX - 5.6

GROSS AREA UNDER IRRIGATION (CROP-WISE) 1992-93

(In Hectares)

| Name of District | Paddy | Tubers | Vegetables | Coconut | Arecanut | Cloves & Nutmeg | Other Spices & Condiments | Bananas | Betal leaves | Sugarcane | Others | Total |
|--------------------|---------------|------------|-------------|---------------|--------------|-----------------|---------------------------|--------------|--------------|-------------|--------------|---------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
| Thiruvananthapuram | 4508 | 16 | 480 | 822 | 14 | 26 | 36 | 771 | 37 | --- | 773 | 7483 |
| Kollam | 897 | 19 | 243 | 330 | 8 | 9 | 8 | 81 | 29 | --- | 561 | 2185 |
| Pathanamthitta | 6536 | 7 | 207 | 130 | 32 | 16 | 7 | 169 | 53 | 54 | 32 | 7243 |
| Alappuzha | 5954 | 529 | 598 | 20051 | 263 | 66 | 471 | 89 | 46 | 45 | 2913 | 31025 |
| Kottayam | 9201 | 11 | 408 | 185 | 2 | 121 | 22 | 291 | 11 | 5 | 540 | 10797 |
| Idukki | 2098 | 2 | 2 | 33 | 1 | 15 | 179 | 2 | --- | 723 | 375 | 3430 |
| Eranakulam | 44393 | 6 | 250 | 13457 | 1024 | 594 | 64 | 1527 | 6 | --- | 525 | 61846 |
| Thrissur | 36508 | 47 | 320 | 31985 | 4460 | 74 | 344 | 1102 | 26 | --- | 690 | 75556 |
| Palakkad | 63622 | 11 | 728 | 6563 | 1921 | 14 | 338 | 1405 | 16 | 1273 | 2408 | 78299 |
| Malappuram | 20112 | 110 | 940 | 5696 | 3899 | 14 | 79 | 1908 | 478 | 8 | 565 | 34109 |
| Kozhikode | 1955 | 8 | 251 | 1248 | 244 | 4 | 1 | 815 | 9 | --- | 1013 | 5548 |
| Wayanad | 5567 | --- | 91 | 29 | 20 | --- | --- | 30 | --- | --- | 67 | 5804 |
| Kannur | 6196 | 30 | 622 | 6230 | 2916 | --- | --- | 1845 | 9 | 4 | 690 | 18542 |
| Kasaragod | 5029 | 26 | 919 | 18940 | 7591 | --- | 124 | 970 | 12 | --- | 890 | 34501 |
| Total | 212576 | 822 | 6059 | 105699 | 22395 | 953 | 1673 | 11005 | 732 | 2112 | 12342 | 376368 |

APPENDIX - 5.7

GROWTH OF KERALA POWER SYSTEM AT A GLANCE - 1993 AND 1994

| Sl. No. | Particulars | Position as on | |
|---------|--|----------------|-----------|
| | | 31-3-1993 | 31-3-1994 |
| 1. | Installed Capacity - M.W. | 1476.5 | 1484 |
| 2. | Maximum Demand - M.W. | | |
| | (a) System | 1302 | 1459.6 |
| | (b) Internal | 1403 | 1235.4 |
| 3. | Generation per Annum - M.U. | 6192.73 | 5822.25 |
| 4. | Import per Annum - M.U. | 1248.49 | 2035.97 |
| 5. | Export per Annum - M.U. | 186.77 | 15.99 |
| 6. | Energy Sales per Annum - M.U. | 5838.55 | 6285.00 |
| 7. | Energy losses of percentage of energy available for sale | 21 | 20.17 |
| 8. | Per Capita Consumption - KWH | 198 | 211 |
| 9. | 220 K.V. lines - CT. - KM. | 1167.22 | 1167.22 |
| 10. | 110 K.V. lines - CT. - KM. | 2347 | 2390 |
| 11. | 66 K.V. lines - CT. - KM. | 2549 | 2561 |
| 12. | 11 K.V. lines - CT. - KM. | 22556 | 23455 |
| 13. | L.T. lines - CT. - KM. | 114689 | 119935 |
| 14. | Step up Transformer Capacity - MVA | 1726 | 1726 |
| 15. | No of EHT Sub-Stations | 144 | 147 |
| 16. | Step down transformer Capacity - MVA | 5461.50 | 6083.50 |
| 17. | Distribution Transformer | | |
| | (a) Numbers | 19885 | 21141 |
| | (b) Capacity - MVA | 2384.109 | 2504.765 |
| 18. | Number of Villages Electrified | 1384 | 1384 |
| 19. | Number of Consumers (in lakhs) | 39.31 | 41.54 |
| 20. | Connected Load - MW | 6575.94 | 7561.88 |
| 21. | Number of Street lights | 568709 | 584273 |
| 22. | Number of Irrigation Pumps | 260433 | 271192 |
| 23. | Total Revenue per Annum (Rs. lakhs) | 43875.28 | 54064.77 |

APPENDIX - 5.8

POWER PROJECTS AND POWER GENERATION AS ON 31-3-1994

| Sl. No. | Name of Projects and Districts | Installed capacity (MW) | Energy potential (MU) | Units generated during 1993-94 (MU) |
|---------|--------------------------------|-------------------------|-----------------------|-------------------------------------|
| 1. | Pallivasal (Idukki) | 375 | 254 | 251.4739 |
| 2. | Sengulam (Idukki) | 48 | 182 | 165.2910 |
| 3. | Neriamangalam (Idukki) | 45 | 237 | 265.020 |
| 4. | Panniar (Idukki) | 30 | 158 | 100.8752 |
| 5. | Peringalkuthu (Thrissur) | 32 | 170 | 192.0903 |
| 6. | Sabaringiri (Pathanamthitta) | 300 | 1338 | 1433.1500 |
| 7. | Sholayar (Thrissur) | 54 | 233 | 177.6617 |
| 8. | Kuttiyady (Wayanad) | 75 | 268 | 266.1135 |
| 9. | Idukki (Idukki) | 780 | 2398 | 2579.595 |
| 10. | Idamalayar (Ernakulam) | 75 | 380 | 386.7020 |
| 11. | Kallada - Mini (Kollam) | 7.5 | 32.5 | 4.274 |
| Total | | 1484.00 | 5680.50 | 5822.2556 |

APPENDIX - 5.9

DETAILS OF COST EXPENDITURE, POTENTIAL - EXPECTED YEAR OF COMMISSIONING OF HYDRO-ELECTIC PROJECTS IN KERALA - 1994

| Sl. No. | Name of Project | Year of starting | Original estimated cost (Rs. in lakhs) | Latest Revised Estimate (Rs. in lakhs) | Expenditure till the end of 3/94 (Rs. in lakhs) | Expected year of commissioning | % increase of Revised Estimate over the original estimate | Energy potential (MU) |
|---------|------------------------------|------------------|--|--|---|--------------------------------|---|-----------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1. | Kakkad | 1976 | 1860 | 10935 | 8185 | 1995-96 | 488 | 262 |
| 2. | Kallada | 1981 | 1180 | 1802 | 1567 | 1993-94 | 53 | 53 |
| 3. | Lower Periyar | 1983 | 8843 | 27300 | 15167 | 1995-96 | 208 | 493 |
| 4. | Malampuzha | 1987 | 295 | 486 | 352 | 1994-95 | 64 | 5.6 |
| 5. | Madupetty | 1987 | 292 | 453 | 386 | 1995-96 | 55 | 6.4 |
| 6. | Peppara | 1987 | 393 | 580 | 376 | 1994-95 | 47 | 11.5 |
| 7. | Malankara | 1987 | 780 | 1665 | 90 | 1996-97 | 113 | 36 |
| 8. | Pooyankutty Stage I | 1985 | 25000 | 59000 | 533 | 2003-2004 | 136 | 645 |
| 9. | Azhutha Diversion | 1988 | 370 | 784 | 479 | 1995-96 | 111 | 57 |
| 10. | Kuttiady Tailrace | 1989 | 214 | 660 | 591 | 1995-96 | 208 | 36.6 |
| 11. | Vadakkepuzha Diversion | 1989 | 131 | 160 | --- | 1996-97 | 22 | 12 |
| 12. | Vazhikkadavu Diversion | 1989 | 185 | 419 | --- | 1996-97 | 126 | 24 |
| 13. | Peringalkuthy L.B. Extension | 1989 | 902 | 2334 | 955 | 1996-97 | 158 | 38 |
| 14. | Kuttiar Diversion | 1992 | 214 | 496 | 171 | 1996-97 | 131 | 37 |
| 15. | Kuttiady Extension | 1994 | 3073 | 3073 | --- | 1996-97 | --- | 38 |

APPENDIX - 5.10

OUTLAY AND EXPENDITURE DURING VARIOUS PLAN PERIODS ON POWER DEVELOPMENT

| Plan Period | Power Development | | | |
|----------------------------------|-------------------|------------|-------------|-------------------------|
| | Outlay | % of total | Expenditure | Expenditure as % Outlay |
| (1) | (2) | (3) | (4) | (5) |
| First Plan (1951-56) | 1185 | 39.5 | 1060 | 89.5 |
| Second Plan (1956-61) | 2345 | 26.9 | 2192 | 93.5 |
| Third Plan (1961-66) | 4356 | 25.6 | 6084 | 139.7 |
| Annual Plan (1966-67 to 1968-69) | 4691 | 32.9 | 4195 | 89.4 |
| Fourth Plan (1969-74) | 7625 | 10.5 | 10740 | 140.9 |
| Fifth Plan (1974-79 to 1979-80) | 12990 | 22.8 | 11057 | 85.1 |
| Annual Plan (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 |
| Total - I Plan to VII Plan | 113708 | 21.3 | 116478 | 102.4 |
| 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 | 19868 | 107.40 |
| Annual Plan (1993-94) | 20900 | 20.9 | 25607 | 122.50 |
| Annual Plan (1994-95) | 30700 | 24.3 | --- | --- |

APPENDIX - 5.11

PATTERN OF POWER CONSUMPTION AND REVENUE COLLECTED DURING 1993-94

| Sl. No. | Category | No. of Consumers on 31-3-94 | Connected load as on 31-3-1994 (MW) | Energy sold (MU) | Consumption as percentage to total | Revenue collected (Rs. in lakhs) | Revent. as % to total |
|---------|---|-----------------------------|-------------------------------------|------------------|------------------------------------|----------------------------------|-----------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1. | Domestic lights, heat and small power | 31,21,844 | 21,19,920 | 2068 | 32.90 | 11902.90 | 22.02 |
| 2. | Commercial lights, fans, heat and power | 8,83,876 | 4,66,690 | 836 | 13.30 | 10110.90 | 18.70 |
| 3. | Industrial (Low and Medium Voltage) | 73,859 | 10,28,720 | 496 | 7.89 | 4955.30 | 9.17 |
| 4. | Industrial (High and Extra High Voltage) | 1,182 | 33,27,890 | 2268 | 36.09 | 20397.74 | 37.73 |
| 5. | Irrigation | 2,71,198 | 5,37,150 | 261 | 4.15 | 692.80 | 1.28 |
| 6. | Public lighting | 1,398 | 30,970 | 115 | 1.83 | 1110.30 | 2.05 |
| 7. | Water Works and Sewerage | 1,164 | 28,910 | 116 | 1.85 | 1140.18 | 2.11 |
| 8. | Bulk Supply to licencees | 7 | 21,730 | 125 | 1.99 | 839.12 | 1.55 |
| 9. | Miscellaneous (Outside State Supply and other miscellaneous receipts) | --- | --- | --- | --- | 2915.41 | 5.39 |
| | Total | 41,54,504 | 75,61,880 | 6,285 | 100 | 54064.77 | 100 |

APPENDIX - 5.12

AVERAGE REALISATION FROM SALE OF POWER

| Consumer Category | Average realisation in paise per unit | |
|---------------------------|---------------------------------------|--------------|
| | 1992-93 | 1993-94 |
| Domestic | 54.55 | 57.56 |
| Commercial | 105.50 | 120.50 |
| Public lighting | 95.01 | 96.52 |
| Irrigation and Dewatering | 25.11 | 26.55 |
| Public works | 90.40 | 98.28 |
| Industrial (a) LT | 90.34 | 99.90 |
| (b) HT & EHT | 80.95 | 89.94 |
| Bulk Supply | 62.56 | 67.12 |
| Outside Supplies | 73.22 | --- |
| Total | 73.95 | 81.38 |

APPENDIX 6.1

Index of Industrial Production (Base : 1980-81=100)

| Sl. No. | Item | Weight | Index for 1991-92 | Index for 1992-93 |
|---------|--|--------|-------------------|-------------------|
| (1) | (2) | (3) | (4) | (5) |
| 1. | General Index | 100 | 216.21 | 217.31 |
| 2. | Manufacture of Food Products | 8.82 | 123.92 | 156.61 |
| 3. | Manufacture of Beverages, Tobacco and Related Products | 1.46 | 52.07 | 76.59 |
| 4. | Manufacture of Cotton Textiles | 8.02 | 180.12 | 151.03 |
| 5. | Manufacture of wool, silk and man-made fibre textiles | 1.26 | 113.57 | 131.82 |
| 6. | Manufacture of Textile Products | 3.26 | 92.28 | 87.94 |
| 7. | Manufacture of wood and wood products | 1.35 | 99.09 | 106.93 |
| 8. | Manufacture of paper and paper products | 3.16 | 1275.14 | 1190.92 |
| 9. | Manufacture of basic Chemicals and Chemical products (except products of petroleum and coal) | 19.78 | 175.02 | 177.04 |
| 10. | Manufacture of Rubber, Plastic, Petroleum and Coal Products and Processing of Nuclear Fuels | 10.06 | 146.05 | 150.03 |
| 1. | Manufacture of non-metallic mineral products | 3.42 | 107.52 | 117.70 |
| 2. | Manufacture of Basic Metal and Alloys Industries | 3.43 | 183.46 | 157.10 |
| 3. | Manufacture of Metal Products and Parts except Machinery and Equipment | 0.50 | 240.31 | 186.47 |
| 4. | Manufacture of Machinery and Equipment other than Transport Equipment | 9.46 | 607.36 | 593.92 |
| 5. | Manufacture of Transport Equipment and Parts | 2.67 | 31.70 | 36.48 |
| 6. | Other Manufacturing Industries | 1.42 | 21.08 | 11.37 |
| 7. | Electricity Generation, Transmission and Distribution | 21.93 | 113.64 | 131.71 |

APPENDIX 6.2

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 31-3-1993 | As on 31-3-1994 | As on 31-3-1993 | As on 31-3-1994 |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Autokast Ltd. | 4822.46 | 5255.44 | 543 | 543 |
| 2. | Foam Mattings (India) Ltd. | 219.49 | 280.09 | 118 | 145 |
| 3. | Kerala Automobiles Ltd. | 1212.00 | 1287.00 | 399 | 412 |
| 4. | Kerala Clays and Ceramic Products Ltd. | 55.28 | 156.79 | 393 | 487 |
| 5. | Kerala Electrical and Allied Engineering Company Ltd. | 2909.18 | 3651.13 | 1204 | 1440 |
| 6. | Kerala Hitech Industries Ltd. | 3070.47 | 3585.70 | 116 | 179 |
| 7. | Kerala Soaps and Oils Ltd. | N.A. | N.A. | N.A. | N.A. |
| 8. | Kerala Special Refractories Ltd. | 398.23 | 398.23 | 9 | 9 |
| 9. | Kerala State Drugs and Pharmaceuticals Ltd. | 2722.33 | 2904.63 | 537 | 538 |
| 10. | Kerala State Detergents and Chemicals Ltd. | 1424.02 | N.A. | 277 | N.A. |
| 11. | Kerala State Salicylates and Chemicals Ltd. | 2289.68 | N.A. | 125 | N.A. |
| 12. | Malabar Cements Ltd. | 5476.62 | 5139.65 | 1062 | 1066 |
| 13. | Scooters Kerala Ltd. | 389.05 | 403.57 | 100 | 100 |
| 14. | Sitaram Textiles Ltd. | 1370.48 | 1542.37 | 682 | 685 |
| 15. | Steel and Industrial Forgings Ltd. | 1543.00 | 1540.00 | 262 | 262 |
| 16. | Steel Industrials Kerala Ltd. | 2933.40 | 3033.40 | 419 | 424 |
| 17. | The Kerala Ceramics Ltd. | 1734.20 | 1453.69 | 531 | 505 |
| 18. | The Kerala Minerals and Metals Ltd. | 17875.37 | 13009.66 | 1139 | 1463 |
| 19. | Travancore Plywood Industries Ltd. | 238.94 | N.A. | 560 | N.A. |
| 20. | Trivandrum Spinning Mills Ltd. | 645.22 | 601.80 | 465 | 451 |

APPENDIX 6.3

Performance of Government Owned Companies in Kerala in terms of Production and Sales Turn Over, 1992-93 and 1993-94

(Rs. lakhs)

| Sl. No. | Name of Company | Value of Production | | Sales Turn Over | |
|---------|---|------------------------|----------|-----------------|----------|
| | | 1992-93 | 1993-94 | 1992-93 | 1993-94 |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Auto Kast Ltd. | 664.13 | 497.73 | 657.19 | 525.46 |
| 2. | Foam Mattings (India) Ltd. | 154.90 | 203.80 | 202.17 | 358.11 |
| 3. | Kerala Automobiles Ltd. | 994.39 | 1345.00 | 831.79 | 1340.46 |
| 4. | Kerala Clays and Ceramic Products Ltd. | 124.78 | 138.75 | 140.78 | 168.07 |
| 5. | Kerala Electrical and Allied Engineering Company Ltd. | 3908.84 | 4137.92 | 3768.50 | 4260.89 |
| 6. | Kerala Hitech Industries Ltd. | Production not started | | | |
| 7. | Kerala Soaps and Oils Ltd. | 470.00 | N.A. | 523.00 | N.A. |
| 8. | Kerala Special Refractories Ltd | Production not started | | | |
| 9. | Kerala State Drugs and Pharmaceuticals Ltd. | 1246.69 | 1001.65 | 1271.21 | 1879.12 |
| 10. | Kerala State Detergents and Chemicals Ltd. | 61.75 | NA | 83.23 | N.A. |
| 11. | Kerala State Salicylates and Chemicals Ltd. | --- | N.A. | 4.66 | N.A. |
| 12. | Malabar Cements Ltd. | 6055.23 | 6678.31 | 7432.12 | 8329.77 |
| 13. | Scooters Kerala Ltd. | 119.42 | 51.67 | 134.51 | 56.06 |
| 14. | Sitaram Textiles Ltd. | 1276.10 | 1355.00 | 1047.94 | 1150.54 |
| 15. | Steel and Industrial forgings Ltd. | 834.00 | 877.00 | 793.97 | 913.28 |
| 16. | Steel Industrials Kerala Ltd. | 630.26 | 690.00 | 1478.05 | 1674.33 |
| 17. | The Kerala Ceramics Ltd | 615.44 | 589.71 | 547.77 | 524.84 |
| 18. | The Kerala Minerals and Metals Ltd. | 8546.00 | 11312.47 | 8649.88 | 12658.86 |
| 19. | Travancore Plywood Industries Ltd. | 61.75 | N.A. | 83.23 | N.A. |
| 20. | Trivandrum Spinning Mills Ltd. | 507.54 | 318.74 | 419.70 | 449.69 |

APPENDIX 6.4

Production and Capacity utilisation of Government Owned Companies in Kerala during 1992-93 and 1993-94

| Sl. No. | Name of company | Name of Products | Unit | Installed capacity as on | | Production during | | Capacity Utilisaton (%) | |
|---------|---|----------------------------------|------------------------|--------------------------|-----------|-------------------|----------|-------------------------|------------------------|
| | | | | 31-3-1993 | 31-3-1994 | 1992-93 | 1993-94 | 1992-93 | 1993-94 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Autokast Ltd. | Castings | MT | 18,000 | 18,000 | 3075 | 2517 | 17.1 | 14.0 |
| 2. | Foam Mattings (India) Ltd | (i) Bare Mattings | m ² | 4,75,000 | 4,75,000 | 1,05,000 | 1,22,000 | 22.1 | 25.7 |
| | | (ii) Latex Backing | m ² | 12,00,000 | 12,00,000 | 5,03,000 | 7,13,000 | 41.9 | 59.4 |
| 3. | Kerala Automobiles Ltd. | Three Wheeler | Nos. | 5,400 | 5,400 | 1,875 | 3,243 | 34.7 | 60.1 |
| 4. | Kerala Clays and Ceramic Products Ltd. | (i) China Clay | M.T. | --- | --- | 11,353 | 11,371 | --- | --- |
| | | (ii) Bricks | Nos. | --- | --- | 26,520 | 5,000 | --- | --- |
| | | (iii) Laterite | | | | 1,248 | 5,365 | --- | --- |
| 5. | Kerala Electrical and Allied Engineering Company Ltd. | (i) Distribution Transformers | KVA | 1,20,000 | 1,20,000 | 2,15,111 | 1,63,518 | 179.3 | 136.3 |
| | | (ii) Galvanised Structure | M.T | 2,500 | 2,500 | --- | --- | --- | --- |
| | | (iii) HRC Fuses | Nos. | 1,20,000 | 1,20,000 | --- | --- | --- | --- |
| | | (iv) Steel Structures | MT | 1,200 | 1,200 | 189.00 | 196.70 | 15.8 | 16.4 |
| | | (v) Cast Iron Specials | MT | 1,500 | 1,500 | 725.00 | 691.31 | 48.3 | 46.1 |
| | | (vi) Alternators (TL) | Nos. | 3,000 | 3,000 | 1,421 | 1,241 | 47.4 | 41.4 |
| | | (vii) Wiring Accessories | Nos. | 1,33,000 | 1,33,000 | 2,13,898 | 4,08,850 | 160.8 | 307.4 |
| | | (viii) Alternators (GP) & Genset | Nos. | 3,000 | 3,000 | 572 | 508 | 19.1 | 16.9 |
| | | (ix) Project | Rs. lakhs | --- | --- | 101.82 | 158.00 | --- | --- |
| 6. | Kerala Hitech Industries Ltd. | (i) Rocket Motor cases | Nos. | --- | 12 | | | | |
| | | (ii) Titanium Alloy | Nos. | --- | 60 | | | | |
| | | (iii) Liquid Engine | Nos. | --- | 3 | | | | |
| | | (iv) Control system components | Sets | --- | 2 | | | | |
| | | (v) Aero space | Lot work Rs. crores | --- | 1 | | | | Production not started |
| | | (vi) Turbo jet Air Craft Engine | Nos | --- | 3 | | | | |

| | | | | | | | | | | |
|---|--------|---|---|----------|----------|-----------|-----------|--------|-------|--|
| 7. Kerala Soaps and Oils Ltd. | | | Existing as a defunct unit | | | | | | | |
| 8. Kerala Special Refractories Ltd. | | | Project implementation at a stand still for various reasons | | | | | | | |
| 9. Kerala State Drugs and Pharmaceuticals Ltd. | (i) | Tablets | Lakh Nos | 2514.00 | 2514.00 | 2143.45 | 2458.94 | 85.3 | 101.4 | |
| | (ii) | Capsules | Lakh Nos | 149.00 | 149.00 | 79.49 | 87.00 | 53.3 | 58.4 | |
| | (iii) | Powders | Lakh Packets | — | — | — | 3.54 | — | — | |
| | (iv) | Liquids | Lakh litres | 2.25 | 2.25 | 2.07 | 1.00 | 92.0 | 44.4 | |
| | (v) | Transfurious | Lakh Nos. | 4.50 | 4.50 | 7.83 | 6.11 | 174.00 | 137.8 | |
| | (vi) | Vials | Lakh Nos | 15.00 | 15.00 | 8.21 | 7.34 | 54.7 | 48.9 | |
| | (vii) | Ampules | Lakh Nos. | 60.00 | 60.00 | 23.87 | 38.72 | 38.8 | 64.5 | |
| | (viii) | Vitamin A | MMU | 30.00 | 30.00 | 12.88 | 6.86 | 42.90 | 22.90 | |
| 10. Kerala State Detergents and Chemicals Ltd. | (i) | Detergent cake/Bar | MT | 7,200 | N.A. | 9 | NA | 0.1 | — | |
| | (ii) | S.L.D. Powder | MT | 10,800 | NA | Nil | NA | — | — | |
| | (iii) | High Density Powder | MT | 1,800 | NA | 3 | NA | 0.2 | — | |
| 11. Kerala State Salicylates and Chemicals Ltd. | (i) | Salicylates | MT | 1,000 | NA | Nil | NA | — | — | |
| | (ii) | Aspirin | MT | 1,000 | NA | Nil | NA | — | — | |
| | (iii) | Sodium Salicylates | MT | NA | NA | NA | NA | — | — | |
| 12. Malabar Cements Ltd. | | Cement | MT | 4,20,000 | 4,20,000 | 3,58,992 | 3,84,448 | 85.5 | 91.5 | |
| 13. Scooters Kerala Ltd. | | Sheet Metal Products | Rs. lakhs | — | — | 119.42 | 51.67 | — | — | |
| 14. Sitaram Textiles Ltd. | (i) | Yam | Spindles | 16,304 | 16,304 | 11.50 | 10.70 | — | — | |
| | | | | | | lakh kgs. | lakh kgs. | | | |
| | (ii) | Fabrics | Metres/day | 26,000 | 26,000 | 43,50,000 | 42,04,000 | 45.8 | 44.3 | |
| | (iii) | Grey cloth | Looms | 336 | 336 | Nil | Nil | — | — | |
| 15. Steel and Industrial Forgings Ltd. | | Carbon and Alloy Forgings | MT | 7,500 | 7,500 | 2208 | 2,439 | 29.4 | 32.5 | |
| 16. Steel Industrials, Kerala Ltd. | (i) | Structural Fabrication | MT | 3,000 | 3,000 | 977 | 1,040 | 82.6 | 34.7 | |
| | (ii) | Generation of Scrap by breaking old ships (Not planned for 1993-94) | MT | 16,000 | 16,000 | 647 | 530 | 4.0 | 3.3 | |
| | (iii) | Cast Iron Specials | MT | 1,200 | 1,200 | 738 | 689 | 61.5 | 57.4 | |
| 17. The Kerala Ceramics Ltd. | (i) | China Clay Powder | MT | 18,000 | 18,000 | 10,208.5 | 9,450 | 56.7 | 52.5 | |
| | (ii) | Porcelain Wares | MT | 595 | 595 | 535 | 512.6 | 89.9 | 86.2 | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------------------------------|----------------------|-----------------|--------|--------|----------|----------|------|------|
| 18. | The Kerala Minerals and Metals Ltd. | (i) Tio ₂ | MT | 22,000 | 22,000 | 11,412 | 14,707 | 51.9 | 66.9 |
| | | (ii) Ilmenite | MT | 25,000 | 25,000 | 6,426 | 12,038 | 25.7 | 48.2 |
| | | (iii) Rutile | MT | 2,400 | 2,400 | 3,57 | 765 | 14.9 | 31.9 |
| | | (iv) Zircon | MT | 1,500 | 1,500 | Nil | Nil | --- | --- |
| | | (v) Leucoxene | MT | 300 | 300 | Nil | Nil | --- | --- |
| | | (vi) Monozite | MT | 240 | 240 | Nil | Nil | --- | --- |
| 19. | Travancore Plywood Industries Ltd. | Plywood (4 mm base) | Lakh Sq. metres | 27.38 | N.A. | 1.02 | NA | 3.7 | --- |
| 20. | Trivandrum Spinning Mills Ltd. | Cotton Yarn | Spindles | 25,200 | 25,200 | 675 | 417 | --- | --- |
| | | | Double Spindles | 800 | 800 | lakh kgs | lakh kgs | | |

APPENDIX 6.5

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 31-3-1993 | As on 31-3-1994 | As on 31-3-1993 | As on 31-3-1994 |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Forest Industries (Travancore) Ltd. | 89.19 | 88.98 | 122 | 122 |
| 2. | Keltron Component Complex Ltd. | 1831.43 | 1914.00 | 366 | 366 |
| 3. | Keltron Counters Ltd. | 960.99 | 1063.89 | 308 | 308 |
| 4. | Keltron Crystals Ltd. | 366.57 | 364.09 | 127 | 127 |
| 5. | Keltron Electroceramics Ltd. | 512.40 | NA | 103 | NA |
| 6. | Keltron Magnetics Ltd. | 94.02 | 104.18 | 33 | 33 |
| 7. | Keltron Power Devices Ltd. | 1560.92 | 1792.69 | 150 | 150 |
| 8. | Keltron Rectifiers Ltd. | 1009.53 | 1128.73 | 130 | 130 |
| 9. | Keltron Resistors Ltd. | 290.64 | 278.74 | 49 | NA |
| 10. | Kerala Construction Components Ltd. | 70.38 | NA | 95 | 95 |
| 11. | SIDKEL Televisions Ltd. | 82.47 | NA | 64 | NA |
| 12. | Steel Complex Ltd. | 481.22 | NA | 615 | 615 |
| 13. | The Chalakudy Refractories Ltd. | 616.91 | NA | 117 | NA |
| 14. | The Metal Industries Ltd. | 63.66 | 65.01 | 121 | 126 |
| 15. | The Metropolitan Engineering Company Ltd. | 507.07 | 505.67 | 151 | 149 |
| 16. | The Travancore Cements Ltd. | 50.00 | NA | 538 | NA |
| 17. | The Travancore Cochin Chemicals Ltd. | 831.69 | 1331.44 | 1152 | 1169 |
| 18. | Travancore Titanium Products Ltd. | 176.75 | 176.75 | 1349 | 1374 |
| 19. | Traco Cable Company Ltd. | 4989.52 | 5287.61 | 233 | 430 |
| 20. | The Travancore Sugars and Chemicals Ltd. | 51.00 | NA | 496 | NA |
| 21. | Transformers and Electricals Kerala Ltd. | 5567.98 | 5261.14 | 1621 | 1659 |
| 22. | United Electrical Industries Ltd. | 402.08 | 402.08 | 494 | 497 |
| 23. | Astral Watches Ltd. | 56.65 | 62.54 | 107 | 107 |
| 24. | Kerala Garments Ltd. | 49.82 | NA | 324 | NA |

APPENDIX 6.6

Performance of Government Majority Companies in terms of Value of Production and Sales Turn Over during 1992-93 and 1993-94

| Sl. No. | Name of Company | (Rs. lakhs) | | | |
|---------|---|---------------------|---------|----------------|---------|
| | | Value of Production | | Sales Turnover | |
| | | 1992-93 | 1993-94 | 1992-93 | 1993-94 |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Forest Industries (Travancore) Ltd. | 93.05 | 81.06 | 185.00 | 165.00 |
| 2. | Keltron Component Complex Ltd. | 1969.05 | 2143.25 | 2181.68 | 2563.13 |
| 3. | Keltron Counters Ltd. | 250.00 | 338.86 | 313.27 | 360.26 |
| 4. | Keltron Crystals Ltd. | 237.18 | 149.03 | 300.48 | 187.17 |
| 5. | Keltron Electro Ceramics Ltd. | 328.58 | NA | 412.01 | NA |
| 6. | Keltron Magnetics Ltd. | 50.41 | 22.98 | 59.47 | 28.38 |
| 7. | Keltron Power Devices Ltd. | 52.44 | 92.94 | 46.98 | 66.25 |
| 8. | Keltron Rectifiers Ltd. | 111.94 | 174.90 | 131.62 | 200.94 |
| 9. | Keltron Resistors Ltd. | 128.19 | 141.49 | 169.55 | 175.13 |
| 10. | Kerala Construction Components Ltd. | 71.93 | 81.29 | 81.35 | 87.86 |
| 11. | SIDKEL Televisions Ltd. | 46.82 | Nil | 45.66 | NA |
| 12. | Steel Complex Ltd. | 3503.86 | Nil | 3477.91 | 294.57 |
| 13. | The Chalakudy Refractories Ltd. | 7.80 | NA | 12.68 | NA |
| 14. | The Metal Industries Ltd. | 122.48 | 138.00 | 119.36 | 143.59 |
| 15. | The Metropolitan Engineering Company Ltd. | 157.60 | 159.28 | 187.35 | 161.94 |
| 16. | The Travancore Cements Ltd. | 2138.00 | NA | 2094.70 | NA |
| 17. | The Travancore Cochin Chemicals Ltd. | 6847.00 | 7032.00 | 6351.90 | 6977.93 |
| 18. | Travancore Titanium Products Ltd. | 5497.00 | 4016.00 | 5410.72 | 3953.50 |
| 19. | Traco Cable Company Ltd. | 4193.12 | 4857.00 | 4320.46 | 5851.88 |
| 20. | The Travancore Sugars and Chemicals Ltd. | 581.58 | NA | 611.10 | NA |
| 21. | Transformers and Electricals kerala Ltd. | 7068.37 | 7366.29 | 7397.00 | 7376.29 |
| 22. | United Electrical Industries Ltd. | 709.92 | 819.70 | 745.96 | 784.65 |
| 23. | Astral Watches Ltd. | 74.24 | 32.10 | 30.29 | 10.08 |
| 24. | Kerala Garments Ltd. | 82.95 | NA | 79.20 | NA |

Production and Capacity Utilisation of Government Majority Companies in Kerala during 1992-93 and 1993-94

| Sl. No. | Name of company | Name of Products | Unit | Installed capacity as on | | Production during | | Capacity Utilisation (%) | |
|---------|-------------------------------------|--|----------------|--------------------------|-----------|-------------------|----------|--------------------------|---------|
| | | | | 31-3-1993 | 31-3-1994 | 1992-93 | 1993-94 | 1992-93 | 1993-94 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Fores. Industries (Travancore) Ltd. | Wooden Furniture and Joiners | m ² | 1,500 | 1,500 | 1,017 | 783 | 67.8 | 52.2 |
| 2. | Keltron Component Complex Ltd. | Aluminium Electrolytic Capacitors | Million Nos. | 150 | 160 | 71 | 99 | 47.3 | 66.0 |
| 3. | Keltron Counters Ltd. | Counting Devices | Lakh Nos. | 10 | 10 | 0.25 | 0.32 | 2.5 | 3.2 |
| 4. | Keltron Crystals Ltd. | (i) Communication Crystals and Watch Crystals | '000 Nos. | 2,120 | 2,120 | 515.10 | 324.50 | 24.3 | 15.3 |
| | | (ii) Digital Watches | '000 Nos. | 200 | 45 | 1.00 | 0.25 | 0.5 | 0.6 |
| 5. | Keltron Electro Ceramics Ltd. | (i) Ceramic Capacitors | Million | | | | | | |
| | | (ii) Thermistors | pieces | 80 | NA | 68 | NA | 85.0 | -- |
| | | (iii) Transducers | Nos. | | | | | | |
| 6. | Keltron Magnetics Ltd. | (i) Servo Controlled Voltage stabilisers | Nos. | 2000 | 5000 | 517 | 367 | 25.9 | 7.3 |
| | | (ii) Colour TV Delay Lines | Nos. | 27,50,000 | 27,50,000 | 925 | Nil | 0.03 | -- |
| | | (iii) UPS | Nos. | 160 | 100 | 22 | 4 | 22.0 | 4.0 |
| 7. | Keltron Power Devices Ltd. | Silicon Power Transistors | Nos. | 10,00,000 | 10,00,000 | 3,26,674 | 3,28,044 | 32.7 | 32.8 |
| 8. | Keltron Rectifiers Ltd. | (i) Silicon Power Diodes, Bridges, Stacks and Heat Sinks | Nos. | 13,00,000 | 13,00,000 | 1,87,520 | 4,24,032 | 14.4 | 32.6 |
| | | (ii) Equipments | Nos. | -- | -- | 202 | Nil | -- | -- |
| 9. | Keltron Resistors Ltd. | Carbon Film and Metal Film Resistors | Million Nos. | 142 | 142 | 75.74 | 90.57 | 53.1 | 63.8 |
| 10. | Kerala Construction Components Ltd. | Sand lime bricks/Fly Ash Bricks | Lakh Nos. | 120 | 120 | 86.24 | 88.28 | 71.9 | 73.6 |
| 11. | SIDKEL Televisions Ltd. | (i) Black & White Television | Nos. | 10,000 | NA | 297 | NA | 3.0 | -- |
| | | (ii) Colour Television | Nos. | 10,000 | NA | 23 | NA | 0.2 | -- |
| | | (iii) U.G.P. | Nos. | 1,000 | NA | 654 | NA | 65.4 | -- |
| | | (iv) OWR/OR | Nos. | 1,000 | NA | 931 | NA | 93.1 | -- |
| | | (v) LR | Nos. | 4,000 | NA | 1750 | NA | 43.8 | -- |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|---|--|-------|--------------------|----------|-----------|----------|-------|-------|
| 12. | Steel Complex Ltd | Steel Billet | MT | 50,000 | 50,000 | 28,044 | Nil | 56.1 | --- |
| 13. | The Chalakudy Refractories Ltd. | Refractory Item | MT | 2,400 | NA | 312 | NA | 13.0 | |
| 14. | The Metal Industries Ltd. | Agricultural Implements | MT | 218 | 218 | 340 | 388 | 118.1 | 178.0 |
| 15. | The Metropolitan Engineering Company Ltd. | (i) HV Switches | Nos | 8,500 | 7,200 | 7,600 | 265 | 89.4 | 3.7 |
| | | (ii) LT/CT | Nos. | 60,250 | 48,000 | 31,434 | Nil | 52.2 | --- |
| 16. | The Travancore Cements Ltd. | (i) White Cement | MT | 30,000 | NA | 34,029 | NA | 113.4 | --- |
| | | (ii) Cement Paint | MT | 1,050 | NA | 1,554 | NA | 148.0 | --- |
| 17. | The Travancore Cochin Chemicals Ltd. | (i) Caustic Soda | MT | 52,800 | 52,800 | 49,530 | 51,387 | 93.8 | 97.3 |
| | | (ii) Chlorin | MT | 46,464 | 46,464 | 43,586 | 45,221 | 93.8 | 97.3 |
| 18. | Travancore Titanium Products Ltd. | Titanium Dioxide | MT | 24,500 | 24,500 | 12,934 | 9,448 | 52.8 | 38.6 |
| 19. | Traco Cable Company Ltd. | (i) AAC and ACSR | MT | 1,500 | 1,500 | 574.96 | 952.59 | 38.3 | 63.5 |
| | | (ii) PVC Covered Conductors and Bare Copper Conductors | M.CM | 32.92 | 32.92 | 17.66 | 2.10 | 53.6 | 6.4 |
| | | (iii) Jelly filled Telephone Cable | LKM | 5,000 | 5,000 | 4541.78 | 3543.63 | 90.8 | 70.9 |
| 20. | The Travancore Sugars and Chemicals Ltd. | (i) Sugar | MT | 900 | N.A | 874 | NA | 46.9 | --- |
| | | | | Tonnes of cane/day | | | | | |
| | | (ii) Spirit Proof | Litre | 46,53,000 | NA | 17,05,209 | NA | 36.6 | |
| | | (iii) Arrack | Litre | --- | NA | 39,53,293 | NA | --- | |
| | | (iv) Fine Liquor | Litre | --- | NA | 6,750 | NA | --- | |
| 21. | Transformers and Electricals Kerala Ltd. | (i) Power Transformers | MVA | 4,500 | 4,500 | 3,409 | 3,086 | 75.8 | 68.6 |
| | | (ii) Current and Potential Transformers | Nos. | 1,000 | 1,000 | 548 | 517 | 54.8 | 51.7 |
| | | (iii) Gas circuit breakers | Nos. | 100 | 100 | 22 | 22 | 22.0 | 22.0 |
| 22. | United Electrical Industries Ltd. | (i) KWH Meters | Nos. | 3,00,000 | 3,00,000 | 2,83,560 | 2,67,679 | 94.5 | 89.2 |
| | | (ii) Motor Starters | Nos. | 4,500 | 4,500 | 879 | 927 | 19.5 | 20.6 |
| 23. | Astral Watches Ltd. | (i) Assembling of Wrist Watches | Nos. | 5,00,000 | 2,50,000 | 4,20,000 | NA | 84.0 | --- |
| | | (ii) Tapedeck Mechanism | Nos. | 60,000 | NA | 14,000 | NA | 23.3 | --- |
| 24. | Kerala Garments Ltd. | Garments | Nos. | 3,60,000 | NA | 1,44,311 | NA | 48.1 | --- |

Group-wise and Unit-wise Working Results of State Public Sector Industrial Undertakings

(Rs. lakhs)

| Sl. No. | Group/Name of Company | Paid up Capital as on | | Total borrowings as on | | Gross Block as on | | Total income during 1993-94 | Total Expenditure during 1993-94 | Profit earned during 1993-94 | | Net loss during 1993-94 | Accumulated Loss as on 31-3-94 |
|---|---|-----------------------|---------|------------------------|----------|-------------------|----------|-----------------------------|----------------------------------|------------------------------|------------|-------------------------|--------------------------------|
| | | 31-3-93 | 31-3-94 | 31-3-93 | 31-3-94 | 31-3-93 | 31-3-94 | | | Operating Profit | Net Profit | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| I. Modern Manufacturing Industries | | | | | | | | | | | | | |
| (a) Electronics | | | | | | | | | | | | | |
| 1. | Kerala State Electronics Development Corporation Ltd. | 8222.38 | 8222.38 | 11753.56 | 13108.07 | 3230.08 | 3290.60 | 13857.71 | 13751.06 | 106.65 | 106.65 | --- | 6722.63 |
| 2. | Keltron Counters Ltd. | 393.90 | 393.90 | 567.09 | 669.99 | 127.11 | 127.16 | 380.06 | 493.57 | --- | --- | 113.51 | 1003.24 |
| 3. | Keltron Crystals Ltd. | 133.98 | 133.98 | 256.59 | 253.37 | 269.21 | 269.27 | 197.49 | 246.76 | --- | --- | 49.27 | 79.44 |
| 4. | Keltron Magnetics Ltd. | 25.09 | 25.09 | 89.73 | 102.23 | 50.02 | 43.77 | 39.69 | 62.41 | --- | --- | 22.72 | 66.72 |
| 5. | Keltron Resistors Ltd. | 139.81 | 139.81 | 172.60 | 151.12 | 110.10 | 110.14 | 183.65 | 170.98 | 12.67 | 12.67 | --- | 163.73 |
| 6. | keltron Power Devices Ltd. | 410.23 | 410.23 | 1150.72 | 1382.46 | 344.70 | 344.70 | 66.94 | 350.36 | --- | --- | 283.42 | 1836.90 |
| 7. | Keltron Rectifiers Ltd. | 274.36 | 274.36 | 839.41 | 966.58 | 304.85 | 304.85 | 195.75 | 332.12 | --- | --- | 136.37 | 1171.62 |
| 8. | Keltron Component Complex Ltd. | 242.01 | 242.27 | 2396.07 | 2468.75 | 2048.27 | 2126.26 | 2436.65* | 2430.24* | 6.41* | 35.51 | --- | --- |
| | Sub Total (a) | 9841.76 | 9842.02 | 17225.77 | 19102.57 | 5484.34 | 6616.75 | 17357.94 | 17837.50 | 125.73 | 154.83 | 605.29 | 11044.28 |
| (b) K.S.I.E. Group | | | | | | | | | | | | | |
| 1. | Kerala State Drugs and Pharmaceuticals Ltd. | 430.00 | 430.00 | 2310.12 | 2528.42 | 988.29 | 997.13 | 1815.82 | 2127.79 | --- | --- | 311.97 | 2546.49 |
| (c) Chemicals | | | | | | | | | | | | | |
| 1. | The Kerala Minerals & Metals Ltd. | 3093.27 | 3093.27 | 15358.22 | 10492.25 | 10690.13 | 10767.37 | 12467.12 | 10453.24 | 2013.88 | 1573.58 | --- | 9225.88 |
| 2. | Malabar Cements Ltd. | 2569.26 | 2599.87 | 3015.32 | 2663.13 | 6033.56 | 6278.86 | 8520.15 | 7677.36 | 842.79 | 859.74 | --- | 301.65 |
| 3. | The Travancore Cochin Chemicals Ltd. | 659.75 | 1331.19 | 171.94 | 0.25 | 3976.37 | 4221.25 | 6854.43 | 5823.40 | 1031.03 | 501.03 | --- | --- |
| 4. | Travancore Titanium Products Ltd. | 176.75 | 176.75 | --- | --- | 2097.77 | 2157.30 | 4174.47 | 4043.77 | 130.70 | 61.70 | --- | --- |
| | Sub Total (C) | 6499.03 | 7201.08 | 18545.48 | 13155.63 | 22797.83 | 23424.78 | 32016.17 | 27997.77 | 4018.40 | 2996.05 | --- | 9527.58 |

(d) Textiles

| | | | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|---------|
| 1. Kerala State Textile Corporation Ltd. | 1063.87 | 1063.87 | 877.26 | 856.05 | 1504.52 | 1623.73 | 2856.26 | 2664.79 | 191.47 | 180.48 | --- | 394.28 |
| 2. Sitaram Textiles Ltd. | 317.00 | 420.00 | 2721.40 | 1334.20 | 565.09 | 604.98 | 1108.25 | 1190.70 | --- | --- | 82.45 | 1441.95 |
| 3. Trivandrum Spinning Mills Ltd. | 264.99 | 264.99 | 512.47 | 351.44 | 252.67 | 252.67 | 331.07 | 421.50 | --- | --- | 90.43 | 766.52 |
| Sub Total (d) | 1645.86 | 1748.86 | 4111.13 | 2541.69 | 2322.28 | 2481.38 | 4295.58 | 4276.99 | 191.47 | 180.48 | 172.88 | 2602.75 |

(e) Electricals & Cables

| | | | | | | | | | | | | |
|--|---------|---------|----------|----------|---------|---------|----------|----------|--------|--------|--------|---------|
| 1. Kerala Electrical & Allied Engineering Company Ltd. | 1437.85 | 2037.85 | 3578.54 | 3895.77 | 2263.79 | 2846.68 | 4434.24 | 4581.41 | --- | --- | 147.17 | 757.91 |
| 2. The Metropolitan Engineering Company Ltd. | 189.00 | 192.91 | 318.07 | 312.76 | 24.76 | 24.76 | 156.38 | 163.81 | --- | --- | 7.43 | 371.50 |
| 3. United Electrical Industries Ltd. | 399.07 | 399.07 | 3.01 | 3.07 | 129.28 | 129.48 | 815.81 | 728.58 | 87.23 | 87.23 | --- | 164.22 |
| 4. Traco Cable Company Ltd. | 1128.61 | 1301.81 | 4501.98 | 4133.04 | 3967.39 | 4065.97 | 4914.18 | 4637.63 | 276.55 | 276.55 | --- | 654.37 |
| 5. Transformers & Electricals Kerala Ltd. | 1347.53 | 1347.53 | 6390.41 | 5418.44 | 1828.16 | 1833.22 | 7965.50 | 7719.02 | 246.48 | 241.72 | --- | 4026.12 |
| Sub total (e) | 4502.06 | 5279.17 | 14792.01 | 13763.08 | 8213.38 | 8900.11 | 18286.11 | 17830.45 | 610.26 | 605.50 | 154.60 | 5974.12 |

(f) Engineering

| | | | | | | | | | | | | |
|-------------------------------------|---------|---------|---------|----------|---------|---------|--------------------------|---------|-------|-------|---------|---------|
| 1. The Metal Industries Ltd. | 30.02 | 30.02 | 46.88 | 48.33 | 31.96 | 32.99 | 149.18 | 147.43 | 1.75 | 1.75 | --- | 21.47 |
| 2. Steel Industries Kerala Ltd. | 2378.80 | 2378.80 | 1362.33 | 1740.50 | 476.02 | 490.50 | 1658.58 | 1801.20 | --- | --- | 142.62 | 663.89 |
| 3. Scooters Kerala Ltd. | 229.99 | 229.99 | 178.40 | 197.16 | 102.02 | 102.03 | 55.18 | 104.13 | --- | --- | 48.95 | 316.85 |
| 4. Astral Watches Ltd. | 8.00 | 8.00 | 74.25 | 76.54 | 84.34 | 84.75 | 32.10 | 62.75 | --- | --- | 30.65 | 55.63 |
| 5. Kerala Automobiles Ltd. | 323.00 | 323.00 | 909.00 | 984.00 | 813.00 | 828.00 | 1339.00 | 1314.00 | 25.00 | 25.00 | --- | 1560.00 |
| 6. Steel & Industrial Forgings Ltd. | 450.00 | 450.00 | 1143.00 | 1140.00 | 932.00 | 934.00 | 957.00 | 1252.00 | --- | --- | 295.00 | 1479.00 |
| 7. Autokast Ltd. | 1310.00 | 1310.00 | 4314.44 | 4831.03 | 2749.69 | 2788.74 | 506.47 | 1544.38 | --- | --- | 1037.91 | 5264.56 |
| 8. Kerala Hitech Industries Ltd. | 1300.00 | 1300.00 | 1770.47 | 2285.70 | 50.11 | 50.11 | Production not commenced | | | --- | --- | --- |
| Sub Total (f) | 6029.81 | 6029.81 | 9798.77 | 11303.26 | 5239.14 | 5311.12 | 4697.51 | 6225.89 | 26.75 | 26.75 | 1555.13 | 9361.40 |

(g) Ceramics & Refractones

| | | | | | | | | | | | | |
|---|---------|---------|--------|--------|--------|--------|--------|--------|-------|-------|-----|---------|
| 1. Kerala Construction Components Ltd. | 28.07 | 28.07 | 42.31 | 42.31 | 21.81 | 21.81 | 91.95 | 86.58 | 5.37 | 5.37 | --- | 58.00 |
| 2. The Kerala Ceramics Ltd. | 1031.98 | 1031.98 | 472.47 | 492.36 | 300.00 | 300.00 | 623.77 | 608.39 | 15.38 | 15.38 | --- | 1206.11 |
| 3. Kerala Clays & Ceramic Products Ltd. | 31.82 | 131.82 | 23.46 | 24.95 | 30.71 | 31.63 | 163.09 | 153.92 | 9.17 | 4.67 | --- | --- |

| | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|------------------------------|----------|---------|---------|---------|----------|
| Refractories Ltd. | 291.23 | 291.23 | 107.00 | 107.00 | 15.08 | 14.06 | Production not yet commenced | | | | | |
| Sub Total (g) | 1383.10 | 1483.10 | 645.24 | 666.62 | 367.60 | 367.50 | 878.81 | 848.89 | 29.92 | 25.42 | --- | 1264.11 |
| Sub Total - I (a to g) | 30331.62 | 32014.04 | 67428.52 | 63061.27 | 46412.86 | 48098.77 | 79347.94 | 77145.28 | 5002.53 | 3989.03 | 2799.87 | 42320.68 |
| II Wood based | | | | | | | | | | | | |
| 1. Forest Industries (Travancore) Ltd. | 37.71 | 37.71 | 52.09 | 51.55 | 28.73 | 29.45 | 194.31 | 191.84 | 2.47 | 1.20 | --- | 0.80 |
| III Traditional | | | | | | | | | | | | |
| 1. Foam Mattings (India) Ltd. | 68.00 | 236.39 | 219.49 | 280.09 | 178.85 | 178.85 | 377.32 | 325.07 | 52.25 | 52.25 | --- | 133.34 |
| 2. Handicrafts Development Corporation of Kerala Ltd. | 182.74 | 199.24 | 153.98 | 188.54 | 135.14 | 121.59 | 541.33 | 527.79 | 13.54 | 13.54 | --- | 121.59 |
| 3. Kerala State Bamboo Corporation Ltd. | 320.86 | 335.86 | 69.00 | 89.00 | 110.00 | 111.00 | 806.73 | 697.73 | 109.00 | 49.00 | --- | --- |
| 4. Kerala State Handloom Development Corporation Ltd. | 428.03 | 458.03 | 615.77 | 662.37 | 149.41 | 154.04 | 664.63 | 739.37 | --- | --- | 74.74 | 332.70 |
| 5. Kerala State Coir Corporation Ltd. | 235.04 | 242.54 | 270.97 | 271.26 | 107.42 | 107.42 | 232.72 | 252.19 | --- | --- | 19.47 | 268.47 |
| 6. Kerala State Cashew Development Corporation Ltd. | 3058.95 | 3058.95 | 3592.06 | 2753.00 | 197.83 | 197.83 | 2038.39 | 3106.70 | --- | --- | 1068.31 | 12318.15 |
| Sub total (III) | 4293.62 | 4531.01 | 4921.27 | 4244.26 | 878.65 | 870.73 | 4661.12 | 5648.85 | 174.79 | 114.79 | 1162.52 | 13174.25 |
| IV Trading | | | | | | | | | | | | |
| 1. Kerala State Industrial Products Trading Corporation Ltd. | 22.06 | 22.06 | 147.12 | 167.48 | 6.01 | 6.69 | 7654.85 | 7595.62 | 59.23 | 28.67 | --- | --- |
| V Promotional | | | | | | | | | | | | |
| 1. Kerala State Industrial Development Corporation Ltd. | 5912.05 | 7427.00 | 7500.73 | 7786.00 | 57.99 | 5799* | 1056.42* | 848.28* | 208.14* | 211.07 | --- | --- |
| 2. Kerala State Industrial Enterprises Ltd. | 2374.03 | 2374.03 | 1013.07 | 1238.36 | 53.35 | 53.35* | 337.03 | 335.39 | 1.64 | 1.29 | --- | 12.06 |
| 3. Kerala Small Industries Development Corporation Ltd. | 451.59 | 451.59 | 1013.44 | 1100.54 | 432.06 | 455.22 | 3021.95 | 3142.76 | --- | --- | 120.81 | 1100.54 |
| Sub Total (V) | 8737.67 | 10252.62 | 9527.24 | 10124.90 | 543.40 | 1109.96 | 4415.40 | 4326.43 | 209.78 | 212.36 | 120.81 | 1112.60 |
| Total (I+II+III+IV+V) | 43422.68 | 46857.44 | 82076.24 | 77649.46 | 47869.65 | 50115.60 | 96273.62 | 94908.02 | 5448.80 | 4346.05 | 4083.20 | 56608.33 |

* Figures relate to the year 1992-93.

APPENDIX 6.9

State-wise Distribution of Value of Property (Gross Block) under Central Public Sector Enterprises

(Amount in Rs. Crores)

| Sl. No. | State/Union Territory | As on 31-3-1992 | | As on 31-3-1993 | |
|---------|-----------------------|-------------------|---------------------|-------------------|---------------------|
| | | Value of Property | Percentage to total | Value of Property | Percentage to Total |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Andhra Pradesh | 14557 | 9.5 | 15534 | 9.0 |
| 2. | Arunachal Pradesh | 121 | 0.1 | 160. | 0.1 |
| 3. | Assam | 5872 | 3.8 | 6210 | 3.6 |
| 4. | Bihar | 12766 | 8.3 | 14023 | 8.1 |
| 5. | Goa | 75 | 0.1 | 80 | 0.1 |
| 6. | Gujarat | 9674 | 6.3 | 10554 | 6.1 |
| 7. | Haryana | 786 | 0.5 | 948 | 0.5 |
| 8. | Himachal Pradesh | 1943 | 1.3 | 2091 | 1.2 |
| 9. | Jammu & Kashmir | 1585 | 1.0 | 1905 | 1.1 |
| 10. | Karnataka | 2894 | 1.9 | 3610 | 2.1 |
| 11. | <u>Kerala</u> | <u>2000</u> | <u>1.3</u> | <u>2275</u> | <u>1.3</u> |
| 12. | Madhya Pradesh | 14285 | 9.3 | 16115 | 9.3 |
| 13. | Maharashtra | 27869 | 18.1 | 33372 | 19.2 |
| 14. | Manipur | 163 | 0.1 | 147 | 0.1 |
| 15. | Meghalaya | 12 | 0.0 | 12 | 0.0 |
| 16. | Mizoram | 55 | 0.1 | 155 | 0.1 |
| 17. | Nagaland | 154 | 0.1 | 190 | 0.1 |
| 18. | Orissa | 8524 | 5.5 | 9267 | 5.3 |
| 19. | Punjab | 941 | 0.6 | 1231 | 0.7 |
| 20. | Rajasthan | 2665 | 1.7 | 2896 | 1.7 |
| 21. | Sikkim | 38 | 0.0 | 57 | 0.0 |
| 22. | Tamil Nadu | 7838 | 5.1 | 8610 | 5.0 |
| 23. | Tripura | 369 | 0.2 | 397 | 0.2 |
| 24. | UttarPradesh | 14430 | 9.4 | 14935 | 8.6 |
| 25. | West Bengal | 10816 | 7.0 | 13434 | 7.7 |
| 26. | Andaman & Nicobar | 17 | 0.0 | 18 | 0.0 |
| 27. | Chandigarh | 219 | 0.1 | 15 | 0.0 |
| 28. | Daman & Diu | --- | --- | 1 | 0.0 |
| 29. | Delhi | 7599 | 4.9 | 8363 | 4.8 |
| 30. | Pondichery | 20 | 0.0 | 25 | 0.0 |
| 31. | Others & Unallocated | 5606 | 3.7 | 6871 | 4.0 |
| Total | | 153893 | 100.0 | 173501 | 100.0 |

APPENDIX-6.10

**Capital Invested and Employment in respect of Government of India Companies working in Kerala
1992-93 & 1993-94**

(Rs. lakhs)

| Sl. No. | Name of Company | Capital Invested (Rs. lakhs) | | Employment (Nos.) | |
|---------|--|------------------------------|----------------|-------------------|----------------|
| | | As on 31.03.93 | As on 31.03.94 | As on 31.03.94 | As on 31.03.94 |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Cochin Refineries Limited, Kochi. | 22730.00 | 32915.00 | 1285.00 | 1313.00 |
| 2. | Cochin Shipyard Limited, Kochi. | 19893.20 | 33993.62 | 2581.00 | 2540.00 |
| 3. | The Fertilizers & Chemicals Travancore Limited, Aluva. | 49425.63 | 44041.10 | 8940.00 | NA |
| 4. | Hindustan Latex Limited, Trivandrum. | 2243.00 | 2261.00 | 1993.00 | 2087.00 |
| 5. | Hindustan Newsprint Limited, Kottayam. | 8287.99 | 10766.65 | 1682.00 | 1675.00 |
| 6. | Indian Rare Earths Limited | | | | |
| | (a) Rare Earths Division, Udyogamandal | NA | NA | 641.00 | 673.00 |
| | (b) Mineral Division, Chavara | NA | NA | NA | NA |
| 7. | Indian Telephone Industries Ltd., Palakkad | NA | NA | NA | NA |
| 8. | Hindustan Insecticides Ltd., Udyogamandal | NA | NA | 780.00 | 760.00 |
| 9. | Instrumentation Ltd., Palakkad. | 2102.36 | 2178.15 | 614.00 | 621.00 |
| 10. | Modern Food Industries (India) Ltd. Edappally | NA | NA | 228.00 | 223.00 |
| 11. | H.M.T. Ltd., Kalamassery | 695.98 | 681.70 | 2791.00 | 2382.00 |
| 12. | Balmer Lawrie & Co. Ltd., Aroor | NA | NA | NA | NA |
| 13. | Hindustan Organic Chemicals Ltd. Ambalamugal | 4912.00 | 4669.00 | 449.00 | 452.00 |
| 14. | Cannanore Spinning and Weaving Mills, Kannur | 533.50 | 512.14 | - | - |
| 15. | Parvathy Mills, Kollam. | NA | NA | NA | NA |
| 16. | Vijayamohini Mills, Thiruvananthapuram | 814.42 | 894.84 | 578.00 | 573.00 |
| 17. | Alagappa Textiles (Cochin) Mills, Thrissur | 808.15 | 872.67 | 1060.00 | 764.00 |
| 18. | Kerala Lakshmi Mills, Thrissur | 688.08 | 768.41 | 784.00 | 784.00 |

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APPENDIX-6.11

**Performance of Government of India Companies in Kerala in terms of value of Production and Sales turnover
1992-93 & 1993-94**

(Rs.lakhs)

| Sl. No. | Name of Company | Value of Production | | Sales turnover | | Export | |
|---------|--|---------------------|-----------|----------------|-----------|---------|---------|
| | | 1992-93 | 1993-94 | 1992-93 | 1993-94 | 1992-93 | 1993-94 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1. | Cochin Refineries Limited, Kochi. | 182649.00 | 203774.00 | 181154.00 | 203088.00 | .. | .. |
| 2. | Cochin Shipyard Limited, Kochi. | 7004.54 | 6753.94 | 13031.66 | 6753.94 | 1.26 | 0.20 |
| 3. | The Fertilizers & Chemicals Travancore Limited, Aluva. | 84426.00 | 77054.00 | 75278.94 | 87066.55 | .. | .. |
| 4. | Hindustan Latex Limited, Trivandrum. | 3751.87 | 4212.90 | 3751.68 | 4269.00 | 36.22 | 133.19 |
| 5. | Hindustan Newsprint Limited, Kottayam. | 16762.00 | 17972.00 | 16393.00 | 17590.00 | .. | .. |
| 6. | Indian Rare Earths Limited | | | | | | |
| | (a) Rare Earths Division, Udyogamandal | 1092.79 | 1066.98 | 1560.63 | 1829.35 | 916.17 | 993.82 |
| | (b) Mineral Division, Chavara | NA | NA | NA | NA | NA | NA |
| 7. | Indian Telephone Industries Ltd., Palakkad | .. | .. | .. | .. | .. | .. |
| 8. | Hindustan Insecticides Ltd., Udyogamandal | 4704.00 | 4909.07 | 2809.37 | 1865.20 | 424.25 | 693.17 |
| 9. | Instrumentation Ltd., Palakkad. | 2811.51 | 3191.89 | 3345.61 | 3717.62 | 0.15 | 109.88 |
| 10. | Modern Food Industries (India) Ltd. Edappally | 1151.10 | 1222.83 | 1151.10 | 1222.83 | .. | .. |
| 11. | H.M.T. Ltd., Kalamassery | 3247.00 | 2012.00 | 2889.00 | 3112.00 | 124.00 | 150.00 |
| 12. | Balmer Lawrie & Co. Ltd., Aroor | NA | NA | NA | NA | NA | NA |
| 13. | Hindustan Organic Chemicals Ltd. Ambalamugal | 15420.00 | 12249.00 | 15654.00 | 12818.00 | 432.00 | 137.00 |
| 14. | Cannanore Spinning and Weaving Mills, Kannur | 962.25 | 963.34 | 1032.06 | 1299.54 | .. | .. |
| 15. | Parvathy Mills, Kollam. | NA | NA | NA | NA | NA | NA |
| 16. | Vijayamohini Mills, Thiruvananthapuram | 1127.50 | 1235.55 | 1112.80 | 1217.27 | .. | .. |
| 17. | Alagappa Textiles (Cochin) Mills, Thrissur | 1865.39 | 2053.44 | 1817.77 | 2095.89 | .. | .. |
| 18. | Kerala Lakshmi Mills, Thrissur | 1752.92 | 1802.55 | 1791.87 | 1780.68 | .. | 9.18 |

Government of India Companies functioning in Kerala - Main Features

(Amount in Rs. lakhs)

| Sl. No. | Name of the Company | Paid up Capital | | Share of Govt. and Public sector Fin. Insts. in the paid up capital as on 31-3-1994 | Total loan and interest accrued as on 31-3-1994 | Loan Availed during 1993-94 | | Gross Block | | Net Assets as on 31-3-94 | Value of raw materials consumed during 1993-94 | Net Profit (+)/ Net Loss (-) | |
|---------|--|-----------------|-----------------|---|---|-----------------------------|-------------|---------------|---------------|--------------------------|--|------------------------------|------------|
| | | as on 31-3-1993 | as on 31-3-1994 | | | from govt. | From Others | as on 31-3-93 | as on 31-3-94 | | | 1992-93 | 1993-94 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1. | Cochin Refineries Ltd., Kochi | 6894.00 | 6893.00 | 5809.00 | 28022.00 | --- | 11540.00 | 42919.00 | 50059.00 | 28858.00 | 182458.00 | (+)8712.00 | (+)6825.00 |
| 2. | Cochin Shipyard Ltd., Kochi | 7979.00 | 20118.20 | 20118.20 | 13948.48 | 225.00 | --- | 13180.50 | 13508.14 | 7204.27 | 1134.58 | (-) 794.95 | (-) 197.66 |
| 3. | Fertilisers and Chemicals Travancore Ltd., Aluva | 34277.20 | 34677.20 | 34620.58 | 18221.52 | --- | --- | 63313.88 | 64057.91 | 33800.11 | 37745.81 | (+)285.41 | (+)1241.37 |
| 4. | Hindustan Latex Ltd., Thiruvananthapuram | 1258.00 | 1258.00 | 1258.00 | 1747.00 | 5.00 | 45.00 | 3822.00 | 4154.00 | 1580.00 | 1202.36 | (+) 14.89 | (+) 53.92 |
| 5. | Hindustan News print Ltd. Kottayam | 8253.99 | 8253.99 | 8253.99 | 3379.36 | --- | 2250.00 | 17166.41 | 20852.68 | 9036.38 | 4102.85 | (+)1949.34 | (+)2247.01 |
| 6. | Indian Rare Earths Ltd., | | | | | | | | | | | | |
| | (a) Udyogamandal | NA | NA | NA | NA | NA | NA | 1172.17 | 1563.15 | 1134.30 | 125.37 | (-)71.68 | (+)108.82 |
| | (b) Mineral Division, Chavara | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 7. | Indian Telephone Industries Ltd., Palakkad | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8. | Hindustan Insecticides Ltd., Udyogamandal | 4078.74 | 4040.68 | 4040.68 | NA | NA | NA | 3059.59 | 3047.20 | 2382.89 | 2236.10 | (+)214.48* | (+)86.47* |
| 9. | Instrumentation Ltd., Palakkad | 2012.36 | 2048.15 | 2048.15 | 495.58 | NA | NA | 1187.98 | 1284.00 | 581.32 | 1479.10 | (+)350.10 | (+)475.25 |
| 10. | Modern Food Industries (India) Ltd., Edappally | NA | NA | NA | NA | NA | NA | 207.20 | 218.70 | 86.65 | 720.52 | (+) 111.10* | (+)90.06* |
| 11. | H.M.T. Ltd., Kaiamasseri | 606.00 | 606.00 | 606.00 | 1968.09 | NA | NA | 2126.82 | 2164.64 | 538.90 | 244.82 | (+) 242.97* | (+)468.01* |
| 12. | Balmer Lawrie and Co. Ltd., Aroor | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 13. | Hindustan Organic Chemicals Ltd. | | | | | | | | | | | | |
| | Ambalamugal | 3342.00 | 3342.00 | 3342.00 | 1711.00 | --- | --- | 12228.00 | 12228.00 | 6016.00 | 6422.00 | (+)2524.00 | (+)2102.00 |
| 14. | Cannanore Spinning and Weaving Mills Ltd. Kannur | 120.08 | 120.08 | 120.08 | 490.53 | NA | NA | 169.75 | 215.05 | 85.74 | 1429.22 | (-)72.58 | (+)55.59 |
| 15. | Parvathy Mills, Kollam | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 16. | Vijayamohini Mills, Trivandrum | 243.63 | 243.63 | 243.63 | 657.10 | 0.80 | --- | 565.07 | 580.72 | 327.47 | 672.89 | (-)71.80 | (-)7.87 |
| 17. | Alaganpa Textiles (Cochin) Mills Trissur | 223.03 | 223.03 | 223.03 | 833.48 | --- | --- | 845.43 | 857.35 | 323.55 | 1145.45 | (-)69.49 | (+)72.09 |
| 18. | Kerala Lakshmi Mills, Trissur | 114.46 | 114.46 | 114.46 | 657.95 | --- | --- | 732.26 | 739.70 | 308.32 | 1018.00 | (-)32.93 | (+)73.12 |

* Profit before Taxation

APPENDIX - 6.13

Production and Capacity Utilisation in Government of India Companies Working in Kerala
1992-93 and 1993-94

| Sl. No. | Name of Company | Name of Products | Unit | Installed Capacity | | Production | | Capacity Utilisation(%) | |
|---------|---|----------------------------|------------|--------------------|---------|------------|---------|-------------------------|---------|
| | | | | 1992-93 | 1993-94 | 1992-93 | 1993-94 | 1992-93 | 1993-94 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. | Cochin Refineries Ltd. | Petroleum Products | Million MT | 4.50 | 4.50 | 5.12 | 4.86 | 113.78 | 108.00 |
| 2. | Cochin Shipyard Ltd. | 1. Ship building | D.W.T. | 150000 | 150000 | 21176 | - | 14.12 | - |
| | | 2. Ship repair | G.R.T. | 1000000 | 1000000 | - | - | - | - |
| | | 3. Engineering works | D.W.T. | - | - | - | 8890 | - | - |
| 3. | Fertilizers & Chemicals Travancore Ltd. | | | | | | | | |
| a. | Udyogamandal Division | 1. Amonium Sulphate | MT | 225000 | 225000 | 165994 | 180700 | 69.33 | 80.31 |
| | | 2. Factomfos 20:20 | MT | 148500 | 148500 | 150945 | 117532 | 101.65 | 79.15 |
| b. | Cochin Division | 1. Urea | MT | 330000 | 330000 | 146828 | 242270 | 44.49 | 73.42 |
| | | 2. D.A.P & Factomfos 20:20 | MT | 485000 | 485000 | 539371 | 446600 | 111.21 | 92.08 |
| c. | Petro Chemical Divn. | Caprolactum | MT | 50000 | 50000 | 36569 | 39694 | 73.14 | 79.39 |
| d. | Marketing Division | Mixed Manures | MT | - | - | 61741 | 47527 | - | - |
| 4. | Hindustan Latex Ltd. | 1. Condoms | M.Pcs. | 608 | 608 | 587 | 628 | 96.54 | 103.29 |
| | | 2. Gloves | M.Pcs. | 24 | 24 | 12.60 | 10.95 | 52.50 | 45.63 |
| | | 3. Centchroman | M.Pcs. | 30 | 30 | 4.01 | 3.94 | 13.37 | 13.13 |
| | | 4. Copper-T | M.Pcs. | 4 | 4 | - | - | - | - |
| | | 5. Blood bag | M.Pcs. | 2 | 2 | - | - | - | - |
| | | 6. Hydrocephalis shunt | Nos. | 5000 | 5000 | 300 | - | 6.00 | - |
| | | 7. Mala - D/N | M. Cycles | 30 | 30 | - | 3.01 | - | 10.03 |
| 5. | Hindustan Newsprint Ltd | Newsprint | MT | 80000 | 80000 | 97015 | 98600 | 121.27 | 123.25 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|---|---|---------|-------------|----------|----------|----------|-------|--------|
| 6. | Indian Rare Earths Ltd. | | | | | | | | |
| a. | Rare Earths Division, Udyogamandal | 1. HLRE Chloride | MT | 5000 | 5000 | 3122 | 3165 | 62.44 | 63.30 |
| | | 2. Tridosium Phosphate | MT | 5600 | 5600 | 4784 | 4714 | 85.43 | 84.18 |
| | | 3. Rare Earth Flouride | MT | 180 | 180 | 152 | 162 | 84.44 | 90.00 |
| | | 4. Rare Earth Oxide | MT | 60 | 60 | 28 | 17 | 46.67 | 28.33 |
| b. | Mineral Divn, Chavara | NA | NA | NA | NA | NA | NA | NA | NA |
| 7. | Indian Telephone Industries Ltd. | Electronic Swit- ching Equipment | NA | NA | NA | NA | NA | NA | NA |
| 8. | Hindustan Insecticides Ltd. | 1. Tech. DDT | MT | 1344 | 1344 | 1185 | 1051 | 88.17 | 78.20 |
| | | 2. Form DDT | MT | 2688 | 2688 | 2175 | 2140 | 80.92 | 79.61 |
| | | 3. Tech. BHC | MT | 3000 | 3000 | 1943 | 1885 | 64.77 | 62.83 |
| | | 4. Form BHC | MT | 3000 | 3000 | 2101 | 1819 | 70.03 | 60.63 |
| | | 5. Tech. Endosulfan | MT | 1600 | 1600 | 1114 | 1384 | 69.63 | 86.50 |
| | | 6. Form Endosulfan | KL | 1910 | 1910 | 801 | 322 | 41.94 | 16.86 |
| 9. | Instrumentation Ltd. | 1. Process Central Valves | Nos. | 7500 | 7500 | 3438 | 3886 | 45.84 | 51.81 |
| | | 2. Safety Relief Valves & Pr. Reducing Valves | Nos. | 2000 | 2000 | 665 | 396 | 33.25 | 19.80 |
| | | 3. Orific Plate/Flow measuring Devices | Nos. | 500 | 500 | 35 | 215 | 7.00 | 43.00 |
| | | 4. Misc. items & Accessories | Nos. | As required | - | - | - | - | - |
| 10. | Modern Food Industries (India) Ltd. | Modern Bread & Bun | 400 gms | 287 | 287 | 281.64 | 287.72 | 98.13 | 100.25 |
| 11. | HMT Ltd. | Machine Tools | Nos. | 577 | 574 | 272 | 203 | 47.14 | 47.39 |
| 12. | Balmer Lawrie & Co. | NA | NA | NA | NA | NA | NA | NA | NA |
| 13. | Hindustan Organic Chemicals Ltd. | 1. Phenol | MT | 40000 | 40000 | 32636 | 29756 | 81.59 | 74.39 |
| | | 2. Acetone | MT | 24640 | 24640 | 20308 | 18580 | 82.42 | 75.41 |
| 14. | Cannanore Spinning and Weaving Mills | Yarn in different counts. | -- | 24800 | 24800 | 145.09 | 150.69 | - | - |
| | | | | Spindles | Spindles | lakh Kg | lakh Kg | | |
| 15. | Parvathy Mills | NA | NA | NA | NA | NA | NA | NA | NA |
| 16. | Vijayamohini Mills | Yarn | | 30476 | 30476 | 13.15 | 12.62 | - | - |
| | | | | spindles | spindles | lakh kg. | lakh kg. | | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----|-------------------------------------|---|---|-------------------|-------------------|-------------------|-------------------|---|----|
| 17. | Alagappa Textiles (Cochin) Mills | Cotton/blended yarn in cone and hank forms of different counts | | 49964 spindles | 49532 spindles | 19.64 lakh kg. | 21.12 lakh kg. | - | - |
| 18. | Kerala Lakshmi Mills | Cotton/blended yarn of medium and high counts | | 41328 spindles | 41328 spindles | 18.08 lakh kg. | 18.16 lakh kg. | - | - |

APPENDIX 6.14

District-wise Details of Small Scale Industrial Units Registered in Kerala During the year
1993-94 (Provisional)

| Sl. No. | Name of District | No. of SSI Units Promoted by | | | | Investment (Rs. in lakhs) | Value of Goods and Services produced (Rs. in lakhs) | Employment provided (Number) |
|-------------|--------------------|------------------------------|-------|--------|-------|------------------------------|--|---------------------------------|
| | | SC/ST | women | Others | Total | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Thiruvananthapuram | 146 | 565 | 890 | 1601 | 1592.13 | 6984.35 | 7087 |
| 2. | Kollam | 296 | 456 | 689 | 1441 | 1243.81 | 6221.48 | 7689 |
| 3. | Pathanamthitta | 76 | 150 | 444 | 670 | 584.97 | 1594.60 | 2889 |
| 4. | Alappuzha | 44 | 280 | 1146 | 1470 | 832.33 | 4805.75 | 5823 |
| 5. | Kottayam | 56 | 490 | 1023 | 1569 | 1851.51 | 4001.63 | 6362 |
| 6. | Idukki | 57 | 211 | 162 | 430 | 274.93 | 595.20 | 1298 |
| 7. | Ernakulam | 116 | 432 | 1377 | 1925 | 3499.05 | 9986.15 | 8648 |
| 8. | Thrissur | 162 | 238 | 1187 | 1577 | 1457.84 | 6396.02 | 6395 |
| 9. | Palakkad | 83 | 192 | 957 | 1232 | 1629.29 | 7760.21 | 4594 |
| 10. | Malappuram | 56 | 136 | 408 | 600 | 972.30 | 3522.22 | 2369 |
| 11. | Kozhikkode | 87 | 238 | 408 | 733 | 1141.94 | 3005.30 | 3199 |
| 12. | Wayanad | 18 | 159 | 73 | 250 | 234.46 | 410.25 | 720 |
| 13. | Kannur | 19 | 101 | 396 | 516 | 661.02 | 3473.38 | 1938 |
| 14. | Kasaragod | 24 | 94 | 401 | 519 | 652.17 | 3449.56 | 1934 |
| State Total | | 1230 | 3742 | 9561 | 14533 | 16627.75 | 62206.10 | 60945 |

APPENDIX 6.15

District-wise details of Registered SSI Units in Kerala as on 31st March 1994 (Provisional)

| Sl. No. | Name of District | No. of SSI Units Promoted by | | | | Total Investment (Rs. in lakhs) | Value of Goods and Services produced (Rs. in lakhs) | Employment provided (Number) |
|-------------|--------------------|------------------------------|-------|--------|--------|------------------------------------|--|---------------------------------|
| | | SC/ST | Women | Others | Total | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Thiruvananthapuram | 652 | 2230 | 9152 | 12034 | 10531.79 | 48637.81 | 49667 |
| 2. | Kollam | 895 | 1681 | 7487 | 10063 | 11101.68 | 36266.37 | 114990 |
| 3. | Pathanamthitta | 329 | 1075 | 2664 | 4068 | 2463.85 | 6295.02 | 17957 |
| 4. | Alappuzha | 232 | 1251 | 8749 | 10232 | 8435.92 | 52908.85 | 54172 |
| 5. | Kottayam | 240 | 1472 | 9779 | 11491 | 10475.43 | 22063.39 | 45792 |
| 6. | Idukki | 255 | 813 | 2316 | 3384 | 2332.17 | 6363.16 | 11983 |
| 7. | Ernakulam | 546 | 1325 | 13968 | 15839 | 25517.46 | 54238.00 | 76538 |
| 8. | Thrissur | 674 | 1158 | 10066 | 11898 | 14916.67 | 36832.53 | 52457 |
| 9. | Palakkad | 568 | 913 | 6276 | 7757 | 8999.02 | 24037.31 | 47466 |
| 10. | Malappuram | 565 | 529 | 3768 | 4862 | 7201.39 | 8995.56 | 20010 |
| 11. | Kozhikkode | 197 | 953 | 7080 | 8230 | 6003.97 | 19565.48 | 44577 |
| 12. | Wayanad | 134 | 518 | 1209 | 1861 | 922.45 | 876.73 | 6444 |
| 13. | Kannur | 149 | 530 | 5570 | 6249 | 5917.49 | 43713.93 | 66181 |
| 14. | Kasaragod | 50 | 294 | 2072 | 2416 | 2696.97 | N.A | 21309 |
| State Total | | 5486 | 14742 | 90156 | 110384 | 117516.26 | 360794.14 | 629543 |

Details of Entrepreneurship Development Programmes conducted during 1993-94

| Sl. No | Name of District | Number of Entrepreneurs Trained during 1993-94 | | | Total | No. of trained entrepreneurs who have started SSI Units |
|-------------|--------------------|--|--------|-----|-------|---|
| | | SC/ST | Others | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | |
| 1. | Thiruvananthapuram | --- | 43 | 43 | 1 | |
| 2. | Kollam | 25 | 20 | 45 | --- | |
| 3. | Pathanamthitta | --- | 25 | 25 | --- | |
| 4. | Alappuzha | 30 | 21 | 51 | 6 | |
| 5. | Kottayam | 28 | --- | 28 | --- | |
| 6. | Idukki | --- | 26 | 26 | --- | |
| 7. | Ernakulam | --- | 74 | 74 | --- | |
| 8. | Thrissur | --- | 54 | 54 | --- | |
| 9. | Palakkad | --- | 18 | 18 | --- | |
| 10. | Malappuram | --- | 55 | 55 | --- | |
| 11. | Kozhikkode | --- | 21 | 21 | --- | |
| 12. | Wayanad | 25 | --- | 25 | --- | |
| 13. | Kannur | --- | --- | --- | --- | |
| 14. | Kasaragod | --- | --- | --- | --- | |
| State Total | | 108 | 357 | 465 | 7 | |

APPENDIX 6.17

Achievements under Self Employment Programme during 1993-94

| Name of District | Applications sanctioned and amount disbursed during 1993-94 | | | | |
|-----------------------|---|--------------------|------------------|--------------------|--|
| | Amount Sanctioned | | Amount Disbursed | | |
| | No. | Amount (Rs. lakhs) | No. | Amount (Rs. lakhs) | |
| (1) | (2) | (3) | (4) | (5) | |
| 1. Thiruvananthapuram | 292 | 51.15 | 91 | 12.73 | |
| 2. Kollam | 345 | 77.55 | 218 | 55.05 | |
| 3. Pathanamthitta | 111 | 23.28 | 62 | 11.05 | |
| 4. Alappuzha | 156 | 31.71 | 102 | 23.17 | |
| 5. Kottayam | 192 | 48.76 | 192 | 48.40 | |
| 6. Idukki | 96 | 17.29 | 54 | 9.43 | |
| 7. Ernakulam | 297 | 39.05 | 79 | 9.64 | |
| 8. Thrissur | 353 | 64.46 | 159 | 29.82 | |
| 9. Palakkad | 179 | 28.59 | 85 | 10.30 | |
| 10. Malappuram | 243 | 47.49 | 72 | 14.20 | |
| 11. Kozhikode | 299 | 48.50 | 218 | 32.88 | |
| 12. Wayanad | 107 | 13.27 | 107 | 13.27 | |
| 13. Kannur | 149 | 22.04 | 149 | 21.90 | |
| 14. Kasaragod | 105 | 17.00 | 95 | 16.00 | |
| State Total | 2924 | 530.14 | 1683 | 307.84 | |

APPENDIX 6.18

Working Status of Small Scale Units as on 31-3-1994

| Sr. No. | District | Total No. of units as on 31-3-1994 | No. of units identified Sick | Units identified Closed | Units revived by DIC during 1993-94 |
|-------------|--------------------|------------------------------------|------------------------------|-------------------------|-------------------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Thiruvananthapuram | 12034 | 191 | 33 | 10 |
| 2. | Kollam | 10063 | 328 | 83 | 10 |
| 3. | Pathanamthitta | 4068 | 42 | 131 | NIL |
| 4. | Alappuzha | 10232 | 237 | 59 | 7 |
| 5. | Kottayam | 11491 | 218 | 214 | 6 |
| 6. | Idukki | 3384 | 48 | 79 | NIL |
| 7. | Ernakulam | 15839 | 993 | 76 | 6 |
| 8. | Thrissur | 11898 | 111 | 21 | 4 |
| 9. | Palakkad | 7757 | 52 | 742 | NIL |
| 10. | Malappuram | 4862 | 47 | 497 | NIL |
| 11. | Kozhikkode | 8230 | 176 | 70 | NIL |
| 12. | Wayanad | 1861 | 50 | 64 | NIL |
| 13. | Kannur | 6249 | 66 | 2 | 12 |
| 14. | Kasaragod | 2416 | 29 | NIL | NIL |
| State Total | | 110384 | 2588 | 2071 | 55 |

APPENDIX 6.19

District-wise details of Artisan Units started during 1993-94

| District | No. of artisan Units started |
|-----------------------|------------------------------|
| (1) | (2) |
| 1. Thiruvananthapuram | 104 |
| 2. Kollam | 43 |
| 3. Pathanamthitta | --- |
| 4. Alappuzha | 51 |
| 5. Kottayam | 62 |
| 6. Idukki | 29 |
| 7. Ernakulam | 22 |
| 8. Thrissur | 47 |
| 9. Palakkad | 50 |
| 10. Malappuram | 67 |
| 11. Kozhikode | 64 |
| 12. Wayanad | 92 |
| 13. Kannur | 96 |
| 14. Kasaragod | 48 |
| State Total | 775 |

APPENDIX 6.20

Industrial Co-operative Societies in Kerala as on 30.06.1994

| Sl. No. | District | Industrial Co-operative Societies Registered during 1993-94 (7-93 to 6-94) | Total Number of Industrial Co-operative Societies as on 30.06.1994 | | | | | Total Number of societies as on 30.06.1994 |
|-------------|--------------------|--|--|---------------------|-----------------------|-------|--------|--|
| | | | Beedi I.C.S. | | Other ICS Promoted by | | | |
| | | | Primary | Central | SC/ST | Women | Others | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. | Thiruvananthapuram | 7 | 3 | Nil | 20 | 52 | 167 | 239 |
| 2. | Kollam | 10 | 8 | 1 | 33 | 51 | 99 | 183 |
| 3. | Pathanamthitta | 4 | - | - | 10 | 26 | 49 | 85 |
| 4. | Alappuzha | 3 | 4 | - | 32 | 39 | 135 | 206 |
| 5. | Kottayam | 8 | Nil | Nil | 18 | 17 | 79 | 114 |
| 6. | Idukki | 9 | - | - | 29 | 9 | 26 | 64 |
| 7. | Ernakulam | 3 | - | - | 9 | 13 | 104 | 126 |
| 8. | Thrissur | 3 | 7 | - | 20 | 43 | 134 | 197 |
| 9. | Palakkad | 5 | 3 | 1 | 35 | 18 | 51 | 104 |
| | | | | (under liquidation) | | | | |
| 10. | Malappuram | 11 | 11 | - | 16 | 24 | 57 | 97 |
| 11. | Kozhikkode | 3 | 10 | - | 15 | 20 | 70 | 105 |
| 12. | Wayanad | 5 | - | - | 19 | 10 | 13 | 42 |
| 13. | Kannur | 1 | 16 | 1 | 28 | 38 | 96 | 162 |
| 14. | Kasaragod | 4 | 5 | - | 8 | 10 | 33 | 51 |
| State Total | | 76 | 67 | 3 | 292 | 370 | 1113 | 1775 |

APPENDIX - 6.21

KERALA FINANCIAL CORPORATION, TRIVANDRUM SUMMARY OF LOAN OPERATIONS AS ON 31-3-1994

(Rs. in lakhs)

| Sl. No. | Particulars | During the year 1993-94 | | | | | | Since inception upto 31-3-1994 | | | | | |
|---------|---|-------------------------|---------|--------|---------|-------|----------|--------------------------------|----------|--------|----------|-------|----------|
| | | SSI | | Others | | Total | | SSI | | Others | | Total | |
| | | No. | Amount | 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. | Application pending as on 1-4-1993 | 104 | 590.19 | 53 | 166.26 | 157 | 756.45 | | | | | | |
| 2. | Application received | 1094 | 7182.91 | 1071 | 3346.04 | 2165 | 10528.95 | 19511 | 65297.10 | 6717 | 27723.86 | 26228 | 93020.96 |
| 3. | Total application for consideration | 1198 | 7773.10 | 1128 | 3512.30 | 2326 | 11285.40 | 19511 | 65297.10 | 6717 | 27723.86 | 26228 | 93020.96 |
| 4. | Application withdrawn/rejected or otherwise disposed off | 154 | 769.45 | 66 | 192.62 | 220 | 962.07 | 3656 | 11125.01 | 766 | 4184.28 | 4422 | 15309.29 |
| 5. | Application sanctioned (gross) | 985 | 5471.10 | 1013 | 2938.74 | 1988 | 8409.84 | 15140 | 48586.91 | 6420 | 24171.07 | 21560 | 72757.98 |
| 6.(a) | Application cancelled/reduced out of current year sanction | 31 | 106.13 | 32 | 145.29 | 63 | 251.42 | | | | | | |
| (b) | Application cancelled/reduced out of previous year sanction | 59 | 344.02 | 20 | 80.25 | 79 | 424.27 | | | | | | |
| (c) | Total cancellation/reduction 6 (a+b) | 90 | 450.15 | 52 | 225.54 | 142 | 675.69 | 2411 | 8009.98 | 728 | 2304.31 | 3139 | 10403.99 |
| | Application sanctioned effectively (5-6A) | 954 | 5364.97 | 981 | 2793.45 | 1935 | 8158.42 | | | | | | |
| | Net Sanction (5-6 c) | 895 | 5020.95 | 961 | 2713.20 | 1856 | 7734.15 | 12689 | 40576.93 | 5692 | 21777.06 | 18381 | 62353.99 |
| | Amount disbursed along with no. of newly assisted units | 847 | 4448.53 | 849 | 2393.90 | 1696 | 6842.43 | 13066 | 35393.83 | 5307 | 16837.32 | 18373 | 52231.15 |
| | Application pending sanction as at the end of the period | 93 | 816.02 | 11 | 79.19 | 104 | 895.21 | | | | | | |

SSS

APPENDIX 6.22

District-wise details of disbursement of loan by KFC 1993-94

(Amount in Rs.lakhs)

| Sl. No. | District | SSI | | Others | | Total | |
|-------------------------------|--------------------|------------|----------------|------------|----------------|-------------|----------------|
| | | No. | Amount | No. | Amount | No. | Amount |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| Backward districts | | | | | | | |
| Category - A | | | | | | | |
| 1. | Idukki-Kattappana | 60 | 140.45 | 79 | 170.40 | 139 | 310.85 |
| 2. | Thodupuzha | | | | | | |
| 3. | Wayanad | 20 | 72.34 | 97 | 185.03 | 117 | 257.37 |
| Category - B | | | | | | | |
| 4. | Alappuzha | 53 | 240.46 | 27 | 68.86 | 80 | 309.32 |
| 5. | Malappuram | 50 | 384.85 | 15 | 30.93 | 65 | 415.78 |
| 6. | Kannur | 70 | 242.22 | 83 | 226.75 | 153 | 468.97 |
| 7. | Kasaragod | 20 | 75.44 | 39 | 85.76 | 59 | 161.20 |
| Category - C | | | | | | | |
| 8. | Thiruvananthapuram | 68 | 340.00 | 94 | 270.85 | 162 | 610.85 |
| 9. | Thrissur | 88 | 493.53 | 12 | 80.45 | 100 | 573.98 |
| | Total | 429 | 1989.29 | 446 | 1119.03 | 875 | 3108.32 |
| Non-backward districts | | | | | | | |
| 10. | Pathanamthitta | 25 | 221.08 | 40 | 74.67 | 65 | 295.75 |
| 11. | Kollam | 54 | 208.32 | 60 | 140.07 | 114 | 348.39 |
| 12. | Ernakulam | 142 | 1061.50 | 45 | 351.20 | 187 | 1412.70 |
| 13. | Palakkad | 54 | 417.64 | 16 | 57.60 | 70 | 475.24 |
| 14. | Kozhikode | 72 | 253.53 | 216 | 537.12 | 288 | 790.65 |
| 15. | Kottayam | 71 | 297.17 | 26 | 114.21 | 97 | 411.38 |
| | Total | 418 | 2459.24 | 403 | 1274.87 | 821 | 3734.11 |
| Grand Total | | 847 | 4448.53 | 849 | 2393.90 | 1696 | 6842.43 |

APPENDIX 6.23

Industry-wise classification of loan sanctioned and disbursed by the Kerala Financial Corporation as on 31-3-1994

(Rs.in lakhs)

| Sl. No. | Type of industry | Amount sanctioned | Percentage of total loans sanctioned | Amount disbursed | Percentage of total loans disbursed |
|--------------|------------------------------|-------------------|--------------------------------------|------------------|-------------------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Mining | 1413.20 | 2.11 | 550.53 | 1.05 |
| 2. | Crude Petroleum | 88.14 | 0.13 | 36.14 | 0.07 |
| 3. | Petroleum Refining | 13.37 | 0.02 | 11.31 | 0.02 |
| 4. | Sugar | NIL | NIL | NIL | NIL |
| 5. | Other food Products | 6332.18 | 9.45 | 4936.76 | 9.45 |
| 6. | Textiles | 2323.38 | 3.47 | 1587.84 | 3.04 |
| 7. | Paper & Paper Products | 1197.15 | 1.79 | 913.39 | 1.75 |
| 8. | Leather & leather products | 145.04 | 0.22 | 92.89 | 0.18 |
| 9. | Rubber products | 6749.37 | 10.07 | 4605.95 | 8.82 |
| 10. | Chemical & Chemical Products | 2606.55 | 3.89 | 1990.99 | 3.81 |
| 11. | Fertilisers | NIL | NIL | NIL | NIL |
| 12. | Cement | 110.20 | 0.16 | 84.07 | 0.16 |
| 13. | Basic metal | | | | |
| | a) Iron & Steel | 356.84 | 0.53 | 331.20 | 0.63 |
| | b) Non-ferrous | 573.30 | 0.86 | 493.90 | 0.95 |
| 14. | Metal products | 3103.59 | 4.63 | 1533.24 | 2.94 |
| 15. | Capital goods | | | | |
| | a) Non-electrical machy | 355.10 | 0.53 | 319.20 | 0.61 |
| | b) Electrical machy. | 1150.41 | 1.72 | 1144.94 | 2.19 |
| | c) Electronic machy. | NIL | NIL | NIL | NIL |
| | d) Transport equipment | 767.62 | 1.15 | 715.34 | 1.37 |
| 16. | Electricity generation | 4.89 | 0.01 | 4.89 | 0.01 |
| 17. | Services | | | | |
| | a) Hostels | 4966.96 | 7.41 | 3514.49 | 6.73 |
| | b) Hospitals | 487.90 | 0.73 | 387.80 | 0.74 |
| | c) Others | 13746.18 | 20.51 | 12399.49 | 23.74 |
| 18. | Others | 20509.55 | 30.61 | 16576.79 | 31.74 |
| Total | | 67,000.92 | 100.00 | 52,231.15 | 100.00 |

APPENDIX 6.24

Progress of the working of Kerala Financial Corporation at a glance

(Rs. in lakhs)

| Year | Loans sanctioned (Cumulative) | Loans disbursed (Cumulative) | Loans outstanding (Cumulative) | Profit before taxation | profit after taxation |
|---------|----------------------------------|---------------------------------|-----------------------------------|------------------------------|-----------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1985-86 | 13,894.06 | 10,669.41 | 9,380 | 50.58 | 50.58 |
| 1986-87 | 18,326.70 | 13,621.63 | 11,645 | 71.97 | 71.97 |
| 1987-88 | 21,827.04 | 17,019.38 | 14,384 | 143.12(-) | --- |
| 1988-89 | 28,376.31 | 21,166.82 | 19,092 | 77.27(-) | --- |
| 1989-90 | 35,286.99 | 26,803.26 | 22,472 | 73.14 | 73.14 |
| 1990-91 | 42,836.39 | 32,820.67 | 29,007 | 112.19 | 112.19 |
| 1991-92 | 49,754.80 | 38,878.59 | 31,823 | 89.94 | 89.94 |
| 1992-93 | 58,842.50 | 45,388.72 | 36,470 | 141.14 | 141.14 |
| 1993-94 | 67,000.92 | 52,231.15 | 41,704 | 141.56 | 136.43 |

APPENDIX - 6.25

KHADI AND VILLAGE INDUSTRIES : PRODUCTION, SALES, EMPLOYMENT, AND WAGES PAID DURING 1993-94

(Amount Rs. lakhs)

| Sl.No. | Name of Industry | Value of | | Employment (Nos) | | | | Wages paid |
|--------|----------------------------------|------------|---------|------------------|-----------|--------|-------|------------|
| | | Production | Sales | Full time | Part time | Casual | Total | |
| 1. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| I. | Khadi | 394.37 | 765.34 | 10728 | -- | -- | 10728 | 293.99 |
| II. | Village Industries | | | | | | | |
| i. | Processing of cereals and pulses | 527.50 | 591.86 | 5091 | 6678 | -- | 11769 | 166.98 |
| 2. | Village oil | 1497.49 | 1621.00 | 748 | 877 | -- | 1625 | 46.15 |
| 3. | Village Leather | 694.40 | 762.15 | 1944 | 947 | -- | 2891 | 164.43 |
| 4. | Cottage Match | 648.83 | 718.64 | 3365 | 4089 | -- | 7454 | 132.97 |
| 5. | Ghurkhandasari | 221.84 | 237.91 | 1116 | 386 | -- | 1502 | 53.74 |
| 6. | Palmgur | 142.26 | 230.87 | 875 | 9652 | -- | 10527 | 17.97 |
| 7. | Non-edible oil and soap | 325.51 | 361.11 | 337 | 503 | -- | 840 | 234.16 |
| 8. | Handmade paper | 66.22 | 69.84 | 508 | -- | -- | 508 | 17.22 |
| 9. | Village Pottery | 1010.19 | 1047.38 | 17618 | 4403 | -- | 22021 | 492.00 |
| 10. | Bee-keeping | 58.62 | 51.08 | 1525 | 12915 | -- | 14440 | 41.04 |
| 11. | Fibre-Screwpine | 629.69 | 665.52 | 58975 | 5159 | -- | 64134 | 387.82 |
| 12. | Blacksmithy and Carpentry | 989.59 | 1023.53 | 5712 | 929 | -- | 6641 | 278.12 |

Sub

| 1. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|----------------------|--|---------|----------|--------|-------|----|--------|---------|
| 13. | Lime | 829.22 | 978.09 | 4191 | 2546 | -- | 6737 | 308.63 |
| 14. | Fruits and Vetable preservation | 328.51 | 367.63 | 1168 | 1426 | -- | 2594 | 67.03 |
| 15. | Cane and Bamboo | 272.88 | 292.72 | 1336 | 3443 | -- | 4779 | 141.88 |
| 16. | Aluminium | 258.02 | 272.19 | 670 | 228 | -- | 898 | 81.27 |
| 17. | Agarbathy | 133.46 | 139.76 | 798 | 213 | -- | 1011 | 22.57 |
| 18. | Rubber based goods | 216.63 | 238.14 | 544 | 261 | -- | 805 | 23.01 |
| 19. | Textile | 331.43 | 369.03 | 2599 | 69 | -- | 2668 | 77.51 |
| 20. | Ayurvedic Medicine | 4.43 | 2.86 | 32 | 53 | -- | 85 | 2.08 |
| 21. | Collection of forest plants and fruits | 19.40 | 25.48 | 39 | 192 | -- | 231 | 5.05 |
| 22. | Service | -- | 113.74 | 497 | -- | -- | 497 | 55.55 |
| 23. | Polyvastra | 46.97 | 66.34 | 467 | -- | -- | 467 | 13.96 |
| 24. | Electronics | 80.48 | 65.45 | 510 | -- | -- | 510 | 3.43 |
| Total II | | 9333.57 | 10312.32 | 110665 | 54969 | -- | 165634 | 2834.57 |
| Grand Total (I + II) | | 9727.94 | 11077.66 | 121393 | 54969 | -- | 176362 | 3128.56 |

APPENDIX 6.26

Coir Co-operative Societies in Kerala

| Type of Society | No. of Societies as on | |
|--|------------------------|------------|
| | 31-3-93 | 31-3-94 |
| (1) | (2) | (3) |
| I. Primary Coir Co-operative Societies | | |
| a. Working | 444 | 442 |
| b. New Societies which have not started production | 57 | 57 |
| c. Dormant Societies | 58 | 51 |
| Total | 559 | 550 |
| II. Manufacturing Societies | | |
| a. Working | 23 | 20 |
| b. New Societies which have not started production | 20 | 5 |
| c. Dormant Societies | 5 | 23 |
| Total | 48 | 48 |
| III. Small Scale Producers Co-operative Societies | | |
| a. Working | 7 | 7 |
| b. New Societies which have not started production | Nil | Nil |
| c. Dormant Societies | 1 | 1 |
| Total : | 8 | 8 |
| IV. Husk Procurement and Distribution Societies | | |
| a. Working | 2 | 2 |
| b. New Societies which have not started production | Nil | Nil |
| c. Dormant Societies | 2 | 2 |
| Total | 4 | 4 |
| V. Defibering Societies | | |
| a. Working | Nil | Nil |
| b. New Societies which have not started production | 5 | 42 |
| c. Dormant Societies | Nil | Nil |
| Total | 5 | 42 |
| VI. Co-operative Coir Marketing Federation | 1 | 1 |
| VII. Total Number of Coir Co-operative Societies | | |
| a. Working | 477 | 472 |
| b. New Societies which have not started working | 83 | 104 |
| c. Dormant Societies | 65 | 77 |
| d. Societies under liquidation | 191 | 205 |
| Total : | 816 | 858 |

APPENDIX 6.27

Export of Coir Products from India during 1992-93 and 1993-94

| Sl. No. | Item | 1992-93 | | 1993-94 | |
|---------|--------------------------|-----------------|----------------------|-----------------|----------------------|
| | | Qty in (Tonnes) | Value (Rs. in lakhs) | Qty in (Tonnes) | Value (Rs. in lakhs) |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Coir yarn | 11.62 | 4.59 | 13269.00 | 2560.38 |
| 2. | Coir Fibre | 11442.47 | 1966.18 | 9.00 | 3.54 |
| 3. | Coir Mats | 13779.29 | 5079.62 | 15606.00 | 6701.86 |
| 4. | Coir Mattings | 4577.39 | 1775.89 | 5325.00 | 2352.84 |
| 5. | Coir Rugs and Carpets | 1326.93 | 573.89 | 1675.00 | 856.14 |
| 6. | Coir Rope | 67.76 | 13.81 | 304.00 | 58.24 |
| 7. | Coir (Other sorts) | 46.80 | 15.06 | 149.00 | 56.31 |
| 8. | Rubberised Coir Products | 111.67 | 71.54 | 83.00 | 46.62 |
| 9. | Curled Coir | 934.50 | 90.15 | 600.00 | 49.33 |
| 10. | Other Items (Specify) | 15.63 | 4.59 | --- | --- |
| Total : | | 32314.06 | 9595.32 | 37020.00 | 12685.26 |

APPENDIX 6.28

ACTIVITIES OF THE COIR CO-OPERATIVE SOCIETIES

Primary Coir Co-operative Societies

| Year | No. of Working Societies | No. of members ('000) | Raw material consumed | | | | Yarn & Fibre produced | | No. of workers to whom work was given ('000) | Wages paid (Rs. in lakhs) |
|---------|--------------------------|-----------------------|-----------------------|----------------------|------------------|----------------------|-----------------------|----------------------|--|---------------------------|
| | | | Husk | | Fibre | | Qty. in (Tonnes) | Value (Rs. in lakhs) | | |
| | | | No. in lakhs | Value (Rs. in lakhs) | Qty. in (tonnes) | Value (Rs. in lakhs) | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1991-92 | 452 | 259 | 1533.00 | 325.60 | 404.00 | 18.44 | 12706.00 | 1011.78 | 75 | 582.88 |
| 1992-93 | 444 | 253 | 1187.00 | 285.30 | 459.00 | 21.90 | 10276.00 | 962.07 | 70 | 518.71 |
| 1993-94 | 442 | 262 | 1094.00 | 309.31 | 882.00 | 58.71 | 95443.00 | 1082.37 | 66 | 537.40 |

Manufacturing Societies

| Year | No. of working Societies | No. of members ('000) | Value of Production (Rs. lakhs) | No. of workers ('000) | Wages paid (Rs. in lakhs) | Value of Exports (Rs. in lakhs) |
|---------|--------------------------|-----------------------|---------------------------------|-----------------------|---------------------------|---------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1991-92 | 29 | 4.37 | 710.57 | 2.21 | 100.02 | N.A. |
| 1992-93 | 30 | 5.07 | 722.85 | 2.67 | 103.83 | N.A. |
| 1993-94 | 26 | 4.64 | 890.22 | 2.55 | 137.23 | N.A. |

Production and Productivity under Handloom Sector in Kerala

| Sl.No. | Item | 1992-93 | 1993-94 |
|--------|--|---------|---------|
| | 2 | 3 | 4 |
| 1. | Estimated Number of Handlooms in the State | 55093 | 57345 |
| 2. | Number of Looms in the Co-operative Sector | 43471 | 45709 |
| 3. | Percentage of Item 2 to 1 | 78.91 | 79.71 |
| 1. | Co-operative Sector | | |
| i) | Production of Handloom Cloth (Million Metre) | 48.60 | 51.37 |
| ii) | Value of Production (Rs. in crores) | 97.20 | 146.40 |
| iii) | Productivity (Metre/Loom/Annum) | 1118 | 1124 |
| 1. | Corporate Sector | | |
| i) | Number of Looms under the Purview of Handloom Development Corporation | 6236 | 6252 |
| ii) | Production of Handloom Cloth (Million Metre) | 0.88 | 1.22 |
| iii) | Value of Production (Rs. in crores) | 1.82 | 3.48 |
| iv) | productivity (Metre/Loom/Annum) | 533 | 534 |
| | Unorganised Sector | | |
| i) | Number of Looms in the Unorganised/Private Sector | 5385 | 5400 |
| ii) | Production of Handloom Cloth (Million Metre) | 9.69 | 9.71 |
| iii) | Value of Production (Rs. in crores) | 2.09 | 2.75 |
| iv) | Productivity (Metre/loom/Annum) | 1800 | 1805 |
| | Total (Co-operative, Corporate and unorganised/Private Sectors) | | |
| i) | Production of Handloom Cloth (Million Metre) | 59.17 | 62.30 |
| ii) | Value of Production (Rs.in crores) | 128.12 | 152.63 |
| iii) | Productivity (Metre/Loom/Annum) | 1074 | 1154 |
| | Assistance Extended by way of loan and grant for the development of Handloom Industry (Rs. in lakhs) | | |
| a) | Loan | | |
| i) | State Government | 84.55 | 133.63 |
| ii) | Central Government | 2.66 | 12.63 |
| iii) | N.C.D.C. | 10.34 | --- |
| | Total | 97.55 | 146.26 |
| b) | Grant | | |
| i) | State Government | 129.75 | 475.006 |
| ii) | Central Government | 75.63 | 345.881 |
| iii) | NCDC | 0.35 | --- |
| | Total : | 205.73 | 820.887 |

| 1 | 2 | 3 | 4 |
|---|----------------------------|---------------|---------------|
| C Amount Spent as Rebate on the sale of Handloom Cloth | | | |
| i) | State Government | 149.65 | 149.50 |
| ii) | Central Government (MDA) | 350.00 | 400.00 |
| Total : | | 499.65 | 549.50 |
| 9. Value of unsold Stock (Rs. in crores) | | | |
| a) | In the Co-operative Sector | 15.22 | 20.81 |
| b) | In the Corporate Sector | 2.33 | 3.64 |
| c) | In the Unorganised Sector | --- | --- |
| Total : | | 17.55 | 24.45 |
| 10. Number of Co-operative societies | | | |
| a) Factory type | | | |
| i) | Working societies | 106 | 115 |
| ii) | Dormant | 9 | 13 |
| iii) | Under liquidation | 11 | 2 |
| Total : | | 126 | 130 |
| b) Cottage type societies | | | |
| i) | Working societies | 363 | 364 |
| ii) | Dormant | 37 | 37 |
| iii) | Under liquidation | 79 | 79 |
| Total | | 479 | 480 |
| Grand Total (a+b) | | 605 | 610 |

APPENDIX 6.30

Working results of Handloom Apex Society (Hantex)

(Value Rs. in lakhs)

| Sl. No. | Particulars | 1992-93 | 1993-94 |
|---------|---|---------|---------|
| (1) | (2) | (3) | (4) |
| 1. | Sales Turnover | 1124 | 1405 |
| 2. | Value of Cloth procured | 899 | 458 |
| 3. | Value of yarn purchased | 164 | 137 |
| 4. | Value of yarn distributed | 171 | 80 |
| 5. | Value of janatha Cloth Produced (Rs. in lakhs) | --- | --- |
| 6. | Value of Polyester shirting, Double Veshty and Single Veshty produced | 40.67 | --- |
| 7. | Processed Goods | | |
| | a) Production (Lakh metres) | 1.35 | 1.40 |
| | b) Value | 8.59 | 8.908 |
| 8. | No. of Exhibitions conducted | 15 | 14 |
| 9. | No. of Primary Societies Registered as Members (Cumulative) | 414 | 414 |

APPENDIX 6.31

Working Results of Kerala State Handloom Development Corporation Ltd., Kannur

(Rs. in lakhs)

| Sl. No. | Particulars | 1992-93 | 1993-94 |
|---------|---|-----------|-----------|
| (1) | (2) | (3) | (4) |
| 1. | Paid up share capital (as at the end of the year) | 428.03 | 458.03 |
| 2. | Total Borrowings (as at the end of the year) | 615.77 | -662.37 |
| 3. | Gross Block (as at the end of the year) | 149.41 | 154.04 |
| 4. | Value of Production | 182.30 | 347.00 |
| 5. | Income through sale of production | 344.95 | 516.79 |
| 6. | Other Income | 43.05 | 54.87 |
| 7. | Expenditure on Rawmaterials | 263.94 | 397.58 |
| 8. | Expenditure on Personal Payments | 94.67 | 102.36 |
| 9. | Provision for depreciation | 6.00 | 6.00 |
| 10. | Expenditure towards Interest and bank charges | 61.86 | 62.00 |
| 11. | Other Expenses | 42.90 | 78.46 |
| 12. | Net Profit (+) Loss for the year (-) | (-) 94.00 | (-) 74.74 |
| 13. | Accumulated Loss at the end of the year | 257.96 | 332.70 |

Production and Productivity under powerloom industry

(Rs. in lakhs)

| Sl.No. | Item | 1992-93 | 1993-94 |
|--------|--|---------|---------|
| (1) | (2) | (3) | (4) |
| 1. | Total Number of Powerlooms in the State (Estimated) | 4877 | 5531 |
| 2. | No. of looms in the co-operative Sector | 608 | 611 |
| 3. | Percentage of 2 to 1 | 12.47 | 11.05 |
| 4. | No. of Powerloom Co-operative societies in the State | 22 | 22 |
| 5. | No. of members in the Co-operative sector | 1396 | 1775 |
| 6. | Co-operative sector | | |
| | i) Production of cloth (lakh metres) | 26.45 | 26.60 |
| | ii) Value of Production (Rs. lakhs) | 317.40 | 319.20 |
| | iii) Productivity (Metre/loom) | 4350 | 4371.00 |
| 7. | Unorganised Sector (Private Sector) | | |
| | i) Production of Cloth (Lakh Metres) | 65.00 | 73.72 |
| | ii) Value of Production (Rs. lakhs) | 975.00 | 1105.80 |
| | iii) Productivity (Metre/Loom) | 1522.00 | 1754.00 |
| 8. | Total (Co-operative and unorganised sector) | | |
| | i) Production of Cloth (Lakh metres) | 91.45 | 100.32 |
| | ii) Production of cloth (Rs.lakhs) | 1292.40 | 1424.20 |
| | iii) Productivity (Metre/Loom) | 1875.00 | 1814.00 |

APPENDIX 6.33

Foreign Exchange Earnings of India from Cashew Industry

(Amount in Rs. lakhs)

| Year | Export Value | | Total | Import value of cashewnuts | Net foreign exchange earned |
|----------------|----------------|------------------------|--------|----------------------------|-----------------------------|
| | Cashew kernels | Cashewnut shell liquid | | | |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1985-86 | 22511 | 135 | 22646 | 2437 | 20209 |
| 1986-87 | 32755 | 148 | 32903 | 7116 | 25787 |
| 1987-88 | 31129 | 503 | 31632 | 6438 | 25194 |
| 1988-89 | 27393 | 220 | 27613 | 6137 | 21476 |
| 1989-90 | 36636 | 250 | 36886 | 8286 | 28600 |
| 1990-91 | 44224 | 556 | 44780 | 13400 | 31380 |
| 1991-92 | 66909 | 402 | 67311 | 26668 | 40643 |
| 1992-93 | 74549 | 381 | 74930 | 37633 | 37297 |
| 1993-94 (p) | 104154 | 280 | 104434 | 48270 | 56164 |

Source : DGCI & S. Calcutta (P) - Provisional

APPENDIX 6.34

Import of Raw cashewnuts into India

| Year | Quantity (M.T.) | Index 1976-77=100 | Value (Rs.crores) | Index 1976-77=100 |
|-------------|--------------------|----------------------|----------------------|----------------------|
| (1) | (2) | (3) | (4) | (5) |
| 1976-77 | 75122 | 100.00 | 18.33 | 100.00 |
| 1977-78 | 56299 | 74.94 | 17.98 | 98.09 |
| 1978-79 | 20496 | 27.28 | 9.16 | 49.97 |
| 1979-80 | 24232 | 32.26 | 11.60 | 63.28 |
| 1980-81 | 16280 | 21.67 | 8.71 | 47.52 |
| 1981-82 | 16057 | 21.37 | 18.37 | 100.22 |
| 1982-83 | 1485 | 1.98 | 1.41 | 7.69 |
| 1983-84 | 26877 | 35.78 | 22.12 | 120.68 |
| 1984-85 | 56161 | 74.76 | 38.84 | 211.89 |
| 1985-86 | 21945 | 29.21 | 24.37 | 132.95 |
| 1986-87 | 49149 | 65.43 | 71.16 | 388.22 |
| 1987-88 | 42609 | 56.72 | 64.38 | 351.23 |
| 1988-89 | 45150 | 60.10 | 61.37 | 334.81 |
| 1989-90 | 56248 | 74.88 | 76.66 | 418.22 |
| 1990-91 | 82639 | 110.01 | 134.00 | 731.04 |
| 1991-92 | 106080 | 141.21 | 266.68 | 1454.88 |
| 1992-93 | 134985 | 179.69 | 376.33 | 2053.08 |
| 1993-94 (P) | 190157 | 253.13 | 482.70 | 2633.39 |

Source DGCI & S, Calcutta (P) Provisional

Working Results of the Cashew Workers Apex Industrial Co-operative Society Ltd. (CAPEX)

(Rs. in lakhs)

| No | Particulars | 1992-93 | 1993-94 |
|-------|--|----------|---------|
| 2 | | 3 | 4 |
| | Share Capital (Total) | | |
| i. | Contribution of Primary Societies | 112.53 | 112.53 |
| ii. | Contribution from Government | 69.06 | 69.06 |
| | Number of Primary Societies registered as members of Capex | 10 | 10 |
| (a) | Total number of Cashew workers in the Primary societies registered | 6151 | 6280 |
| (b) | No. of members of Primary societies (if any) who are not cashew workers. | Nil | Nil |
| | Number of Primary Societies earning profit | Nil | Nil |
| | Raw nuts Procured | | |
| (i) | Quantity (Tonnes) | 5198.820 | 7031 |
| (ii) | Value (Rs. in lakhs) | 1311.930 | 1945.95 |
| | Products purchased from primary societies | | |
| (i) | Cashew Kernels | Nil | Nil |
| (ii) | Quantity (Tonnes) | --- | --- |
| (b) | Value (Rs. in lakhs) | --- | --- |
| (ii) | Other items (Specify name, Qty. and Value) | --- | --- |
| | Sales Turnover | | |
| A | Inside the Country | | |
| (i) | Cashew Kernels | | |
| (a) | Quantity (Tonnes) | 623.257 | 224.00 |
| (b) | Value (Rs. lakhs) | 265.890 | 248.10 |
| (ii) | Other items (specify and give details) | | |
| (i) | Cashew Shell | 13.32 | 9.81 |
| (ii) | Cashew Skin | 2.68 | 5.76 |
| (iii) | Shell Oil | 0.28 | 0.35 |
| | Exports | | |
| (i) | Cashew Kernels | | |
| (a) | Quantity (Tonnes) | 2112.41 | 2144.00 |
| (b) | Value (Rs. in lakhs) | 2876.72 | 2957.52 |
| | Other items (Specify and give details) | | |
| | Total (B) | | |
| | Quantity (Tonnes) | | |
| | Value (Rs. lakhs) | | |
| | Total sales (A + B) Quantity (MT) | 2735.667 | 2368.00 |
| | Value (Rs. in lakhs) | 3158.310 | 3221.54 |
| | Net Profit/Loss (Rs. lakhs) | 649.15 | 276.56 |
| | Number of persons employed in the CAPEX | 50 | 50 |
| (a) | Number of Primary societies which are different | Nil | Nil |
| (b) | Number of workers affected | Nil | Nil |

APPENDIX 6.36

District-wise Quantity of Rawnuts procured in 1994 cashew season

| Sl. No. | Place | Qty in MT | | Procurement Price | Selling Price |
|---------|--------------------|-----------|-------------|-------------------|---------------|
| | | Target | Achievement | Rs./kg | Rs/kg. |
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Thiruvananthapuram | NA | --- | --- | --- |
| 2. | Kollam | 6500 | 657.017 | 21.50 | 24.50 |
| 3. | Pathanamthitta | 2000 | 267.436 | 21.50 | 24.50 |
| 4. | Alappuzha | 2000 | 834.985 | 21.50 | 24.50 |
| 5. | Kottayam | NA | --- | --- | --- |
| 6. | Idukki | 1000 | 348.120 | 21.50 | 24.50 |
| 7. | Ernakulam | 2500 | 164.263 | 21.50 | 24.50 |
| 8. | Thrissur | 8500 | 2231.233 | 21.50 | 24.50 |
| 9. | Palakkad | 3500 | 2287.587 | 22.50 | 25.50 |
| 10. | Malappuram | 14000 | 5278.045 | 22.50 | 25.50 |
| 11. | Kozhikkode | 7000 | 2208.000 | 22.50 | 25.50 |
| 12. | Wayanad | 1000 | 924.951 | 22.50 | 25.50 |
| 13. | Kannur | NA | --- | --- | --- |
| 14. | Kasargod | 14000 | 3639.140 | 23 | 26.00 |

APPENDIX 6.37

Revenue Collection from Mining Sector : 1985-86 to 1993-94

(Rs. in lakhs)

| Year | Minor Minerals | Major Minerals | Total |
|---------|----------------|----------------|--------|
| (1) | (2) | (3) | (4) |
| 1985-86 | 5.33 | 52.34 | 57.67 |
| 1986-87 | 6.17 | 44.02 | 50.19 |
| 1987-88 | 8.93 | 103.13 | 112.06 |
| 1988-89 | 15.02 | 110.55 | 125.57 |
| 1989-90 | 25.44 | 120.31 | 145.75 |
| 1990-91 | 28.81 | 79.11 | 107.92 |
| 1991-92 | 32.63 | 131.72 | 164.36 |
| 1992-93 | 108.84 | 321.94 | 430.78 |
| 1993-94 | 114.85 | 337.28 | 452.13 |

Source : Directorate of Mining and Geology.

APPENDIX 6.38

Production and Sale of Mineral Sands

| Name of Mineral | 1992-93 Sales | | | 1993-94 Sales | | |
|-----------------|----------------------|--------------------|-------------------------|----------------------|--------------------|-------------------------|
| | Production (M.T.) | Quantity (M.T.) | Value (Rs. in lakhs) | Production (M.T.) | Quantity (M.T.) | Value (Rs. in lakhs) |
| | (2) | (3) | (4) | (5) | (6) | (7) |
| Quartzite | 136887 | 109715 | 1316.58 | 138582 | 100357 | 2301.93 |
| Chert | 9200 | 9668 | 1186.78 | 7645 | 8581 | 1051.11 |
| Ilmenite | 10272 | 10524 | 152.59 | 7458 | 6895 | 112.73 |
| Monazite | 13791 | 6352 | 450.99 | 12460 | 11395 | 884.68 |
| Other | 56 | 91 | NA | NA | NA | NA |

Source : Directorate of Mining and Geology

APPENDIX - 6.39

PRODUCTION AND SALE OF MAJOR MINERALS (OTHER THAN MINERAL SANDS)

(QTY. IN M.T., VALUE in Rs.lakhs)

| Name of minerals | 1992-93 | | | | | | 1993-94 | | | | | |
|------------------|------------|-----------|----------|-----------|----------------|-----------------|------------|-----------|----------|-----------|----------------|-----------------|
| | Production | | Sales | | | | Production | | Sales | | | |
| | Raw | Processed | Raw Qty. | Raw Value | Processed Qty. | Processed Value | Raw | Processed | Raw Qty. | Raw Value | Processed Qty. | Processed Value |
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13 |
| China Clay | 1885563 | 159503 | 125846 | 251.69 | 83034 | 3321.36 | 248668 | 95751 | 21142 | 28.79 | 74505 | 2222.39 |
| Silica Sand | 51125 | -- | 54224 | 48.80 | 50584 | 45.79 | 40118 | 35628 | 47760 | 47.76 | 35562 | 53.34 |
| Lime Shell | 137062 | -- | 128143 | 384.42 | -- | -- | 164682 | -- | 104948 | 399.78 | -- | -- |
| Lime Stone | 323038 | -- | 349856 | 722.03 | -- | -- | 439858 | -- | 431206 | 927.43 | -- | -- |
| Magnesite | 341 | - | 76 | 0.30 | -- | -- | 111 | -- | 91 | 0.37 | -- | -- |
| Quartz | 1250 | -- | 1250 | 5.00 | -- | -- | 2596 | -- | 2464 | 10.22 | -- | -- |

Source : Directorate of Mining and Geology.

APPENDIX - 7.1

DIVISION-WISE AND CATEGORY-WISE LENGTH OF ROADS UNDER PUBLIC WORKS DEPARTMENT AS ON 1-4-1994

(Kms.)

| Sl No. | Division | State High Ways | Major District Roads | Other District Roads | Village Roads | Total |
|--------|--------------------|-----------------|----------------------|----------------------|---------------|--------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Thiruvananthapuram | 80.700 | 294.922 | 1357.471 | 98.248 | 1831.341 (8.5) |
| 2. | Kollam | 167.576 | 446.952 | 1070.946 | 10.670 | 1696.144 (7.8) |
| 3. | Alappuzha | 112.525 | 286.817 | 513.698 | 128.390 | 1041.430 (4.8) |
| 4. | Pathanamthitta | 174.022 | 459.284 | 758.244 | 112.054 | 1503.604 (6.9) |
| 5. | Kottayam | 288.000 | 702.382 | 967.695 | 39.612 | 1977.689 (9.1) |
| 6. | Idukki | 330.286 | 419.693 | 392.263 | 426.448 | 1568.690 (7.2) |
| 7. | Ernakulam | 54.147 | 289.701 | 463.688 | -- | 807.536 (3.7) |
| 8. | Muvattupuzha | 93.176 | 516.752 | 535.242 | 32.063 | 1177.233 (5.4) |
| 9. | Thrissur | 208.412 | 518.208 | 803.195 | 107.642 | 1637.457 (7.6) |
| 10. | Palakkad | 143.507 | 748.925 | 536.885 | 366.156 | 1795.473 (8.3) |
| 11. | Manjeri | 184.538 | 387.646 | 954.624 | 310.678 | 1837.486 (8.5) |
| 12. | Kozhikode | 115.824 | 250.364 | 245.434 | 725.915 | 1337.537 (6.2) |
| 13. | Wayanad | 90.670 | 277.031 | 148.456 | 169.136 | 685.293 (3.2) |
| 14. | Kannur | 101.597 | 225.149 | 945.913 | 419.261 | 1691.920 (7.8) |
| 15. | Vadakara | 12.000 | 50.225 | -- | 7.530 | 69.755 (0.3) |
| 16. | Kasaragod | 28.967 | 84.563 | 376.416 | 482.819 | 972.765 (4.5) |
| Total | | 2185.947 | 5958.614 | 10070.170 | 3436.622 | 21651.353 (100) |

Source: Public Works Department
 Note: Figures in bracket denote percentage

APPENDIX - 7.2

**DIVISION-WISE AND SURFACE-WISE LENGTH OF ROADS MAINTAINED BY
PUBLIC WORKS DEPARTMENT AS ON 1-4-1994**

| | | | | | | (Kms) |
|--------------|--------------------|-----------------|----------------------------|---------------------|-----------------|------------------|
| Sl. No. | Division | Cement concrete | Black topped | Water Bound Mecadam | Others | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Thiruvananthapuram | -- | 1831.340 (9.6) | -- | -- | 1831.340 |
| 2. | Kollam | -- | 1527.312 (8.0) | 48.120 | 120.752 | 1696.184 |
| 3. | Alappuzha | -- | 913.647 (4.8) | 1.342 | 126.441 | 1041.430 |
| 4. | Pathanamthitta | 0.800 | 1456.034 (7.7) | 4.000 | 42.770 | 1503.604 |
| 5. | Kottayam | -- | 1891.644 (9.9) | 17.355 | 88.690 | 1997.689 |
| 6. | Idukki | -- | 1022.157 (5.4) | 55.818 | 490.715 | 1568.690 |
| 7. | Eraakulam | 0.322 | 768.189 (4.0) | 3.429 | 35.605 | 807.536 |
| 8. | Muvattupuzha | -- | 1082.281 (5.7) | 22.112 | 72.840 | 1177.233 |
| 9. | Thrissur | 6.680 | 1493.006 (7.9) | 92.831 | 44.930 | 1637.447 |
| 10. | Palakkad | -- | 1626.045 (8.5) | 23.865 | 145.563 | 1795.473 |
| 11. | Manjeri | -- | 1546.748 (8.1) | 43.065 | 247.673 | 1837.486 |
| 12. | Kozhikode | -- | 1126.636 (5.9) | 26.380 | 184.521 | 1337.537 |
| 13. | Wayanad | -- | 555.103 (2.9) | 21.350 | 108.810 | 685.263 |
| 14. | Kannur | 4.112 | 1266.547 (6.7) | 2.000 | 419.261 | 1691.920 |
| 15. | Vadakara | -- | 62.225 (0.3) | -- | 7.530 | 69.755 |
| 16. | Kasaragod | -- | 849.772 (4.5) | 4.300 | 118.693 | 972.765 |
| Total | | 11.914 | 19018.686 (100) | 365.958 | 2254.734 | 21651.352 |

Source: Public Works Department

Note: Figures in bracket denote percentage.

APPENDIX - 7.3

CATEGORY-WISE GROWTH OF MOTOR VEHICLES IN KERALA

| Sl. No. | Type of Vehicles | 1975 | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 |
|---|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. Goods Vehicles | | | | | | | | | |
| i. | Four Wheelers and above | 15785 | 20128 | 36699 | 51530 | 54753 | 57370 | 68176 | 78514 |
| ii. | Three wheelers including Tempos | -- | 993 | 4170 | 9876 | 11437 | 13719 | 9160 | 9941 |
| 2. Buses | | | | | | | | | |
| i. | Stage Carriages | 7828 | 8705 | 12910 | 15056 | 15806 | 15862 | 16883 | 18263 |
| ii. | Contract Carriages/ Omni Buses | -- | 842 | 2324 | 5234 | 5848 | 6981 | 8462 | 12107 |
| 3. Cars and Station Wagons | | | | | | | | | |
| i. | Cars | 44497 | 54381 | 76731 | 116676 | 125769 | 129232 | 135299 | 144400 |
| ii. | Station Wagons | -- | 196 | 507 | 849 | 891 | 946 | -- | -- |
| iii. | Taxi Cars | 11525 | 17780 | 28189 | 37638 | 37830 | 36999 | 40931 | 49843 |
| iv. | Geeps | 5859 | 7023 | 12972 | 24351 | 26133 | 27302 | 29334 | 32563 |
| Three Wheelers | | | | | | | | | |
| i. | Autorickshaws | 3125 | 7397 | 24383 | 58165 | 67317 | 75244 | 83725 | 92296 |
| ii. | Motorised Cycle rickshaws | -- | 38 | 34 | 62 | 53 | 57 | 48 | 80 |
| Two Wheelers | | | | | | | | | |
| i. | Motorised Cycles | -- | 58 | 73 | 70 | 63 | 63 | 63 | 63 |
| ii. | Scooter/Motor Cycles | 25769 | 50493 | 11629 | 248374 | 288498 | 330316 | 369537 | 428641 |
| Tractor Trailers Articulated | | | | | | | | | |
| | | 2735 | 1864 | 2104 | 2661 | 2660 | 2781 | 2803 | 2975 |
| Tractors | | | | | | | | | |
| | | -- | 1892 | 3089 | 41155 | 4305 | 4573 | 4315 | 4691 |
| Tillers | | | | | | | | | |
| | | -- | 469 | 1118 | 1927 | 2069 | 2330 | 3225 | 4089 |
| Trailers | | | | | | | | | |
| | | -- | 260 | 416 | 580 | 556 | 592 | 621 | 662 |
| D. Others | | | | | | | | | |
| | | 2507 | 1735 | 2891 | 4190 | 3954 | 3815 | 8816 | 8524 |
| Total | | 119720 | 174254 | 319259 | 581054 | 647742 | 708172 | 781398 | 887672 |
| Percentage increase over the previous year | | -- | 13.01 | 16.26 | 11.03 | 11.48 | 9.33 | 10.34 | 13.6 |

included in others.

Source: Motor Vehicles Department

APPENDIX - 7.4

DISTRICT-WISE NUMBER OF VEHICLES REGISTERED IN THE STATE DURING
1992-93 AND 1993-94

| Sl. No. | District | Goods Vehicles | | | Buses | | | Cars & Station Wagons | | | Three Wheelers | | |
|---------|--------------------|----------------|---------|-------------|---------|---------|-------------|-----------------------|---------|-------------|----------------|---------|-------------|
| | | 1992-93 | 1993-94 | % Variation | 1992-93 | 1993-94 | % Variation | 1992-93 | 1993-94 | % Variation | 1992-93 | 1993-94 | % Variation |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1. | Thiruvananthapuram | 660 | 817 | 23.79 | 398 | 1000 | 151.25 | 1098 | 1550 | 41.16 | 369 | 1135 | 207.6 |
| 2. | Kollam | 416 | 565 | 35.8 | 37 | 96 | 159.45 | 427 | 1375 | 122.01 | 1045 | 1033 | -1.15 |
| 3. | Pathanamthitta | 183 | 484 | 64.48 | 80 | 82 | 2.5 | 970 | 790 | 19.56 | 278 | 529 | 90.29 |
| 4. | Alappuzha | 354 | 464 | 31.07 | 91 | 137 | 50.55 | 308 | 690 | 124.02 | 305 | 339 | 11.15 |
| 5. | Kottayam | 883 | -- | -- | 489 | 669 | 36.81 | 644 | 1413 | 119.41 | 1020 | 1362 | 33.53 |
| 6. | Idukki | 167 | 115 | -31.14 | 110 | 84 | -23.64 | 235 | 351 | 49.36 | 63 | 87 | 38.09 |
| 7. | Ernakulam | 1221 | 2111 | 72.89 | 361 | 378 | 4.71 | 1398 | 2718 | 94.42 | 595 | 820 | 37.81 |
| 8. | Thrissur | 771 | 847 | 9.85 | 258 | 418 | 62.01 | 762 | 1128 | 48.03 | 1377 | 1514 | 9.95 |
| 9. | Palakkad | 236 | 528 | 123.72 | 107 | 195 | 82.24 | 253 | 1600 | 532.41 | 420 | 730 | 73.81 |
| 10. | Malappuram | 782 | 1257 | 60.74 | 39 | 302 | 674.35 | 440 | 1793 | 307.5 | 1960 | 2734 | 39.49 |
| 11. | Kozhikode | 712 | 702 | -1.41 | 238 | 310 | 30.25 | 542 | 1437 | 165.13 | 744 | 1189 | 59.81 |
| 12. | Wayanad | 57 | 90 | 57.89 | 23 | 37 | 60.87 | 108 | 190 | 75.93 | 131 | 250 | 90.83 |
| 13. | Kannur | 397 | 538 | 35.5 | 264 | 224 | -15.16 | 267 | 915 | 242.7 | 398 | 417 | 6.11 |
| 14. | Nasarayad | 100 | 100 | 10.24 | 38 | 57 | 50.00 | 159 | 501 | 215.1 | 492 | 381 | -22.56 |
| Total | | 7005 | 8701 | 24.21 | 2533 | 3989 | 57.48 | 7611 | 16451 | 216.15 | 9192 | 12520 | 36.21 |

Source: Motor Vehicles Department

| District | Two Wheelers | | | Others | | | Total | | |
|-----------------------|--------------|---------|-------------|---------|---------|-------------|---------|---------|-------------|
| | 1992-93 | 1993-94 | % Variation | 1992-93 | 1993-94 | % Variation | 1992-93 | 1993-94 | % Variation |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 1. Thiruvananthapuram | 5033 | 7442 | 47.86 | 101 | 153 | 51.49 | 7128 | 12097 | 69.71 |
| 2. Kollam | 2930 | 2974 | 1.50 | 92 | 116 | 26.09 | 5300 | 6159 | 16.2 |
| 3. Pathanamthitta | 2512 | 2992 | 19.11 | 46 | 105 | 128.26 | 3648 | 4982 | 36.57 |
| 4. Alappuzha | 2503 | 3192 | 27.52 | 34 | 157 | 361.76 | 3779 | 4979 | 31.75 |
| 5. Kottayam | 3506 | 3406 | -2.86 | 1399 | 120 | -91.43 | 8340 | 6970 | -16.43 |
| 6. Idukki | 340 | 569 | 67.35 | 31 | 49 | 58.06 | 926 | 1255 | 35.53 |
| 7. Emakulam | 8433 | 10312 | 22.28 | 259 | 241 | -6.95 | 13060 | 16580 | 26.95 |
| 8. Thrissur | 4945 | 6296 | 27.32 | 171 | 199 | 16.37 | 8959 | 10402 | 16.1 |
| 9. Palakkad | 2037 | 2201 | 8.05 | 307 | 388 | 26.38 | 3454 | 5642 | 63.35 |
| 10. Malappuram | 1730 | 3454 | 99.65 | 143 | 182 | 27.27 | 5241 | 9722 | 85.5 |
| 11. Kozhikode | 3383 | 4331 | 28.02 | 35 | 60 | 71.43 | 6080 | 8029 | 32.05 |
| 12. Wayanad | 216 | 304 | 40.74 | 70 | 137 | 95.71 | 638 | 1008 | 58 |
| 13. Kannur | 1508 | 2047 | 35.74 | 106 | 43 | -59.44 | 3107 | 4184 | 34.66 |
| 14. Kasaragod | 832 | 887 | 6.61 | 23 | 41 | 78.26 | 1955 | 2050 | 4.9 |
| Total | 39908 | 50407 | 26.31 | 2817 | 1991 | -29.32 | 71615 | 94059 | 31.34 |

APPENDIX - 7.5

DISTRICT-WISE GRGWTB INDEX OF MOTOR VEHICLES IN KERALA (Base 1980-81 = 100)

| Sl. No. | District | 1980-91 | | 1985-86 | | 1990-91 | | 1991-92 | | 1992-93 | | 1993-94 | |
|---------|--------------------|-----------------------|-------|-----------------------|--------|-----------------------|---------|-----------------------|---------|-----------------------|---------|-----------------------|---------|
| | | 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 |
| 1. | Thiruvananthapuram | 38673 | 100 | 61484 | 158.98 | 101980 | 263.70 | 113822 | 294.31 | 120868 | 312.54 | 132119 | 341.63 |
| 2. | Koilara | 18853 | 100 | 34212 | 181.47 | 57694 | 306.02 | 58023 | 307.76 | 62871 | 333.48 | 68474 | 363.20 |
| 3. | Pathanamthitta | -- | -- | 13316 | 599.01 | 35555 | 1599.42 | 40048 | 1801.52 | 43047 | 1936.43 | 47121 | 2119.70 |
| 4. | Alappuzha | 15549 | 100 | 25025 | 160.94 | 39545 | 254.33 | 43288 | 278.39 | 46560 | 299.44 | 51406 | 330.61 |
| 5. | Kottayam | 12647 | 100 | 21841 | 166.37 | 39758 | 314.37 | 44695 | 353.40 | 56996 | 450.67 | 76105 | 601.76 |
| 6. | Idukki | 4656 | 100 | 8097 | 173.90 | 12812 | 275.17 | 13819 | 296.79 | 15300 | 328.61 | 16908 | 363.14 |
| 7. | Emakulam | 34128 | 100 | 59611 | 174.67 | 105622 | 309.49 | 115605 | 338.73 | 124951 | 366.12 | 140732 | 412.37 |
| 8. | Thrissur | 19083 | 100 | 36693 | 192.28 | 70831 | 371.17 | 79421 | 416.18 | 89989 | 471.57 | 101847 | 533.71 |
| 9. | Palakkad | 11656 | 100 | 20041 | 171.94 | 37623 | 322.78 | 42272 | 362.86 | 46055 | 395.12 | 54683 | 469.14 |
| 10. | Malappuram | 7926 | 100 | 16605 | 209.50 | 30671 | 386.97 | 35032 | 441.98 | 40439 | 510.20 | 48642 | 613.70 |
| 11. | Kozhikode | 17330 | 100 | 29448 | 169.92 | 55939 | 322.79 | 62105 | 358.36 | 68973 | 398.00 | 77447 | 446.90 |
| 12. | Wayanad | -- | -- | 4703 | 202.11 | 8379 | 360.08 | 9082 | 390.28 | 9733 | 418.26 | 10492 | 450.88 |
| 13. | Kannur | 14096 | 100 | 24478 | 173.65 | 36540 | 259.22 | 34764 | 246.62 | 37716 | 267.57 | 41940 | 297.53 |
| 14. | Kasaragod | -- | -- | 6863 | 124.46 | 14793 | 268.28 | 16196 | 293.72 | 17900 | 324.63 | 19756 | 358.29 |
| Total | | 194597 | 100 | 361617 | 185.83 | 647742 | 332.86 | 708172 | 363.91 | 781398 | 401.55 | 887872 | 456.16 |

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Note: For Pathanamthitta, Wayanad and Kasaragod the Years 1982-83, 1981-82 and 1984-85 are taken as base respectively.

Source: Motor Vehicles Department.

APPENDIX - 7.6

MOTOR VEHICLE ROAD ACCIDENTS IN KERALA 1993 - 94

| Sl. No. | Name of District | No. of Accidents | | Increase/Decrease (Percentage) | No. of persons injured | | Increase/Decrease (Percentage) | No. of persons Killed | | Increase/Decrease (Percentage) |
|---------|--------------------|------------------|---------|--------------------------------|------------------------|---------|--------------------------------|-----------------------|---------|--------------------------------|
| | | 1992-93 | 1993-94 | | 1992-93 | 1993-94 | | 1992-93 | 1993-94 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Thiruvananthapuram | 3398 | 3733 | 9.86 | 3597 | 4269 | 18.68 | 211 | 220 | 4.27 |
| 2. | Kollam | 2618 | 3101 | 18.45 | 3697 | 4214 | 13.98 | 165 | 185 | 12.12 |
| 3. | Pathanamthitta | 966 | 1121 | 15.81 | 1241 | 1809 | 45.77 | 80 | 111 | 38.75 |
| 4. | Alappuzha | 2134 | 2290 | 7.31 | 2820 | 2986 | 5.89 | 137 | 173 | 26.28 |
| 5. | Kottayam | 2232 | 2693 | 20.65 | 2476 | 2769 | 11.83 | 126 | 101 | -19.84 |
| 6. | Idukki | 513 | 646 | 25.93 | 946 | 1416 | 1.50 | 46 | 62 | 34.78 |
| 7. | Emakulam | 3311 | 5082 | 53.49 | 3652 | 6286 | 72.12 | 235 | 289 | 22.98 |
| 8. | Thrissur | 1926 | 2576 | 33.75 | 3023 | 3580 | 18.43 | 262 | 261 | 0.40 |
| 9. | Palakkad | 1717 | 1956 | 13.92 | 3273 | 3322 | 1.50 | 201 | 219 | 8.96 |
| 10. | Malappuram | 2440 | 2880 | 18.03 | 3923 | 5179 | 32.02 | 217 | 211 | -2.76 |
| 11. | Kozhikode | 3343 | 3660 | 9.48 | 4782 | 4726 | -1.18 | 185 | 193 | 4.32 |
| 12. | Wayanad | 471 | 581 | 23.35 | 714 | 931 | 30.39 | 27 | 27 | 0.00 |
| 13. | Kannur | 1455 | 1613 | 10.86 | 2776 | 2557 | -7.89 | 105 | 128 | 21.90 |
| 14. | Kasaragod | 399 | 572 | 43.36 | 584 | 832 | 42.47 | 52 | 84 | 61.54 |
| Total | | 26925 | 32504 | 20.72 | 37503 | 44876 | 19.66 | 2049 | 2264 | 10.49 |

Source: Director General of Police.

APPENDIX - 7.7

CAUSE-WISE MOTOR VEHICLE ACCIDENTS IN KERALA 1993 - 94

| Sl. No. | District | Fault of driver of Motor vehicle | Fault of driver of vehicle other than motor vehicles | Fault of cyclists | Fault of pedestrians | Fault of passengers | Defect or Motor vehicles | Defect in road surface | Bad Weather conditions | Other causes | Causes not known | Total |
|---------|-------------------|----------------------------------|--|-------------------|----------------------|---------------------|--------------------------|------------------------|------------------------|--------------|------------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1. | Thiruvananthpuram | 2578 | 430 | 172 | 239 | 31 | 39 | 4 | -- | 56 | 4 | 3733 |
| 2. | Kollam | 2976 | 4 | 17 | 21 | 8 | 7 | 2 | -- | 62 | 4 | 3101 |
| 3. | Pathananthitta | 995 | -- | 8 | 24 | 14 | 46 | 7 | 11 | -- | 16 | 1121 |
| 4. | Alappuzha | 2250 | 7 | 6 | -- | 9 | 10 | 1 | -- | -- | 7 | 2290 |
| 5. | Kottayam | 2471 | 11 | 24 | 19 | 27 | 60 | 35 | 46 | -- | -- | 2693 |
| 6. | Idukki | 597 | -- | -- | -- | -- | 48 | 1 | -- | -- | -- | 646 |
| 7. | Emakulam | 4993 | -- | 6 | 14 | 11 | 9 | 1 | -- | 37 | 11 | 5082 |
| 8. | Thrissur | 2558 | -- | 1 | 5 | 1 | 2 | 2 | -- | 7 | -- | 2576 |
| 9. | Palakkad | 1952 | -- | -- | 1 | 1 | 2 | -- | -- | -- | -- | 1956 |
| 10. | Malappuram | 2858 | -- | 2 | 2 | 1 | 16 | -- | -- | 1 | -- | 2880 |
| 11. | Kozhikode | 3485 | 12 | 18 | 127 | 11 | 5 | 1 | 1 | -- | -- | 3660 |
| 12. | Wayanad | 577 | -- | -- | 1 | -- | 3 | -- | -- | -- | -- | 581 |
| 13. | Kannur | 1597 | -- | -- | -- | -- | 14 | -- | -- | -- | 2 | 1613 |
| 14. | Kasaragod | 571 | -- | -- | -- | -- | 1 | -- | -- | -- | -- | 572 |
| Total | | 30638 (94.3) | 464 (1.4) | 254 (0.8) | 453 (1.4) | 114 (0.4) | 262 (0.8) | 54 (0.2) | 58 (0.2) | 163 (0.5) | 44 (0.1) | 32504 (100) |

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Note: Figures in bracket denote percentage
Source: Director General of Police

APPENDIX 7.8

NUMBER OF ROAD ACCIDENTS BY CLASS OF VEHICLES INVOLVED (1993-94)

| Sl. No. | District | KSRTC Buses | Other Buses | Goods vehicles | Taxi cars | Motor cars | Auto-rickshawas | Jeeps | Two Wheelers | Miscellaneous vehicles | Class not known | Total |
|---------|--------------------|---------------|----------------|----------------|---------------|---------------|-----------------|---------------|----------------|------------------------|-----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1. | Thiruvananthapuram | 513 | 169 | 434 | 425 | 414 | 663 | 106 | 1113 | 56 | 4 | 3897 |
| 2. | Kollam | 208 | 359 | 417 | 324 | 214 | 640 | 174 | 732 | 189 | 2 | 3259 |
| 3. | Pathanamthitta | 28 | 158 | 112 | 170 | 108 | 216 | 68 | 214 | 44 | 3 | 1121 |
| 4. | Alappuzha | 175 | 234 | 324 | 181 | 181 | 442 | 26 | 632 | 150 | 3 | 2348 |
| 5. | Kottayam | 76 | 705 | 298 | 196 | 177 | 407 | 103 | 682 | - | 49 | 2693 |
| 6. | Idukki | 12 | 101 | 83 | 39 | 4 | 191 | 216 | 145 | 62 | - | 853 |
| 7. | Ernakulam | 152 | 1019 | 720 | 260 | 426 | 903 | 143 | 1286 | 173 | - | 5082 |
| 8. | Thrissur | 86 | 637 | 521 | 111 | 151 | 604 | 48 | 752 | 61 | 13 | 2984 |
| 9. | Palakkad | 19 | 507 | 318 | 286 | 140 | 319 | 23 | 342 | - | 2 | 1956 |
| 10. | Malappuram | 26 | 574 | 368 | 453 | 163 | 704 | 243 | 284 | 65 | - | 2880 |
| 11. | Kozhikode | 52 | 1110 | 513 | 294 | 197 | 602 | 432 | 556 | - | 1 | 3757 |
| 12. | Wayanad | 32 | 64 | 59 | 145 | 22 | 163 | - | 82 | - | 28 | 595 |
| 13. | Kannur | 7 | 581 | 71 | 216 | 114 | 275 | 103 | 195 | 49 | 2 | 1613 |
| 14. | Kasaragod | 10 | 126 | 76 | 54 | 68 | 128 | 45 | 65 | - | - | 572 |
| Total | | 1396 (4.2) | 6344 (18.9) | 4314 (12.8) | 3154 (9.4) | 2379 (7.1) | 6257 (18.6) | 1730 (5.1) | 7080 (21.1) | 849 (2.5) | 107 (0.3) | 33610 (100) |

Note : Figure in bracket denote percentages

Source: Director General of Police.

APPENDIX 7.9

MOTOR VEHICLE ACCIDENTS BY DAY/NIGHT (1993-94)

| Sl. No. | District | Day | Night | Time not known | Total |
|---------|--------------------|------------------|----------------|----------------|----------------|
| 1. | Thiruvananthapuram | 2980 | 733 | 20 | 3733 |
| 2. | Kollam | 2415 | 686 | - | 3101 |
| 3. | Pathanamthitta | 752 | 369 | - | 1121 |
| 4. | Alappuzha | 1594 | 693 | 3 | 2290 |
| 5. | Kottayam | 1972 | 721 | - | 2693 |
| 6. | Idukki | 575 | 121 | - | 696 |
| 7. | Ernakulam | 3814 | 1241 | 27 | 5082 |
| 8. | Thrissur | 1768 | 808 | - | 2576 |
| 9. | Palakkad | 1526 | 430 | - | 1956 |
| 10. | Malappuram | 2459 | 421 | - | 2880 |
| 11. | Kozhikode | 2896 | 764 | - | 3660 |
| 12. | Wayanad | 426 | 155 | - | 581 |
| 13. | Kannur | 1502 | 111 | - | 1613 |
| 14. | Kasaragod | 572 | - | - | 572 |
| Total | | 25251 (77.57) | 7253 (22.3) | 50 (0.15) | 32554 (100) |

Note : Figures in bracket denote percentage

Source : Director General of Police.

AIR TRAFFIC (INDIAN AIR LINES) FROM THIRUVANANTHAPURAM, KOCHI AND KOZHIKODE 1980-81 TO 1993-94

| Year | Passengers No. | | | | | | | | Freight (Tonnes) | | | | | | | |
|---------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|
| | Thiruvananthapuram | | Kochi | | Kozhikode | | Total | | Thiruvananthapuram | | Kochi | | Kozhikode | | Total | |
| | Origina- nating | Termi- nating | Origina- nating | Termi- nating | Origina- nating | Termi- nating | Origina- nating | Termi- nating | Origina- nating | Termi- nating | Origina- nating | Termi- nating | Origina- nating | Termi- nating | Origina- nating | Termi- nating |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 1980-81 | 101958 | 104327 | 87597 | 88409 | — | — | 18855 | 192736 | 1067.20 | 1186.90 | 344.40 | 535.60 | — | — | 1411.60 | 1722.50 |
| 1985-86 | 129778 | 149996 | 194477 | 206900 | — | — | 324255 | 358896 | 1132.20 | 22175.50 | 1062.40 | 1274.00 | — | — | 2194.60 | 3449.50 |
| 1986-87 | 133572 | 153627 | 198285 | 209490 | — | — | 329857 | 363057 | 892.10 | 1977.85 | 1026.47 | 1466.13 | — | — | 1918.57 | 3443.98 |
| 1987-88 | 134858 | 147071 | 194166 | 207110 | — | — | 329024 | 354181 | 908.21 | 1908.20 | 925.09 | 1260.39 | — | — | 1833.30 | 3168.68 |
| 1988-89 | 148652 | 157699 | 179900 | 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 | 48671 | 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 | 686.43 | 45.03 | 64.94 | 2380.95 | 2005.66 |
| 1992-93 | 120079 | 105582 | 104003 | 101797 | 78198 | 70587 | 302280 | 277966 | 994.00 | 1433.57 | 687.99 | 592.11 | 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 | 556.00 | 130.00 | 2920.60 | 2201.00 |

Source : G.M., Southern Region, Indian Airlines Ltd.

APPENDIX - 7.11

NUMBER AND TONNAGE OF STEAMERS AND SAILING VESSELS WHICH CALLED AT THE INTERMEDIATE AND MINOR PORTS OF KERALA DURING 1993-94

| Name of Ports | Coastal Foreign | Steamers | | Sailing Vessels | | Total No. of vessels | Total tonnage |
|------------------------------|--------------------|--------------|---------------|-----------------|--------------|----------------------------|------------------|
| | | No. | Tonnage | No. | Tonnage | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| I. Intermediate Ports | | | | | | | |
| 1. Neendakara | Coastal Foreign | --- | --- | --- | --- | --- | --- |
| | | 3 | 55884 | -- | --- | 3 | 55884 |
| 2. Kozhikode | Coastal Foreign | 49 | 8647 | 296 | 36317 | 345 | 44964 |
| | | --- | --- | --- | --- | --- | -- |
| II. Minor Ports | | | | | | | |
| 1. Azheekal | Coastal Foreign | 1 | 73 | 93 | 7752 | 94 | 7825 |
| | | --- | --- | --- | --- | --- | --- |
| 2. Kovalam - Vizhinjam | Coastal Foreign | --- | --- | --- | --- | --- | -- |
| | | 2 | 6190 | --- | --- | 2 | 6190 |
| Total | Coastal Foreign | 50 5 | 8720 62074 | 389 --- | 44069 --- | 439 5 | 52789 62074 |
| Grand Total | | 55 (22.2) | 70794 | 389 (-32) | 44069 | 444 (-7) | 114863 (13.2) |

Note : The figures in bracket show the Percentage variation over the previous year.

Source : Directorate of Ports.

APPENDIX - 7.12

NUMBER OF HARBOUR CRAFTS REGISTERED AT THE INTERMEDIATE AND MINOR PORTS OF KERALA DURING 1993-94

| Name of Ports | Cargo boats including barges | Canoes including boats | Mechanised fishing vessels | Total |
|---------------|---------------------------------|---------------------------|-------------------------------|-------|
| 1 | 2 | 3 | 4 | 5 |
| 1. Alappuzha | --- | --- | 125 | 125 |
| 2. Kozhikode | 3 | --- | 197 | 200 |
| 3. Neendakara | --- | --- | 835 | 835 |
| 4. Kannur | --- | 120 | --- | 120 |
| 5. Kasaragod | --- | --- | 453 | 453 |
| Total | 3 | 120 | 1610 | 1733 |

Source : Directorate of Ports

APPENDIX - 7.13

COMMODITY-WISE CARGO HANDLED AT THE INTERMEDIATE AND MINOR PORTS OF KERALA DURING 1993-94

(In tonnes)

| Sl. No. | Name of Port/Commodity | Imports | | | Exports | | | Grand Total |
|-----------|------------------------|---------|---------|-------|---------|---------|-------|-------------|
| | | Coastal | Foreign | Total | Coastal | Foreign | Total | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1. | Kozhikode Timber | --- | --- | --- | 3553 | --- | 3553 | 3553 |
| | Cement | --- | --- | --- | 3360 | --- | 3360 | 3360 |
| | River sand | --- | --- | --- | 2418 | --- | 2418 | 2418 |
| | Granite Metal | --- | --- | --- | 3607 | --- | 3607 | 3607 |
| | HSD Oil | 14 | --- | 14 | 3802 | --- | 3802 | 3816 |
| | Bricks | --- | --- | --- | 2503 | --- | 2503 | 2503 |
| | Granite Jelly | --- | --- | --- | 1297 | --- | 1297 | 1297 |
| | Rice | --- | --- | --- | 2434 | --- | 2434 | 2434 |
| | Calinate Boxite | 2798 | --- | 2798 | --- | --- | --- | 2798 |
| | Miscellaneous | 3035 | 572 | 3607 | 4463 | --- | 4463 | 8070 |
| Sub Total | | 5847 | 572 | 6419 | 27437 | --- | 27437 | 33856 |
| 2. | Azhikkal Timber | --- | --- | --- | 5790 | --- | 5790 | 5790 |
| 3. | Neendakara Ilmenite | --- | --- | --- | --- | 59150 | 59150 | 59150 |
| Total | | 5847 | 572 | 6419 | 33227 | 59150 | 92377 | 98796 |

APPENDIX - 7.14

DETAILS OF DREDGING OPERATIONS CONDUCTED AT THE INTERMEDIATE AND MINOR PORTS OF KERALA (1993-94)

| Sl. No. | Ports dredged | Time and quantity dredged | | Value (Rs. lakhs) |
|---------|---------------|---------------------------|------------------|-------------------|
| | | Time (hours) | Quantity dredged | |
| 1. | Neendakara | 44.55 | 26990 M3 | 3.23 |
| 2. | Munambam | 17.25 | 10450 M3 | 1.25 |
| 3. | Ponnani | 232.05 | 46415 M3 | 3.71 |
| 4. | Others | 322.00 | 193200 M3 | 23.18 |
| Total | | 615.85 | 277055 M3 | 31.37 |

Source : Directorate of Ports

APPENDIX - 7.15

**NUMBER OF SHIPS CALLED AT COCHIN PORT AND THEIR
NET REGISTERED TONNAGE (1993-94)**

| Sl. No. | Types of vessels | No. of Ships | | Variation increase/decrease | Net Registered Tonnage (lakh tonnes) | | Variation Increase/decrease |
|---------|---------------------------|--------------|------------|-----------------------------|--------------------------------------|-------------|-----------------------------|
| | | 1992-93 | 1993-94 | % | 1992-93 | 1993-94 | % |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1. | Tankers | 228 | 222 | - 2.63 | 38.00 | 36.00 | - 5.67 |
| 2. | Colliers | 3 | --- | --- | 0.33 | --- | --- |
| 3. | Food grain ships | 3 | --- | --- | 0.43 | --- | --- |
| 4. | Fertilizer ships | 83 | 63 | - 24.10 | 6.50 | 4.7 | - 27.70 |
| 5. | Container ships | 227 | 267 | 17.62 | 6.00 | 7.9 | 31.67 |
| 6. | Passenger and Cargo ships | 239 | 217 | - 9.21 | 8.09 | 7.2 | -12.00 |
| | Total | 783 | 769 | - 1.79 | 59.35 | 55.8 | - 6.02 |

Source : Cochin Port Trust

REVENUE COLLECTED AT THE INTERMEDIATE AND MINOR PORTS OF KERALA 1993-94

(Rs. Thousands)

| Sl. No. | Ports | Ports dues | Export/ Import dues | Tug hire charges | Pilotage fees | Private dredging charges | Miscellaneous | | Total |
|---------|---------------------|------------|------------------------|------------------|---------------|--------------------------|------------------------------|---------------------------|---------|
| | | | | | | | Ground rent, shed, rent etc. | Registration & other fees | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 1. | Alappuzha | --- | --- | 1.50 | --- | --- | 39.43 | 83.94 | 124.87 |
| 2. | Kozhikkode | 23.48 | 185.64 | 68.76 | 4.76 | --- | 573.93 | 6.13 | 862.70 |
| 3. | Neendakara | 44.67 | 363.63 | 1885.71 | --- | 1529.80 | 1256.32 | 205.96 | 5286.09 |
| 4. | Azheekkai | 4.29 | 41.82 | --- | --- | --- | 16.22 | 0.06 | 62.39 |
| 5. | Badagara | --- | --- | --- | --- | --- | 5.71 | --- | 5.71 |
| 6. | Cannanore | --- | --- | --- | --- | --- | 7.61 | --- | 7.61 |
| 7. | Kasaragod | --- | --- | --- | --- | --- | 103.85 | 12.94 | 116.79 |
| 8. | Kodungalloor | --- | --- | --- | --- | --- | --- | 87.49 | 87.49 |
| 9. | Kovalam - Vizhinjam | 2.16 | --- | --- | --- | --- | 4.42 | --- | 6.58 |
| 10. | Ponnani | --- | --- | --- | --- | --- | 7.91 | --- | 7.91 |
| 11. | Tellicherry | --- | --- | --- | --- | --- | 20.52 | --- | 20.52 |
| 12. | Thiruvananthapuram | --- | --- | --- | --- | --- | 36.64 | --- | 36.64 |
| 13. | Others | --- | --- | 179.78 | --- | 1050.00 | 41.18 | --- | 1270.96 |
| Total | | 74.60 | 591.09 | 2135.75 | 4.76 | 2579.80 | 2113.74 | 396.52 | 7896.26 |

Source : Directorate of Ports.

APPENDIX - 7.17

NUMBER OF PASSPORTS ISSUED FROM THE PASSPORT OFFICES IN KERALA
(1985 - 86 TO 1993 - 94)

| Year | No. of application received | | | | No. of passports issued | | | |
|---------|-----------------------------|--------|-----------|--------|-------------------------|--------|-----------|--------|
| | Thiruvananthapuram | Kochi | Kozhikode | Total | Thiruvananthapuram | Kozhi | Kozhikode | Total |
| 1985-86 | -- | 88362 | 65246 | 153608 | -- | 97863 | 67376 | 165239 |
| 1986-87 | -- | 70672 | 59038 | 129710 | -- | 68332 | 61307 | 129639 |
| 1987-88 | -- | 91548 | 79247 | 170795 | -- | 81149 | 67929 | 149078 |
| 1988-89 | -- | 145361 | 115062 | 260423 | -- | 122943 | 94738 | 207681 |
| 1989-90 | -- | 153387 | 132818 | 286205 | -- | 162949 | 15449 | 317398 |
| 1990-91 | -- | 125264 | 108249 | 225513 | -- | 128834 | 110028 | 238862 |
| 1991-92 | 34319 | 304523 | 228965 | 567807 | 3200 | 153134 | 119427 | 275761 |
| 1992-93 | 156653 | N.A | 206917 | N.A | 116737 | N.A | 341000 | N.A |
| 1993-94 | 117630 | 122473 | 201146 | 441249 | 174493 | 136832 | 286744 | 598069 |

Thiruvananthapuram Passport Office was upgraded as a full fledged office on 10-1-1992
Source: Passport Offices, Thiruvananthapuram, Kochi and Kozhikode.

APPENDIX - 7.18

LOSS/PROFIT OF INLAND WATER TRANSPORT AGENCIES IN KERALA

(Rs. lakhs)

| Year | SWTD | | | KSINC | | | KSRTC | | |
|---------|-----------------|---------------------|-------------|-----------------|---------------------|-------------|------------------|---------------------|-------------|
| | Revenue receipt | Revenue Expenditure | Loss/Profit | Revenue receipt | Revenue Expenditure | Loss/Profit | Revenue receipts | Revenue expenditure | Loss/Profit |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 1989-90 | 136.00 | 325.00 | (-) 189.00 | 37.00 | 46.00 | (-) 9.00 | 91.00 | 107.00 | (-) 16.00 |
| 1990-91 | 118.00 | 341.00 | (-) 223.00 | 49.00 | 58.00 | (-) 9.00 | 52.00 | 119.00 | (-) 67.00 |
| 1991-92 | 118.00 | 339.00 | (-) 221.00 | 204.00 | 194.00 | (+) 10.00 | 52.00 | 119.00 | (-) 67.00 |
| 1992-93 | 160.00 | 350.00 | (-) 190.00 | 250.00 | 232.00 | (+) 18.00 | 62.00 | 117.00 | (-) 55.00 |
| 1993-94 | 199.00 | 436.00 | (-) 237.00 | 284.00 | 230.00 | (+) 54.00 | 63.00 | 93.00 | (-) 30.00 |

APPENDIX - 7.19

GROWTH OF POSTAL OFFICES UNDER KERALA CIRCLE DURING THE LAST TEN YEARS

| Sl.No. | Category of Offices | As on 1st April | | | | | | | | | |
|--------------|---|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
| 1. | Head Post Offices | 51 | 51 | 50 | 50 | 50 | 50 | 50 | 51 | 51 | 51 |
| 2. | Sub Offices (Departmental and extra departmental) | 2026 | 2026 | 1971 | 1971 | 1971 | 1971 | 1971 | 1968 | 1968 | 1970 |
| 3. | Branch Offices | 2674 | 2672 | 2727 | 2761 | 2761 | 2840 | 2883 | 2959 | 2990 | 3019 |
| Total | | 4751 | 4749 | 4748 | 4782 | 4782 | 4861 | 4904 | 4978 | 5009 | 5040 |

Source : CPMG, Kerala Circle, Thiruvananthapuram.

APPENDIX - 7.20

**CATEGORY-WISE OFFICES IN POSTAL AND OTHER POSTAL SERVICES
UNDER KERALA CIRCLE.**

| Category of Office | As on 1st April | |
|--------------------------------|-----------------|------|
| | 1993 | 1994 |
| 1. Postal Services | | |
| i. Head Post Offices | 51 | 51 |
| ii. Sub Post Offices | | |
| a. Departmental | 1421 | 1426 |
| b. Extra Departmental | 547 | 544 |
| iii. Branch Offices | 2990 | 3019 |
| Total | 5009 | 5040 |
| II. Speed Post Centres | 6 | 6 |
| III. Other Postal Services | | |
| i. Railway mail service 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 | 86 | 86 |
| 2. Mail motor service division | 1 | 1 |
| 3. Units | 6 | 6 |
| 4. Central Stamp depot | 1 | 1 |
| Total | 94 | 94 |

Source: CPMG Kerala Circle, Thiruvananthapuram.

APPENDIX - 7.21

**DIVISION-WISE AND CATEGORY WISE DISTRIBUTION OF POST OFFICES UNDER
KERALA CIRCLE AS ON 1-4-1994**

| Sl. No. | Division | Head Offices | Sub Offices | | | Total |
|--------------|--------------------------|--------------|--------------|--------------------|----------------|-------------|
| | | | Departmental | Extra Departmental | Branch Offices | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Thiruvananthapuram South | 2 | 66 | 15 | 136 | 219 |
| 2. | Thiruvananthapuram North | 2 | 76 | 8 | 113 | 199 |
| 3. | Kollam | 3 | 83 | 33 | 121 | 240 |
| 4. | Thiruvalla | 2 | 62 | 31 | 61 | 156 |
| 5. | Pathanamthitta | 3 | 69 | 53 | 180 | 305 |
| 6. | Mavelikara | 2 | 50 | 23 | 48 | 123 |
| 7. | Alappuzha | 2 | 46 | 31 | 45 | 124 |
| 8. | Kottayam | 3 | 79 | 44 | 130 | 256 |
| 9. | Changanacherry | 2 | 48 | 12 | 105 | 167 |
| 10. | Idukki | 2 | 52 | 13 | 231 | 298 |
| 11. | Ernakulam | 2 | 71 | 5 | 59 | 137 |
| 12. | Alwaye | 3 | 68 | 33 | 140 | 244 |
| 13. | Irinjalakuda | 2 | 62 | 22 | 106 | 192 |
| 14. | Thrissur | 3 | 105 | 32 | 156 | 296 |
| 15. | Ottapalam | 1 | 53 | 22 | 142 | 218 |
| 16. | Palghat | 3 | 85 | 21 | 123 | 232 |
| 17. | Tirur | 2 | 52 | 22 | 96 | 172 |
| 18. | Manjeri | 2 | 44 | 21 | 191 | 258 |
| 19. | Calicut | 3 | 74 | 14 | 215 | 306 |
| 20. | Badagara | 2 | 41 | 37 | 145 | 225 |
| 21. | Tellicherry | 1 | 43 | 8 | 156 | 208 |
| 22. | Cannanore | 2 | 61 | 25 | 138 | 226 |
| 23. | Kasaragod | 2 | 30 | 16 | 181 | 229 |
| 24. | Lakshadweep | ... | 6 | 3 | 1 | 10 |
| Total | | 51 | 1426 | 544 | 3019 | 5040 |

Source : CPMG Kerala Circle, Thiruvananthapuram

APPENDIX - 7.22

DISTRICT-WISE AREA AND POPULATION SERVED BY ONE POST OFFICE DURING 1993-94

| Sl. No. | District/Island | Post Office (Nos.) | Area Sq. Kms. | Area served by one Post Office (sq. kms.) | Population (in 1000s) | Population served by one post office |
|---------|---------------------------------------|--------------------|---------------|---|-----------------------|--------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Thiruvananthapuram | 419 | 2192 | 5.23 | 2939 | 7014 |
| 2. | Kollam | 335 | 2491 | 7.44 | 2398 | 7158 |
| 3. | Pathanamthitta | 250 | 2642 | 10.56 | 1187 | 4748 |
| 4. | Alappuzha | 353 | 1414 | 4.00 | 1991 | 5640 |
| 5. | Kottayam | 422 | 2209 | 5.23 | 1829 | 4334 |
| 6. | Idukki | 299 | 5019 | 16.79 | 1077 | 3602 |
| 7. | Ernakulam | 380 | 2407 | 6.33 | 2798 | 7363 |
| 8. | Thrissur | 488 | 3032 | 6.21 | 2734 | 5602 |
| 9. | Palakkad | 446 | 4480 | 10.04 | 2376 | 5327 |
| 10. | Malappuram | 440 | 3550 | 8.06 | 3093 | 7029 |
| 11. | Kozhikode | 435 | 2344 | 5.38 | 2613 | 6006 |
| 12. | Wayanad | 147 | 2131 | 14.49 | 671 | 4564 |
| 13. | Kannur | 413 | 2966 | 7.18 | 2245 | 5435 |
| 14. | Kasargod | 199 | 1992 | 10.01 | 1071 | 5381 |
| | Lakshadweep | 10 | 32 | 3.2 | 45 | 4500 |
| | Mahe | 4 | 8.4 | 2.1 | 29 | 7250 |
| | Kerala including Lakshadweep and Mahe | 5040 | 38909.4 | 7.72 | 29096 | 5773 |
| | Kerala excluding Lakshadweep and Mahe | 5026 | 38869 | 7.73 | 29022 | 5774 |

Source : C.P.M.G. Kerala Circle, Thiruvananthapuram.

INCOME AND EXPENDITURE OF KERALA TOURISM DEVELOPMENT CORPORATION AND ACCOMMODATION DETAILS IN HOTELS (1993-94)

(Rs. in lakhs)

| Sl. No. | Name of Hotels/ Other units | No. of beds available | Total No. of visitors | | Occupancy ratio % | Annual Income | Annual Expenditure | | Total |
|---------|-----------------------------|-----------------------|-----------------------|---------|-------------------|---------------|--------------------|-----------|-------|
| | | | Domestic | Foreign | | | Administration | Operating | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 1. | Mascot Hotel | 88 | 2725 | 1159 | 35 | 126 | 55 | 51 | 106 |
| 2. | Hotel Chaitram | 176 | 18710 | 1188 | 67 | 169 | 101 | 76 | 177 |
| 3. | Hotel Samudra | 100 | 3548 | 1715 | 32 | 63 | 25 | 15 | 40 |
| 4. | Agasthya House | 16 | 1202 | 23 | 29 | 8 | 1 | 5 | 6 |
| 5. | Yathri Niwas, Quilon | 36 | 2220 | 848 | 40 | 23 | 8 | 13 | 21 |
| 6. | Motel Araam, Kottarakkara | 4 | --- | --- | --- | 10 | 2 | 6 | 8 |
| 7. | Motel Araam, Alleppey | 2 | --- | --- | --- | 16 | 13 | 10 | 13 |
| 8. | Hotel Aiswarya | 68 | 5614 | 339 | 37 | 35 | 12 | 25 | 37 |
| 9. | Periyar House | 77 | 13729 | 1642 | 47 | 38 | 17 | 11 | 28 |
| 10. | Aranya Nivas Hotel | 73 | 4203 | 4247 | 35 | 117 | 48 | 25 | 73 |
| 11. | Hotel Sabala, Kuttikanam | --- | --- | --- | --- | 4 | 1 | 3 | 4 |
| 12. | Bolgatty Palace Hotel | 24 | 866 | 1151 | 60 | 46 | 22 | 16 | 38 |
| 13. | Hotel Nandanam | 90 | 14709 | 34 | 37 | 18 | 13 | 6 | 19 |
| 14. | Mangalya | 38 | 8927 | NIL | 55 | 42 | 9 | 25 | 34 |
| 15. | Yatri Niwas, Thrissur | 38 | 4885 | 61 | 53 | 37 | 7 | 23 | 30 |
| 16. | Motel Araam, Palghat | 4 | --- | --- | --- | 13 | 4 | 8 | 12 |
| 17. | Garden House | 34 | 5932 | 74 | 55 | 38 | 8 | 16 | 24 |

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| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
|-------|--|-----|-------|-------|-----|---------|--------|--------|------|
| 18. | Malabar Mansion | 34 | 3475 | 62 | 59 | 65 | 10 | 42 | 52 |
| 19. | Motel Araam, Kannur | 4 | --- | --- | --- | 29 | 3 | 18 | 21 |
| 20. | Yatri Nivas, Kannur | 70 | 5436 | 436 | 39 | 37 | 8 | 24 | 32 |
| 21. | Motel Araam, Wayanad | 2 | --- | --- | --- | 5 | 1 | 3 | 4 |
| 22. | Kumarakom Tourist Complex | --- | --- | --- | --- | 8 | 4 | 3 | 7 |
| 23. | Motel Araam, Kayamkulam | 2 | --- | --- | --- | 21 | 4 | 12 | 16 |
| 24. | Boat Club Veli | --- | --- | --- | --- | 15 | 7.82 | 0.18 | 8 |
| 25. | Sabala Restaurant, Veli | --- | --- | --- | --- | 10 | 3 | 7 | 10 |
| 26. | SRBP, Statue | --- | --- | --- | --- | 38 | 4 | 25 | 29 |
| 27. | Sabala Museum | --- | --- | --- | --- | 15 | 7 | 5 | 12 |
| 28. | Sabala Rest. and Beer Parlour, Ponmudi | --- | --- | --- | --- | 7 | 1 | 4 | 5 |
| 29. | SRBP Kanjikode | --- | --- | --- | --- | 17 | 1 | 12 | 13 |
| 30. | SRBP, Walayar | --- | --- | --- | --- | 12 | 1 | 8 | 9 |
| 31. | Travel & Tours Dn. | --- | --- | --- | --- | 38 | 40 | 8 | 48 |
| 32. | Mascot Hotel Airport Rest, Trivandrum | --- | --- | --- | --- | 33 | 6 | 24 | 30 |
| 33. | TRC Cochin | --- | --- | --- | --- | 31 | 16 | 6 | 2.2 |
| 34. | TRC Kozhikode | --- | --- | --- | --- | 3 | 1.88 | 0.12 | 2 |
| Total | | 980 | 97181 | 12979 | --- | 1187.00 | 454.70 | 535.30 | 990 |

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APPENDIX 8.1

Item-wise Export through Kochi Port During 1993-94 (9 months)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|-------------------------------------|-------|----------|----------|
| (1) | (2) | (3) | (4) |
| Coir Fibre | Qtls. | 6000 | 49.33 |
| Coir Yarn | Qtls. | 71326 | 1356.57 |
| Coir Ropes | Qtls. | 1792 | 38.59 |
| Coir Mats & Matting | Qtls. | 125210 | 5178.88 |
| Coir Braids & Fenders | Qtls. | 132 | 5.76 |
| Coir Matting Strips | Qtls. | 15 | 0.41 |
| Coir Nets | Qtls. | 47 | 1.36 |
| Coir Poles | Qtls. | 31 | 1.32 |
| Coir Hollow Mats | Qtls. | 120 | 2.95 |
| Coir Bags | Qtls. | 94 | 3.76 |
| Coir P.V.C. Tufted products | Qtls. | 368 | 17.52 |
| Coir Sheets (Rubberised) | Qtls. | 56 | 2.27 |
| Coir Mattress (Rubberised) | Qtls. | 139 | 11.54 |
| Coir Mesh Mattress | Qtls. | 302 | 13.17 |
| Coir Quit Mattress | Qtls. | 36 | 2.43 |
| Coir Cushions Rubberised with cover | Qtls. | 20 | 1.65 |
| Coir Other products | Qtls. | 395 | 20.06 |
| Aloe Yarn | Qtls. | 31 | 1.27 |
| Aloe Mats & Matings | Qtls. | 87 | 3.91 |
| Jute Yarn | Qtls. | 510 | 0.51 |
| Jute Mats & Matings | Qtls. | 1655 | 96.11 |
| Jute Dhurries & Floor Coverings | Qtls. | 210 | 14.29 |
| Jute Other Products | Qtls. | 3 | 0.11 |
| Black Pepper | Qtls. | 330132 | 12998.90 |
| Green Pepper Dried/Dehydrated | Qtls. | 1761 | 295.95 |
| Green Pepper in Brine | Qtls. | 6727 | 157.43 |
| Pepper Atom/Pinhead etc | Qtls. | 1549 | 20.65 |
| Black Pepper Fines | Qtls. | 150 | 3.58 |
| White Pepper | Qtls. | 280 | 28.76 |
| Singer | Qtls. | 15326 | 471.92 |
| Turmeric | Qtls. | 19403 | 295.65 |
| Red Chilies | Qtls. | 7539 | 222.93 |
| Cardamoms | Qtls. | 1582 | 734.43 |
| Black Tamarind (Kokkam) | Qtls. | 6 | 0.09 |
| Wiled Turmeric | Qtls. | 353 | 7.60 |
| Angelica Roots (White) | Qtls. | 10 | 0.32 |
| Galangal/Kolinjan | Qtls. | 598 | 12.50 |
| Foodary Roots | Qtls. | 100 | 1.23 |
| Capurkatchily | Qtls. | 115 | 2.50 |
| Tamarind | Qtls. | 221 | 4.90 |
| Spices | Qtls. | 10 | 0.43 |
| Cashew Kernels | Qtls. | 230934 | 32700.57 |
| Peanut (Groundnut) Kernels | Qtls. | 2685 | 45.15 |
| Coffee Beans | Qtls. | 269322 | 9985.64 |
| Coffee Toffee | Qtls. | 500 | 0.90 |

Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. lakhs)

| Commodity | Unit | Quantity | Value |
|----------------------------|-------|----------|----------|
| (1) | (2) | (3) | (4) |
| Instant Coffee Powder | Qtls. | 13321 | 70.82 |
| Black Tea Dust/Leaf | Qtls. | 130916 | 8203.13 |
| Green Tea Dust/Leaf | Qtls. | 4070 | 2.78 |
| Instant Tea Powder/Bags | Qtls. | 4164 | 944.70 |
| Golden Tips Tea | Kgs. | 113 | 0.81 |
| Tea Aroma | Kgs. | 8 | 1.21 |
| Tea Trunks | Kgs. | 62 | 1.63 |
| Shoot Portion of Tea Plant | Kgs. | 42 | 1.02 |
| Ajowan Seeds | Qtls. | 15 | 0.45 |
| Annatto Seeds | Qtls. | 20 | 0.49 |
| Celery Seeds | Qtls. | 60 | 1.16 |
| Chilly Seeds | Qtls. | 200 | 1.33 |
| Coriander Seeds | Qtls. | 2020 | 46.08 |
| Cover Crop Seeds | Qtls. | 1645 | 54.10 |
| Cummin Seeds | Qtls. | 539 | 30.68 |
| Dill Seeds | Qtls. | 70 | 1.75 |
| Fenugreek Seeds | Qtls. | 180 | 2.61 |
| Articles Made of Palmyra | Qtls. | 7719 | 4.19 |
| Pickles & Curry Masalas | Qtls. | 10518 | 410.54 |
| Pappadams | Qtls. | 918 | 26.99 |
| Rice/Rice Flakes etc | Qtls. | 23520 | 219.95 |
| Food Stuffs | Qtls. | 3492 | 121.12 |
| Fruits & Products | Qtls. | 2007 | 38.12 |
| De Onion | Qtls. | 18 | 5.62 |
| Maida | Qtls. | 200 | 1.59 |
| Vegetables | Qtls. | 403 | 4.36 |
| Garlic & Onions etc | Qtls. | 20 | 4.50 |
| Jaggery | Qtls. | 1028 | 17.65 |
| Tapioca | Qtls. | 454 | 5.78 |
| Provisions | Qtls. | 443 | 16.82 |
| Merchandise | Qtls. | 1905 | 9.51 |
| Almond Syrup | Qtls. | 299 | 14.91 |
| Mushroom in Brine | Qtls. | 31 | 1.31 |
| Caprolactum | Qtls. | 20045 | 858.04 |
| Dry Anchovies | Kgs. | 200 | 0.38 |
| Honey | Kgs. | 50 | 0.02 |
| Pure Ghee | Gms. | 1500 | 0.02 |
| Black Pepper Spent/Dust | Qtls. | 653 | 6.23 |
| Coriander Spent/Dust | Qtls. | 111 | 0.96 |
| Ginger Spent/Dust | Qtls. | 1727 | 11.92 |
| Sandalwood Spent/Dust | Qtls. | 1100 | 10.37 |
| Turmeric Spent/Dust | Qtls. | 426 | 2.17 |
| Frozen Shrimps | Qtls. | 225975 | 28535.14 |
| Frozen Lobster | Qtls. | 343 | 115.65 |
| Frozen Squid & Cuttlefish | Qtls. | 204063 | 14120.96 |
| Frozen Other Sea Foods | Qtls. | 70294 | 4445.35 |
| Frozen Eggs (Hen/Fowl) | Qtls. | 698 | 14.00 |
| Frozen Mutton | Qtls. | 20 | 1.25 |
| Frozen Buffalo Meat | Qtls. | 5517 | 151.73 |
| Canned Shrimps | Qtls. | 91 | 11.66 |

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Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|---------------------------------|----------|----------|----------|
| (1) | (2) | (3) | (4) |
| Dried Shrimps | Qtls. | 451 | 328.50 |
| Dried Other Sea Foods | Qtls. | 330 | 14.49 |
| Dries Sea Cucumber | Qtls. | 800 | 0.97 |
| Chitin | Qtls. | 50 | 9.62 |
| Cotton Handloom Shoe Bags | Kgs. | 497 | 2.05 |
| Cotton Shopping Bags | Kgs. | 34642 | 46.26 |
| Cotton Blankets | Kgs. | 977 | 1.92 |
| Cotton Canvas Dyed Bags | Kgs. | 556 | 1.22 |
| Cotton Tassels | Kgs. | 563 | 4.03 |
| Cotton Dhurries/Floor Coverings | Kgs. | 458292 | 339.56 |
| Cotton Neck Tie | Kgs. | 15 | 0.25 |
| Cotton Cassocks | Kgs. | 50 | 0.04 |
| Cotton Laces | Kgs. | 12 | 4.75 |
| Cotton Socks | Kgs. | 754 | 2.63 |
| Cotton Handloom Pot Holders | Kgs. | 4957 | 21.16 |
| Cotton Pique | Kgs. | 3937 | 8.78 |
| Cotton Napkins | Kgs. | 2172 | 4.76 |
| Cotton Cushion Cover With Frill | Kgs. | 400 | 1.14 |
| Cotton Handloom Laundry Bags | Kgs. | 1391 | 3.20 |
| Handloom Edging Braids | Kgs. | 774 | 1.26 |
| Cotton Swaches for Rag Rugs | Kgs. | 34 | 0.01 |
| Cotton Knitting Accessories | Kgs. | 33 | 0.32 |
| Cotton Dress Materials | Kgs. | 163 | 0.85 |
| Cotton Hospital Bed | Kgs. | 1555 | 1.89 |
| Cotton Wool Surgical | Kgs. | 19630 | 9.95 |
| Cotton Bandages | Kgs. | 533 | 0.93 |
| Cotton Other Made Ups | Qtls. | 67427 | 16599.93 |
| Cotton Piece Goods | Sq.Mtrs. | 1634165 | 795.12 |
| Cotton Waste | Qtls. | 139 | 3.48 |
| Cotton Yarn/Thread etc. | Qtls. | 24437 | 3219.29 |
| Cotton Rag Dolls | Qtls. | 61 | 5.09 |
| Cotton Woven Labels | Qtls. | 22 | 0.25 |
| Cotton Quilt Mattress | Qtls. | 3540 | 2.56 |
| Cotton Quilted Bath Mats | Qtls. | 3638 | 7.87 |
| Cotton Squire Quilt Pillows | Qtls. | 485 | 0.53 |
| Cotton Single Filled Duck | Qtls. | 3255 | 2.38 |
| Cotton Voile Fabrics | Qtls. | 368 | 1.83 |
| Terry Cotton Shirts/Shirtings | Qtls. | 520 | 2.92 |
| Polyester Yarn/Thread etc. | Qtls. | 617 | 77.84 |
| Polyester Spun Viscose Yarn | Qtls. | 3936 | 262.41 |
| Polyester Garments | Qtls. | 287 | 130.82 |
| Polyester Spun Dhotis etc. | Kgs. | 10181 | 43.73 |
| Polyester Shirts/Shirtings | Kgs. | 31904 | 81.72 |
| Polyester Cotton Jackets | Kgs. | 21388 | 71.59 |
| Polyester Labels/Tags | Kgs. | 112 | 0.44 |

Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|---------------------------------------|-------|----------|---------|
| (1) | (2) | (3) | (4) |
| Polyester Padding | Kgs. | 13514 | 15.54 |
| Polyester Trousers | Kgs. | 330 | 2.01 |
| Polyester Sarees | Kgs. | 35 | 0.30 |
| Polyester Cloths/Fabrics | Kgs. | 8035 | 16.44 |
| Polyester Resins | Kgs. | 10560 | 4.62 |
| Polypropylene Fabrics/Materials | Kgs. | 60306 | 1281.59 |
| Polyurethane Foam Sheets (Interlined) | Kgs. | 2637 | 6.30 |
| Polythene Empty Bags | Kgs. | 171 | 0.06 |
| Hangers Poly Bags | Kgs. | 1492 | 4.66 |
| Viscose Black/White Trousers | Kgs. | 221 | 1.14 |
| Stapplr Fibre Yarn | Kgs. | 27840 | 19.04 |
| Canvas Shoes | Kgs. | 908 | 1.70 |
| Raptex | Kgs. | 636 | 5.29 |
| Rexine Products | Kgs. | 100 | 0.41 |
| Fishing Lines with Baits etc. | Kgs. | 12171 | 40.50 |
| Fishing Tackle with Accessories | Kgs. | 648 | 3.67 |
| Feeding Bottles with Nipples | Kgs. | 43597 | 73.15 |
| Blood Bags | Kgs. | 9200 | 19.00 |
| Tie Ribbon | Kgs. | 1200 | 3.28 |
| Raw Silk | Kgs. | 124 | 1.68 |
| Silk Fabrics | Kgs. | 987 | 9.30 |
| Silk Scarfs | Kgs. | 3 | 0.03 |
| Silk Carpets (Handknotted) | Kgs. | 5 | 0.10 |
| Art Silk Sarees | Kgs. | 3022 | 40.47 |
| Art Fabrics | Kgs. | 130 | 0.60 |
| Kashmir Moogra Green Saffron | Kgs. | 10 | 3.70 |
| Satin Fabrics | Kgs. | 20633 | 122.79 |
| Rayon/Viscose Yarn | Kgs. | 180 | 0.20 |
| Rayon Embroidery Yarn etc. | Kgs. | 21235 | 53.54 |
| Rayon Sarees | Kgs. | 146 | 1.64 |
| Rayon Fabrics | Kgs. | 6291 | 16.33 |
| Synthetic Rayon Sarees | Kgs. | 874 | 7.55 |
| Nylon Fabrics | Kgs. | 19718 | 52.12 |
| Nylon Trousers | Kgs. | 913 | 3.27 |
| Nylon Jackets | Kgs. | 80199 | 331.52 |
| Nylon Fishing Nets | Kgs. | 25004 | 50.54 |
| Nylon Monofilament Lines | Kgs. | 17446 | 32.16 |
| Maps made from Tubular Spun | Kgs. | 355 | 0.30 |
| Plastic Hangers | Kgs. | 648 | 0.60 |
| Plastic Cups | Kgs. | 36978 | 46.92 |
| Plastic Banana Tree | Kgs. | 14 | 0.03 |
| Plastic Visiting Card Box | Kgs. | 89 | 0.24 |
| Plastic Glass Bangles | Kgs. | 27 | 0.08 |
| Rubber Mats | Qts. | 5366 | 73.40 |
| Rubber Gallons Centrifugated | Qtls. | 286 | 0.11 |

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Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|----------------------------------|-------|----------|---------|
| (1) | (2) | (3) | (4) |
| Rubber Bands | Qtls. | 19 | 1.19 |
| Rubber Hair Band for Ladies | Qtls. | 4 | 0.03 |
| Rubber/Latex Gloves | Qtls. | 7399 | 761.21 |
| Rubber Sheet in Vulcanised | Qtls. | 188 | 7.20 |
| Rubber Battery Containers | Qtls. | 1125 | 32.62 |
| Rubber Moulded Goods | Qtls. | 8 | 1.96 |
| Rubber Tyre Tubes & Flaps | Qtls. | 54544 | 3739.81 |
| Rubber Gaskets for Machinery | Qtls. | 97 | 0.35 |
| Rubber Tyre Retreading Materials | Qtls. | 626 | 34.95 |
| Rubber Latex Pincore | Qtls. | 158 | 13.22 |
| Rubber Foot Wears | Kgs. | 52341 | 22.00 |
| Rubber Steps with Steel Clips | Kgs. | 4350 | 34.61 |
| Rubber Textile Components | Kgs. | 78 | 0.33 |
| Rubber Bushes | Kgs. | 154 | 0.66 |
| Rubber O' Rings | Kgs. | 4 | 0.14 |
| Rubber Natural | Qtls. | 380 | 11.00 |
| Books and Publications | Kgs. | 12299 | 5.19 |
| Ruled Paper | Kgs. | 1000 | 2.85 |
| Note Books | Kgs. | 67721 | 24.70 |
| Sheet Calender | Kgs. | 522 | 0.80 |
| Printed Card on Hand made Paper | Kgs. | 13 | 0.04 |
| Tissue Paper and Gum Sticks | Kgs. | 188 | 0.24 |
| Kraft Paper Sacks | Kgs. | 37 | 0.01 |
| Greeting Cards | Kgs. | 1733 | 1.30 |
| Air Mail Envelops | Kgs. | 3225 | 2.86 |
| Other Items made of paper | Kgs. | 150 | 0.08 |
| Goat Hair | Qtls. | 335 | 2.31 |
| Woollen Carpets | Kgs. | 4852 | 17.34 |
| Woollen Shawls/Jackets etc. | Kgs. | 34 | 0.29 |
| Artificial Hair | Kgs. | 30 | 0.03 |
| Gold Jewellery | Grms. | 138899 | 540.43 |
| Malayogam Soft Ware | Nos. | 3050 | 0.72 |
| Horlicks Jars | Kgs. | 47210 | 3.61 |
| Glass Bottles | Kgs. | 67000 | 4.19 |
| Tooth Powder | Kgs. | 192 | 0.31 |
| Tooth Paste | Kgs. | 96632 | 52.33 |
| Tooth Picks - Mint Flavoured | Kgs. | 41 | 0.20 |
| Dental Goods | Kgs. | 77 | 0.18 |
| Agarbathies | Kgs. | 10780 | 18.26 |
| Beedies | Kgs. | 10434 | 18.07 |
| Costume Powder | Kgs. | 233 | 0.43 |
| Liquid Cloth Whitener | Kgs. | 1741 | 1.80 |
| Lacquer Polish | Kgs. | 1785 | 1.42 |
| New Gunny (HDPE) | Kgs. | 140 | 5.75 |
| Leather Foot Wears | Kgs. | 3208 | 4.42 |
| Leather Jackets | Kgs. | 7 | 0.01 |
| Leather Bags/Belts | Kgs. | 150 | 0.42 |
| Leather Other Products | Kgs. | 203 | 1.13 |
| Oleoresin of Goods | Kgs. | 650341 | 3345.25 |
| Celery Oil | Kgs. | 10563 | 114.04 |

Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|----------------------------------|-------|----------|--------|
| (1) | (2) | (3) | (4) |
| Cassia Oil | Kgs. | 390 | 9.01 |
| Clove Oil | Kgs. | 3070 | 13.56 |
| Coconut Oil | Kgs. | 26030 | 21.20 |
| Curry Leaf Oil | Kgs. | 5 | 0.30 |
| Cummin seed Oil | Kgs. | 150 | 3.81 |
| Davana Oil | Kgs. | 22 | 1.45 |
| Dill Seed Oil | Kgs. | 2350 | 20.47 |
| Garlic Oil | Kgs. | 20 | 0.75 |
| Essential Oil | Kgs. | 674 | 14.15 |
| Gingelly Oil | Kgs. | 2000 | 1.44 |
| Ginger Oil | Kgs. | 2251 | 22.39 |
| Hair Oil | Kgs. | 1620 | 2.64 |
| Lemon Grass Oil | Kgs. | 32880 | 89.42 |
| Massage Oil | Kgs. | 2911 | 4.71 |
| Mustard Oil | Kgs. | 816 | 49.22 |
| Nutmeg Oil | Kgs. | 230 | 0.95 |
| Palmoosa Oil | Kgs. | 975 | 6.13 |
| Poppo Oil | Kgs. | 13282 | 85.28 |
| Sandalwood Oil | Kgs. | 400 | 27.21 |
| Sharkliver Crude Oil | Kgs. | 2016 | 5.99 |
| Spices (Drops) Oil | Kgs. | 144 | 1.59 |
| Tumeric Oil | Kgs. | 5 | 0.01 |
| Musk Xylol Bold Crystals | Kgs. | 1500 | 2.35 |
| Olibanam Resinoid | Kgs. | 570 | 2.97 |
| Menthol Crystals | Kgs. | 5000 | 12.07 |
| Cassia Flavours | Kgs. | 1234 | 1.78 |
| Dried Flowers | Kgs. | 11934 | 12.27 |
| Natural Food Colour | Kgs. | 4050 | 18.83 |
| Chloropropamide | Kgs. | 15940 | 37.00 |
| Tobultamide | Kgs. | 3500 | 8.18 |
| Apple Powder/Extract | Kgs. | 6124 | 5.82 |
| Barberto/Valarian Powder/Extract | Kgs. | 15500 | 7.30 |
| Curcumin | Kgs. | 10038 | 98.66 |
| Cummin Seed | Kgs. | 300 | 3.31 |
| Dock Root/Pasaaiflore | Kgs. | 2500 | 1.20 |
| Gotukola/Valerian | Kgs. | 34000 | 13.94 |
| Gymnema/Sylvsta | Kgs. | 2000 | 1.31 |
| Marigold | Kgs. | 50 | 0.44 |
| Musk Ambretta | Kgs. | 2900 | 10.44 |
| Neem Seed | Kgs. | 4527 | 88.30 |
| Off White Onion | Kgs. | 4000 | 1.44 |
| Sarasaparilla | Kgs. | 1975 | 0.67 |
| Senna Leaves | Kgs. | 400 | 3.11 |
| Spices | Kgs. | 4205 | 27.82 |
| Red Sanders | Kgs. | 2910 | 14.19 |
| Tamarind | Kgs. | 12020 | 10.65 |
| Yellow Kock Herb | Kgs. | 3062 | 1.78 |
| Diazepam BP-SS | Kgs. | 350 | 2.70 |
| Ayurvedic Preparations | Qtls. | 134 | 19.11 |
| Ayurvedic and Toilet Soap | Qtls. | 2296 | 154.31 |

Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|--------------------------------------|-------|----------|---------|
| (1) | (2) | (3) | (4) |
| Country Drugs | Qtls. | 685 | 19.70 |
| Herbal Products | Kgs. | 156 | 0.45 |
| Medicine for Animal Husbandry | Kgs. | 6380 | 1.87 |
| Aspirin Tablets | Kgs. | 1660 | 3.78 |
| Ampicillin Capsules | Kgs. | 1749 | 14.66 |
| Ampicillin Dry Syrups | Kgs. | 11150 | 4.92 |
| Ampicillin in Injection | Kgs. | 3183 | 5.78 |
| Amoxycillin Oral Suspension BP | Kgs. | 1064 | 1.69 |
| Contim Oxazole Oral Suspension | Kgs. | 739 | 2.61 |
| Paracetamol Tablets | Kgs. | 457 | 0.92 |
| Penicillin in Injection | Kgs. | 32807 | 73.27 |
| Sodium Chlorate & Dextrose Injection | Kgs. | 12006 | 1.91 |
| Stepromycin in Injection | Kgs. | 7600 | 14.37 |
| Other Medicines | Kgs. | 10150 | 5.78 |
| Laboratory Chemicals/Equipments | Kgs. | 4331 | 6.00 |
| Prawns Feed | Qtls | 180 | 5.06 |
| Fertilizer | M.T. | 203 | 9.98 |
| Dicalcium Phosphate | M.T. | 3646 | 235.28 |
| Ossolin | M.T. | 3343 | 1384.24 |
| Cashew Shell Liquid | M.T. | 2082 | 148.05 |
| Hydrochloric Acid | M.T. | 4220 | 91.64 |
| Phenol | M.T. | 103 | 17.54 |
| Insecticides | M.T. | 261 | 589.50 |
| Ferric Chloride | M.T. | 80 | 4.22 |
| Ferric Sulphate | M.T. | 60 | 2.12 |
| Didnium Carbonate | M.T. | 12 | 4.50 |
| Rare Earth Chloride/Fluorides | M.T. | 2186 | 585.14 |
| Magnesium Sulphate | M.T. | 147 | 13.44 |
| Iliminite | M.T. | 60 | 4.69 |
| Potassium Chlorite | M.T. | 562 | 157.92 |
| Granular Silminite | M.T. | 318 | 14.07 |
| Welding Electrodes | M.T. | 2 | 0.39 |
| Silcorn Carbide | M.T. | 145 | 19.75 |
| Cerium Hydrate | M.T. | 60 | 36.22 |
| Abrasive Products | M.T. | 151 | 23.47 |
| Aluminium Oxide Grains | M.T. | 25 | 32.88 |
| Ammonium BI Fluoride | M.T. | 30 | 17.73 |
| Dried Kaolin (Quartz Powder) | M.T. | 95 | 4.32 |
| Zircon Sand | M.T. | 63 | 2.61 |
| Caustic Soda Flakes | M.T. | 60 | 6.92 |
| Ethil Silicate | M.T. | 2 | 1.43 |
| Ferrous Sulphate | M.T. | 75 | 3.10 |
| Natural Acetone | M.T. | 591 | 6.14 |
| Asbestos Sheets | M.T. | 2386 | 52.34 |
| Asbestos Roofing Accessories | M.T. | 124 | 4.59 |
| Grey Cement | M.T. | 72 | 1.92 |
| White Cement | M.T. | 156 | 2.30 |
| River Sant/Stone | M.T. | 24 | 1.84 |
| Granite Blocks | M.T. | 91 | 22.42 |
| Granite Slabs Polished | M.T. | 98 | 26.01 |

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Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|--------------------------------------|-------|----------|--------|
| (1) | (2) | (3) | (4) |
| Granite Tiles/Vases Polished | M.T. | 292 | 19.17 |
| Aluminium Bus Bar | Qtls. | 560 | 22.45 |
| Aluminium Rods | Qtls. | 2698 | 114.64 |
| Aluminium Sections | Qtls. | 704 | 41.84 |
| Aluminium Utensil | Qtls. | 11546 | 11.66 |
| Aluminium Plates | Qtls. | 5088 | 3.30 |
| Aluminium Trophy | Kgs. | 40 | 0.04 |
| Aluminium Milk Cans etc | Kgs. | 200 | 0.53 |
| Aluminium Profiles in Finished Alloy | Kgs. | 294 | 12.13 |
| Aluminium Vessels | Kgs. | 4147 | 3.85 |
| Aluminium/Alloy Bus Bar | Kgs. | 144 | 4.65 |
| Aluminium Brass Vessels | Kgs. | 5183 | 6.75 |
| Aluminium Other Products | Qtls. | 1016 | 111.66 |
| Hammocks | Kgs. | 258 | 0.26 |
| Glass Lamps - Infra Brand | Kgs. | 2500 | 2.72 |
| Steel Valves | M.T. | 259 | 132.63 |
| Steel Wire Ropes | M.T. | 53 | 17.94 |
| Steel Castings | M.T. | 288 | 151.18 |
| Steel Body & Bonnet Castings | M.T. | 53 | 21.50 |
| Steel Stay Wire | M.T. | 36 | 7.49 |
| Steel Bushes | M.T. | 4 | 9.78 |
| Steel Leaf Spring Assembly | M.T. | 866 | 113.28 |
| Steel Wire Galvanised | M.T. | 20 | 3.98 |
| Steel Disc | M.T. | 3 | 4.00 |
| Steel Pipes Galvanised | M.T. | 109 | 16.74 |
| Steel Empty Drums TE/LA | M.T. | 54 | 6.24 |
| Steel Empty Cylinders | M.T. | 6 | 2.96 |
| Conductors | M.T. | 260 | 114.06 |
| Marine Freight Containers | M.T. | 2004 | 794.88 |
| Bison ADSR Coile(Aluminium+Steel) | M.T. | 615 | 287.50 |
| Damper Tanks | M.T. | 23 | 19.14 |
| CNK Slant Bed Turning Machine | M.T. | 15 | 40.09 |
| Textile Machinery | M.T. | 7 | 13.29 |
| Industrial Castings | Qtls. | 205 | 7.21 |
| Machinery | Qtls. | 236 | 98.50 |
| Wall Clock & Parts | Qtls. | 51 | 10.18 |
| Quartz Clock | Qtls. | 150 | 0.53 |
| Industrial/Automotive Chains | Qtls. | 452 | 55.13 |
| Iron Castings | Qtls. | 1752 | 83.45 |
| Auto Spares | Qtls. | 1820 | 566.53 |
| Hydraulic Lifts & Parts | Qtls. | 121 | 7.07 |
| Semi Hydraulic Lifts & Parts | Qtls. | 50 | 2.84 |
| Brake Equipments | Qtls. | 33 | 1.44 |
| HEPE/LLDPE Brown Filament Plant | Qtls. | 42 | 5.88 |
| Mono Block Pump (Centrifugated) | Qtls. | 17 | 1.49 |
| Water Pump | Qtls. | 54 | 3.91 |
| Tea Machinery | Qtls. | 58 | 7.27 |
| Canning Machinery Unit | Qtls. | 18 | 21.89 |
| Automatic Boiler Control | Qtls. | 54 | 46.37 |
| Vertical Fire Boring Machine | Qtls. | 4800 | 10.55 |

Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|---|-------|----------|-------|
| (1) | (2) | (3) | (4) |
| Vaccum Cleaner Dust Collection Bags | Qtls. | 38 | 3.61 |
| Wet Grinder | Qtls. | 39 | 4.84 |
| H.S. Gear (Iron) | Qtls. | 12 | 0.55 |
| Unions | Qtls. | 113 | 0.24 |
| Chappathi Press | Qtls. | 60 | 3.81 |
| Weavingloom Accessories etc | Qtls. | 4 | 2.19 |
| P.V.C. Mfgd. Unit | Qtls. | 54 | 1.74 |
| Bakery Equipments | Qtls. | 725 | 0.30 |
| Iron Nails | Qtls. | 88 | 2.54 |
| Diesel Welding Set with Spares | Qtls. | 36 | 7.49 |
| Spooling Machine | Qtls. | 27 | 3.28 |
| Coir Machinery | Qtls. | 218 | 34.43 |
| Accessories for Garment Industries | Qtls. | 605 | 3.71 |
| Machine Casted Pipe Fittings | Qtls. | 507 | 23.16 |
| Components for water pump/Motors | Qtls. | 61 | 10.67 |
| Equipments | Qtls. | 22 | 2.19 |
| Tyre Retreading/Vulcanising Machinery | Qtls. | 104 | 12.01 |
| Cutting Machine Tools | Qtls. | 57 | 31.54 |
| Bearing Rings of Steel | Kgs. | 160 | 1.44 |
| Machinery Tools | Kgs. | 20 | 25.41 |
| Tool Holders for Lathe | Kgs. | 165 | 2.89 |
| Industrial part of Sleeving Rim of Disc | Kgs. | 150 | 2.79 |
| Threaded Bushes and Spring Pins | Kgs. | 873 | 1.84 |
| Sealing Machine | Kgs. | 295 | 1.15 |
| Out Board Engine | Kgs. | 400 | 1.54 |
| Marine Spares | Kgs. | 219 | 1.67 |
| Coller Cutting Machine | Kgs. | 520 | 0.13 |
| Orthopeadic Applicances | Kgs. | 320 | 1.98 |
| Injection Needles (Assorted) | Kgs. | 1020 | 1.50 |
| Sewing Needles & Pins etc | Kgs. | 894 | 3.63 |
| Thread Bushes | Kgs. | 269 | 0.59 |
| Spares for Lubrication Pump | Kgs. | 9 | 0.08 |
| Platfoam Scale | Kgs. | 74 | 0.09 |
| Washer Talson Crankle | Kgs. | 219 | 0.64 |
| Plastic Building Machine | Kgs. | 850 | 0.41 |
| Cap Gaskets | Kgs. | 288 | 0.66 |
| Screw & Nuts Galvanised | Kgs. | 265 | 0.27 |
| Wood Ward Governor | Kgs. | 88 | 2.00 |
| Foot Valve Cum Filter Unit | Kgs. | 160 | 0.75 |
| Oil Pump (Protoble) | Kgs. | 1490 | 0.26 |
| Boat Winch | Kgs. | 1469 | 0.77 |
| Mono Block Water Pump | Kgs. | 1003 | 0.85 |
| Cutting Machine | Kgs. | 58 | 0.62 |
| Pipe Fittings | Kgs. | 1321 | 0.82 |
| Pressing Box (Iron) | Kgs. | 75 | 0.01 |
| Paper Curring Machine | Nos. | 2 | 0.32 |
| Compressors | Kgs. | 16843 | 15.90 |
| Transformers | Kgs. | 31880 | 65.48 |
| Frosted Glass Lamps | Kgs. | 4800 | 5.29 |
| Electrical Fittings | Kgs. | 106 | 0.02 |

Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|--------------------------------------|-------|----------|--------|
| (1) | (2) | (3) | (4) |
| D.T.Control Thermo Couples | Kgs. | 200 | 2.31 |
| Spares for Tube Splicer | Kgs. | 33 | 0.87 |
| Terminal Connectors of Transformers | Kgs. | 579 | 0.76 |
| Hammocks | Kgs. | 258 | 0.26 |
| Items Made of Scion Machined | Qtls. | 26 | 1.26 |
| Tube Cooling Tungton Lamps | Nos. | 35000 | 4.80 |
| Rod & Cap Grinder | Nos. | 4 | 0.47 |
| Bicycle | Nos. | 6 | 0.21 |
| Motor Cycle | Nos. | 360 | 56.96 |
| Motor Cars | Nos. | 2 | 10.90 |
| Motor Tractor With set | Nos. | 2 | 10.32 |
| Tipper Truck with set | Nos. | 110 | 46.91 |
| Valve Seat Cutting Machine | Nos. | 1 | 0.03 |
| Grinding Machine | Nos. | 1 | 0.14 |
| Shaft Impregater | Nos. | 1 | 5.37 |
| Tools | Nos. | 1 | 1.55 |
| D C Power Supply Unit | Nos. | 3 | 0.84 |
| Automatic Boiler Control Burners | Nos. | 1 | 50.92 |
| Car Lift | Nos. | 1 | 0.55 |
| Oil Collection Bags with Sieve | Nos. | 400 | 1.39 |
| Kitchen Mixy | Nos. | 2 | 0.11 |
| Electronic Equipmental Parts etc | Kgs. | 14818 | 118.17 |
| Furnace Digital Control Systems etc | Kgs. | 2830 | 1.16 |
| Electronic Telephones | Kgs. | 26 | 1.10 |
| Spectra Physics | Kgs. | 8 | 5.39 |
| Photographic Chairs (Elec. Operated) | Kgs. | 320 | 2.00 |
| Eliminator | Kgs. | 1262 | 0.81 |
| Compass Computer | Kgs. | 10 | 8.13 |
| Wax Candle (Ear Candle) | Nos. | 98000 | 1.65 |
| Wax Stick (Ear Cleaner) | Nos. | 1000 | 0.01 |
| Gate Nuts | Kgs | 71 | 0.73 |
| Spares/Tools and Exhibition Aids | Kgs. | 50 | 0.08 |
| Gymnastic Equipments | Kgs. | 320 | 0.02 |
| Palmyra | Qtls. | 140 | 5.36 |
| Antivibration Pad | Qtls. | 97 | 6.99 |
| Bloak Boards | Qtls. | 7909 | 193.90 |
| Hard Board | Qtls. | 3428 | 34.25 |
| Card Board Cartons | Qtls. | 8 | 0.66 |
| Display Board | Qtls. | 40 | 0.15 |
| Tea Chest Pannels | Qtls. | 770 | 9.36 |
| Plywood | Qtls. | 21920 | 314.54 |
| Rotary Peeled Veneers | Qtls. | 680 | 10.31 |
| Veneers of Woods | Qtls. | 2231 | 288.40 |
| Teak Wood Items | M.T. | 7 | 7.27 |
| Rosewood Items | M.T. | 208 | 142.53 |
| Other Wood Items | M.T. | 5 | 3.51 |
| Jamil Handles Teak Wood | Kgs. | 263 | 0.84 |
| Wood-Musical Instrumental Parts | Qtls. | 5628 | 416.25 |
| Wood-Handicrafts & Curios | Kgs. | 182502 | 185.28 |
| Woodenware (Home/Kitchen) | Kgs. | 13904 | 14.88 |

Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|--------------------------------------|------|----------|-------|
| (1) | (2) | (3) | (4) |
| Wooden Carved Doors/Windows | Kgs. | 8703 | 21.81 |
| Metal Artware | Kgs. | 4556 | 6.73 |
| Wooden Artware | Kgs. | 108891 | 49.59 |
| Timbex Jigsaw Machine Throat | Kgs. | 176 | 0.15 |
| Wooden Rods | Kgs. | 2500 | 0.47 |
| Wooden Screen | Nos. | 1 | 0.04 |
| Coconut Shell Cups | Kgs. | 64469 | 14.00 |
| Coconut & Phool Jadu (Brooms) | Kgs. | 5169 | 1.15 |
| Grass Mats & Matings | Kgs. | 72680 | 24.20 |
| Wall Carpets | Kgs. | 14 | 0.16 |
| Cora Grass Baskets | Kgs. | 2000 | 1.41 |
| Vine Baskets | Kgs. | 13301 | 3.04 |
| Door Steps Rubberised | Kgs. | 1160 | 0.36 |
| Rubber Wood Components | Kgs. | 2271 | 0.59 |
| Bathroom Cabinet etc | Kgs. | 29333 | 29.79 |
| Wooden Bunch with Cane | Nos. | 1 | 0.05 |
| Wiring Desk | Nos. | 1 | 0.19 |
| Wooden Cot Frame | Kgs. | 32 | 0.04 |
| Wooden Carved Table Stand/Lamp Stand | Kgs. | 200 | 0.03 |
| Building Models | Kgs. | 74 | 0.03 |
| Musical Instruments | Kgs. | 159 | 0.35 |
| Artificial Plants | Kgs. | 8674 | 1.56 |
| Wooden Pins | Kgs. | 240 | 0.15 |
| Saloon Chairs | Kgs. | 382 | 0.07 |
| Garden Chairs | Kgs. | 397 | 0.09 |
| Door Shutters | Kgs. | 17 | 0.01 |
| Platform Brush of Coconut Fibre | Kgs. | 5598 | 1.23 |
| Cane Furniture | Kgs. | 9450 | 2.22 |
| Gift Parcel | Kgs. | 36 | 0.03 |
| Wooden Mortoe | Kgs. | 55 | 0.01 |
| Bed Composition | Kgs. | 275 | 0.74 |
| Advertising Materials | Kgs. | 110 | 0.03 |
| Complimentary Items | Kgs. | 793 | 0.31 |
| Study Materials | Kgs. | 127 | 0.03 |
| Mosquito Coils & Geometry Box | Kgs. | 312 | 0.24 |
| Gypsum | Kgs. | 522 | 0.55 |
| Traditional Lamps | Kgs. | 39 | 0.02 |
| Rubber Wood Struds/Table Legs | Kgs. | 15 | 0.56 |
| Granite Idol of 'NANDHI' | Kgs. | 555 | 0.01 |
| Hand Made Lucky Bags | Kgs. | 4650 | 1.73 |
| Wasso Bacc/Rai | Kgs. | 24572 | 24.90 |
| Wenin Bin | Kgs. | 15624 | 7.08 |
| Weight Lifting Materials | Kgs. | 956 | 0.10 |
| Rosewood Cup Board Art Work | Kgs. | 95 | 0.52 |
| Terracotton Items | Kgs. | 29679 | 1.85 |
| Teetha Pannels (Rose Wood) | Kgs. | 19 | 0.11 |
| Fibre/Palm Cups & Flowers | Kgs. | 3975 | 0.42 |
| Mathakali Sculpture | Kgs. | 61 | 0.05 |
| Ceramic Floor Tiles | Kgs. | 500 | 0.05 |
| Altered Marble Wash Basin | Kgs. | 20 | 0.01 |

Item-wise Export through Kochi Port During 1993-94 (Contd.....)

(Value in Rs. Lakhs)

| Commodity | Unit | Quantity | Value |
|---------------------|-------|----------|------------------|
| (1) | (2) | (3) | (4) |
| Decorative Tiles | Kgs. | 525 | 0.01 |
| Clay/Glass Art Work | Kgs. | 225 | 0.43 |
| Pottery Materials | Kgs. | 20842 | 0.37 |
| Clay Jars | Nos. | 1 | 0.15 |
| Porcelain Saddles | Kgs. | 562 | 1.03 |
| Clay Pot | Kgs. | 1886 | 0.96 |
| Ceramic Jars | Kgs. | 1200 | 0.08 |
| Assorted Crockeries | Kgs. | 664 | 0.52 |
| Tiles & Bricks | Qtls. | 951 | 22.55 |
| Others | .. | .. | 22303.44 |
| Total | .. | .. | 189136.67 |

Source: Indian Chamber of Commerce and Industry, Kochi

APPENDIX 8.2

Export of Coir Yarn from India from 1989-90 to 1993-94

(Q = Quantity in M.T.; V = Value in Rs. 000's)

| Trade Division | 1989-90 | | 1990-91 | | 1991-92 | | 1992-93 | | 1993-94 | |
|--------------------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|
| | Q | V | Q | V | Q | V | Q | V | Q | V |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Africa | 32 | 370 | 18 | 234 | 46 | 913 | 48 | 927 | 26 | 557 |
| America | 446 | 4813 | 584 | 7414 | 660 | 11326 | 494 | 8795 | 820 | 16449 |
| East Asia | 381 | 4274 | 13 | 146 | 4 | 82 | 27 | 525 | .... | 2 |
| South Asia | 49 | 309 | 13 | 159 | 167 | 2593 | 102 | 1498 | 114 | 2264 |
| West Asia | 868 | 8190 | 870 | 9058 | 1055 | 13218 | 889 | 12040 | 909 | 13857 |
| East Europe | 564 | 5764 | 212 | 2374 | 248 | 3826 | 204 | 3463 | 130 | 2704 |
| West Europe | 11125 | 110206 | 11861 | 144651 | 12084 | 185127 | 9326 | 162953 | 10845 | 211608 |
| Other European Countries | 306 | 3041 | 539 | 6549 | 1002 | 15738 | 353 | 6417 | 804 | 16279 |
| Total | 13771 | 136967 | 14110 | 170585 | 15266 | 232823 | 11443 | 196618 | 13648 | 263720 |

Source: Coir Board, Kochi

APPENDIX 8.3

Export of Coir Mats from India from 1989-90 to 1993-94

(Q = Quantity in M.T., V = Value in Rs. 000's)

| Trade Division | 1989-90 | | 1990-91 | | 1991-92 | | 1992-93 | | 1993-94 | |
|--------------------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| | Q | V | Q | V | Q | V | Q | V | Q | V |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Africa | 50 | 902 | 72 | 1565 | 60 | 1919 | 109 | 5258 | 86 | 3423 |
| America | 1817 | 33808 | 1873 | 39218 | 3286 | 112035 | 4828 | 183798 | 5726 | 245455 |
| East Asia | 1308 | 22623 | 1142 | 23075 | 1273 | 37495 | 1742 | 58764 | 1747 | 75528 |
| South Asia | 5 | 71 | 20 | 426 | 23 | 573 | 42 | 1383 | 94 | 3248 |
| West Asia | 392 | 7516 | 299 | 6418 | 548 | 17741 | 658 | 23899 | 606 | 25834 |
| East Europe | 168 | 4232 | 55 | 1629 | 130 | 4679 | 35 | 1204 | 29 | 940 |
| West Europe | 4453 | 86458 | 5496 | 128616 | 5760 | 179668 | 6308 | 229857 | 7564 | 330760 |
| Other European Countries | 80 | 1558 | 52 | 1239 | 83 | 2825 | 65 | 4074 | 93 | 4008 |
| Total | 8273 | 157168 | 9009 | 202186 | 11163 | 356935 | 13787 | 508237 | 15945 | 689198 |

Source: Coir Board, Kochi

APPENDIX 8.4

Export of Coir Matings from India from 1989-90 to 1993-94

(Q = Quantity in M.T.; V = Value in Rs. 000's)

| Trade Division | 1989-90 | | 1990-91 | | 1991-92 | | 1992-93 | | 1993-94 | |
|--------------------------|---------|-------|---------|-------|---------|--------|---------|--------|---------|--------|
| | Q | V | Q | V | Q | V | Q | V | Q | V |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Africa | 3 | 61 | .... | 5 | .... | .... | 54 | 2063 | 53 | 2282 |
| America | 354 | 5986 | 490 | 10003 | 563 | 19336 | 638 | 22699 | 621 | 28076 |
| East Asia | 282 | 6006 | 185 | 4454 | 236 | 8736 | 381 | 17776 | 354 | 17432 |
| South Asia | 4 | 58 | .... | .... | 19 | 622 | 45 | 1514 | 161 | 5939 |
| West Asia | 27 | 641 | 8 | 204 | 4 | 192 | 29 | 1112 | 41 | 2239 |
| East Europe | .... | .... | .... | .... | .... | .... | 10 | 328 | .... | .... |
| West Europe | 2882 | 61172 | 2673 | 64641 | 2774 | 88966 | 3368 | 130296 | 3979 | 173621 |
| Other European Countries | 28 | 568 | 6 | 147 | 48 | 1520 | 53 | 1801 | 53 | 2216 |
| Total | 3580 | 74492 | 3362 | 79449 | 3644 | 119372 | 4577 | 177589 | 5262 | 231805 |

Source: Coir Board, Kochi

APPENDIX 8.5

Export of Coir Rugs & Carpets from India from 1989-90 to 1993-94

(Q = Quantity in M.T., V = Value in Rs. 000's)

| Trade Division | 1989-90 | | 1990-91 | | 1991-92 | | 1992-93 | | 1993-94 | |
|--------------------------|-------------|--------------|-------------|--------------|------------|--------------|-------------|--------------|-------------|--------------|
| | Q | V | Q | V | Q | V | Q | V | Q | V |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Africa | .... | .... | .... | .... | .... | .... | .... | .... | 14 | 825 |
| America | 181 | 4178 | 251 | 7182 | 372 | 15549 | 904 | 38169 | 951 | 47897 |
| East Asia | .... | .... | 1 | 14 | 5 | 199 | 22 | 1090 | 60 | 3217 |
| South Asia | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| West Asia | .... | .... | .... | .... | .... | .... | .... | .... | 3 | 222 |
| East Europe | 1313 | 22968 | 770 | 13898 | .... | .... | .... | .... | .... | .... |
| West Europe | 72 | 1599 | 182 | 5565 | 210 | 7695 | 390 | 17536 | 559 | 29002 |
| Other European Countries | 6 | 165 | 4 | 148 | 16 | 686 | 11 | 594 | 49 | 2763 |
| Total | 1572 | 28910 | 1208 | 26807 | 603 | 24129 | 1327 | 57389 | 1636 | 83926 |

Source: Coir Board, Kochi

APPENDIX - 9.1

DISTRICT WISE POPULATION PROFILE : 1991

| Sl. No | District | Area Km ² | Population 1991 | Sex Ratio | Growth rate 1981-91 | Density per Km ² | Effective Literacy rate (Percent) | | |
|--------|--------------------|----------------------|-----------------|-----------|---------------------|-----------------------------|-----------------------------------|-------|--------|
| | | | | | | | Total | Male | Female |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| KERALA | | 38,863 | 29,098,518 | 1,036 | 14.32 | 749 | 89.81 | 93.62 | 86.17 |
| 1. | Kasaragod | 1,992 | 1,071,508 | 1,026 | 22.78 | 538 | 82.51 | 88.97 | 76.29 |
| 2. | Kannur | 2,966 | 2,251,727 | 1,049 | 16.63 | 759 | 91.48 | 95.54 | 87.65 |
| 3. | Wayanad | 2,131 | 672,128 | 966 | 21.32 | 315 | 82.73 | 87.59 | 77.69 |
| 4. | Kozhikode | 2,344 | 2,619,941 | 1,027 | 16.69 | 1,118 | 91.10 | 95.58 | 86.79 |
| 5. | Malappuram | 3,550 | 3,096,330 | 1,053 | 28.87 | 872 | 87.94 | 92.08 | 84.09 |
| 6. | Palakkad | 4,480 | 2,382,235 | 1,061 | 16.52 | 532 | 81.27 | 87.24 | 75.72 |
| 7. | Thriessur | 3,032 | 2,737,311 | 1,085 | 12.20 | 903 | 90.13 | 93.77 | 86.94 |
| 8. | Emakulam | 2,407 | 2,817,236 | 1,000 | 11.12 | 1,170 | 92.35 | 95.46 | 89.27 |
| 9. | Idukki | 5,019 | 1,078,066 | 975 | 11.22 | 215 | 86.94 | 90.82 | 82.96 |
| 10. | Kottayam | 2,203 | 1,828,271 | 1,003 | 7.71 | 830 | 95.72 | 97.46 | 94.00 |
| 11. | Alappuzha | 1,414 | 2,001,217 | 1,051 | 7.28 | 1,415 | 93.87 | 96.79 | 91.12 |
| 12. | Pathanamthitta | 2,642 | 1,188,332 | 1,062 | 5.60 | 450 | 94.86 | 96.55 | 93.29 |
| 13. | Kollam | 2,491 | 2,407,566 | 1,035 | 10.68 | 967 | 90.47 | 94.09 | 87.00 |
| 14. | Thiruvananthapuram | 2,192 | 2,946,650 | 1,036 | 13.50 | 1,344 | 89.22 | 92.84 | 85.76 |

Source: Census of India - Kerala - Final Population Table

APPENDIX - 9.2

NUMBER OF SCHOOLS IN KERALA - GOVERNMENT

| Year | L.P. Sector | | | U.P. Sector | | |
|-----------|--------------|-------------------------|-----------------------|--------------|----------------------|--------------|
| | L.P. Schools | L.P. Sections in U.P.S. | L.P. Sections in H.S. | U.P. Schools | U.P. Section in H.S. | High Schools |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1984 - 85 | 2624 | 853 | 407 | 906 | 801 | 934 |
| 1985 - 86 | 2167 | 861 | 378 | 915 | 800 | 934 |
| 1986 - 87 | 2608 | 866 | 409 | 926 | 803 | 938 |
| 1987 - 88 | 2605 | 875 | 405 | 928 | 802 | 939 |
| 1988 - 89 | 2607 | 871 | 408 | 933 | 804 | 940 |
| 1989 - 90 | 2608 | 878 | 407 | 934 | 805 | 941 |
| 1990 - 91 | 2565 | 900 | 427 | 960 | 825 | 961 |
| 1991 - 92 | 2565 | 898 | 425 | 960 | 826 | 963 |
| 1992 - 93 | 2555 | 898 | 425 | 960 | 826 | 963 |
| 1993 - 94 | 2520 | 898 | 424 | 959 | 828 | 967 |

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. Schools | L.P. Sections in U.P.S. | L.P. Sections in H.S | U.P. Schools | U.P. Section in H.S | High Schools |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1984 - 85 | 4094 | 1305 | 176 | 1889 | 1035 | 1370 |
| 1985 - 86 | 4083 | 1323 | 176 | 1890 | 1038 | 1380 |
| 1986 - 87 | 4079 | 1302 | 173 | 1889 | 1036 | 1383 |
| 1987 - 88 | 4075 | 1288 | 184 | 1888 | 1042 | 1382 |
| 1988 - 89 | 4073 | 1286 | 178 | 1886 | 1037 | 1382 |
| 1989 - 90 | 4069 | 1293 | 175 | 1885 | 1036 | 1379 |
| 1990 - 91 | 4068 | 1293 | 175 | 1883 | 1037 | 1380 |
| 1991 - 92 | 4067 | 1293 | 173 | 1883 | 1034 | 1380 |
| 1992 - 93 | 4067 | 1293 | 173 | 1883 | 1034 | 1380 |
| 1993 - 94 | 4045 | 1293 | 169 | 1880 | 1032 | 1379 |

Source: Directorate of Public Instruction, Thiruvananthapuram.

APPENDIX - 9.4

NUMBER OF SCHOOLS IN KERALA - UNAIDED

| Year | L.P. Sector | | | U.P. Sector | | |
|-----------|--------------|----------------------------|-------------------------|--------------|------------------------|--------------|
| | L.P. Schools | L.P. Sections in U.P.S. | L.P. Sections in H.S | U.P. Schools | U.P. Section in H.S | High Schools |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1984 - 85 | 131 | 28 | 44 | 61 | 78 | 93 |
| 1985 - 86 | 145 | 29 | 47 | 64 | 84 | 108 |
| 1986 - 87 | 141 | 37 | 53 | 69 | 91 | 109 |
| 1987 - 88 | 136 | 39 | 55 | 69 | 90 | 110 |
| 1988 - 89 | 139 | 39 | 58 | 71 | 95 | 110 |
| 1989 - 90 | 135 | 42 | 47 | 73 | 88 | 110 |
| 1990 - 91 | 134 | 41 | 47 | 72 | 88 | 111 |
| 1991 - 92 | 151 | 46 | 63 | 92 | 109 | 129 |
| 1992 - 93 | 147 | 45 | 63 | 88 | 109 | 129 |
| 1993 - 94 | 137 | 44 | 63 | 80 | 111 | 129 |

Source: Directorate of Public Instruction, Thiruvananthapuram.

APPENDIX - 9.5

PROGRESS OF EDUCATIONAL INSTITUTIONS FROM 1961 - 62 TO 1993 - 94

| Year | H.S | U.P.S | L.P.S | 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 | 2536 | 6917 | 10833 |
| 1969 - 70 | 1382 | 2532 | 6928 | 10842 |
| 1970 - 71 | 1384 | 2543 | 6895 | 10822 |
| 1971 - 72 | 1393 | 2551 | 6895 | 10839 |
| 1972 - 73 | 1399 | 2650 | 6887 | 10786 |
| 1973 - 74 | 1404 | 2548 | 6904 | 10856 |
| 1974 - 76 | 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 | 2076 | 2779 | 6811 | 11665 |
| 1982 - 83 | 2154 | 2763 | 6817 | 11734 |
| 1983 - 84 | -- | -- | -- | -- |
| 1984 - 85 | 2397 | 2856 | 6848 | 12101 |
| 1985 - 86 | 2122 | 2862 | 6396 | 11670 |
| 1986 - 87 | 2430 | 2884 | 6828 | 12142 |
| 1987 - 88 | 2431 | 2885 | 6817 | 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 |

APPENDIX - 9.6

ENROLMENT OF STUDENTS IN SCHOOLS - DISTRICT WISE AND STAGE WISE 1994

| District | L.P | | | U.P | | | H.S | | | Total | | |
|--------------------|----------------|----------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|----------------|----------------|
| | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total |
| Thiruvananthapuram | 107465 | 164726 | 212191 | 85045 | 81133 | 166178 | 72495 | 74997 | 147492 | 265005 | 260856 | 525861 |
| Kollam | 84701 | 81827 | 166528 | 75303 | 70822 | 146125 | 68061 | 68230 | 136291 | 228065 | 220879 | 448944 |
| Pathanamthitta | 39738 | 38550 | 78288 | 33730 | 31413 | 65143 | 32437 | 32149 | 64586 | 105905 | 102112 | 208017 |
| Alappuzha | 64789 | 62710 | 127499 | 57065 | 53559 | 110624 | 54645 | 54405 | 108950 | 176399 | 170674 | 347073 |
| Kottayam | 64419 | 60818 | 125237 | 51819 | 48644 | 100463 | 47983 | 50335 | 98318 | 164221 | 159797 | 324018 |
| Idukki | 37789 | 35149 | 72938 | 31500 | 28800 | 60300 | 25416 | 26681 | 52097 | 94705 | 90630 | 185335 |
| Emakulam | 92362 | 88197 | 180559 | 80111 | 74493 | 154604 | 73181 | 75304 | 148485 | 245654 | 237994 | 483648 |
| Thrissur | 110642 | 105387 | 216029 | 86419 | 80394 | 166813 | 70490 | 73563 | 144053 | 267551 | 259344 | 526895 |
| Palakkad | 111080 | 107294 | 218374 | 85424 | 81166 | 166590 | 61633 | 62749 | 124382 | 258137 | 251209 | 509346 |
| Malappuram | 180248 | 170571 | 350819 | 133125 | 126738 | 259863 | 95972 | 97601 | 193574 | 409345 | 394911 | 804256 |
| Kozhikode | 112344 | 105967 | 218311 | 95348 | 88679 | 184027 | 78438 | 81836 | 160274 | 286130 | 276782 | 562612 |
| Wayanad | 31567 | 30105 | 61672 | 24068 | 22734 | 46802 | 17772 | 18604 | 36376 | 73407 | 71443 | 144850 |
| Kannur | 98907 | 93089 | 191996 | 82574 | 77385 | 159959 | 69845 | 71505 | 141350 | 251326 | 241979 | 493305 |
| Kasaragode | 53861 | 50750 | 104611 | 41410 | 37936 | 79346 | 31004 | 28984 | 59988 | 126275 | 117670 | 243945 |
| Total | 1189912 | 1135140 | 2325052 | 962941 | 903896 | 1866837 | 799272 | 816944 | 1616216 | 2952125 | 2855980 | 5808105 |

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Source: Directorate of Public Instruction, Thiruvananthapuram.

APPENDIX - 9.7

STANDARD WISE STRENGTH OF STUDENTS - 1994

| Standard | Government | | | Private Aided | | | Private Unaided | | | Total | | |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|--------------|---------------|----------------|----------------|----------------|
| | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total |
| I | 106549 | 101708 | 208257 | 156449 | 152693 | 309142 | 11826 | 11368 | 23194 | 274824 | 265769 | 540593 |
| II. | 118802 | 112445 | 231247 | 171149 | 163859 | 335008 | 11594 | 10787 | 22381 | 301545 | 287091 | 588636 |
| III. | 120304 | 113419 | 233723 | 172548 | 163804 | 336352 | 10800 | 10019 | 20819 | 303652 | 287242 | 590894 |
| IV. | 125297 | 117956 | 243253 | 174728 | 167650 | 342378 | 9866 | 9432 | 19298 | 309891 | 295038 | 604929 |
| V. | 110501 | 101004 | 211505 | 192487 | 182154 | 374651 | 9850 | 8198 | 18048 | 312848 | 291356 | 604204 |
| VI. | 110431 | 103548 | 213979 | 195775 | 184685 | 380460 | 9235 | 7535 | 16770 | 315441 | 295768 | 611209 |
| VII. | 116247 | 110042 | 226289 | 210008 | 199807 | 409815 | 8397 | 6923 | 15320 | 334652 | 316772 | 651424 |
| VIII. | 126875 | 121413 | 248288 | 181836 | 176209 | 358045 | 7377 | 6899 | 14276 | 316088 | 304521 | 620609 |
| IX. | 109999 | 112806 | 222805 | 158220 | 164614 | 322834 | 6677 | 6393 | 13070 | 274896 | 283813 | 558709 |
| X. | 83126 | 89530 | 172656 | 119068 | 133417 | 252485 | 6094 | 5663 | 11757 | 208288 | 228610 | 436898 |
| Total | 1128131 | 1083877 | 2212002 | 1732278 | 1686892 | 3421170 | 91716 | 83217 | 174933 | 2952125 | 2855980 | 5808105 |

Source: Directorate of Public Instruction, Thiruvananthapuram.

APPENDIX - 9.8

ENROLMENT OF STUDENTS IN GOVERNMENT-AIDED AND UNAIDED SCHOOLS - STANDARD AND MANAGEMENT WISE

| Year/Management | Standard | | | | | | | | | | Total | |
|-----------------|------------|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| | i | ii | iii | iv | v | vi | vii | viii | ix | x | | |
| | 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 | 806470 | 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 | 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 |
| 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 | 280008 | 333882 | 217354 | 5125894 |
| 1975 | Government | 278206 | 290242 | 302238 | 359184 | 218442 | 171575 | 153144 | 137531 | 85238 | 107032 | 2094832 |
| | Aided | 357211 | 365395 | 376190 | 424529 | 369541 | 321921 | 299643 | 226480 | 150443 | 198858 | 3090211 |
| | Unaided | 5055 | 5187 | 4751 | 4163 | 4079 | 3855 | 3305 | 3394 | 2801 | 3472 | 40662 |
| | Total | 640472 | 660824 | 683179 | 779876 | 592062 | 497351 | 456092 | 368005 | 238482 | 309362 | 5225705 |

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------|------------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1976 | Government | 275456 | 268750 | 281166 | 294070 | 235596 | 199773 | 159447 | 146252 | 125600 | 81038 | 2067148 |
| | Aided | 353059 | 347892 | 339515 | 360324 | 405908 | 346722 | 305536 | 361541 | 201312 | 125796 | 3047405 |
| | Unaided | 5036 | 4704 | 4664 | 4310 | 3971 | 3708 | 3313 | 3626 | 3891 | 3264 | 40487 |
| | Total | 633551 | 621146 | 625345 | 658704 | 645475 | 550203 | 468296 | 411419 | 330803 | 210098 | 5155040 |
| 1977 | Government | 280102 | 271629 | 263655 | 282888 | 247596 | 215654 | 172418 | 140554 | 126222 | 90794 | 2091512 |
| | Aided | 370420 | 347366 | 3401551 | 326280 | 345689 | 362179 | 313829 | 274896 | 230301 | 149867 | 3060978 |
| | Unaided | 6981 | 4819 | 4543 | 4412 | 3764 | 3743 | 3661 | 3063 | 3316 | 2787 | 41089 |
| | Total | 657503 | 623814 | 608349 | 613580 | 597049 | 581576 | 489908 | 418513 | 359839 | 243448 | 5193579 |
| 1978 | Government | 280815 | 285219 | 270656 | 269266 | 213260 | 193372 | 97863 | 160224 | 132779 | 104898 | 2108352 |
| | Aided | 379204 | 383170 | 355284 | 346414 | 369955 | 365541 | 368223 | 270751 | 232256 | 170118 | 3240916 |
| | Unaided | | | | | | | | | | | |
| | Total | 660019 | 668389 | 625940 | 615680 | 583215 | 558913 | 566086 | 430975 | 365035 | 275016 | 5349268 |
| 1979 | Government | 267680 | 296339 | 284646 | 270918 | 207929 | 190471 | 182237 | 190009 | 149279 | 106443 | 2145951 |
| | Aided | 364847 | 379916 | 365316 | 346552 | 359091 | 393620 | 361684 | 299098 | 257047 | 183009 | 3220180 |
| | Unaided | | | | | | | | | | | |
| | Total | 632527 | 676255 | 649962 | 617470 | 567020 | 494091 | 543921 | 489107 | 406326 | 289452 | 5366131 |
| 1980 | Government | 268363 | 287362 | 290362 | 276219 | 207490 | 188314 | 182062 | 191932 | 170554 | 113153 | 2175811 |
| | Aided | 367314 | 373726 | 369644 | 357809 | 370342 | 350932 | 352128 | 308561 | 280053 | 191022 | 3321531 |
| | Unaided | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | Total | 635677 | 661088 | 660006 | 634028 | 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 | 468461 | 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 | 224660 | 3349470 |
| | Unaided | 7624 | 7727 | 7319 | 6828 | 6638 | 6217 | 5560 | 6343 | 5560 | 4278 | 6494 |
| | Total | 645879 | 652556 | 644470 | 643183 | 620825 | 574708 | 551681 | 492817 | 458145 | 366534 | 5650798 |

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Contd....

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1983 | Government | 264896 | 282509 | 269704 | 271893 | 227894 | 216240 | 198260 | 202333 | 181661 | 138477 | 2253867 |
| | Aided | 354307 | 366733 | 353149 | 356352 | 378351 | 372875 | 367907 | 290503 | 268241 | 216786 | 3325204 |
| | Unaided | 7093 | 7505 | 7477 | 7122 | 7345 | 7064 | 6261 | 6646 | 6008 | 4681 | 67202 |
| | 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 | 685631 | 622428 | 613588 | 595863 | 595921 | 523135 | 461165 | 357711 |
| 1985 | Government | 255053 | 267837 | 267568 | 270398 | 224721 | 213938 | 204772 | 214294 | 184478 | 130659 | 2233718 |
| | Aided | 351110 | 368858 | 355844 | 352108 | 380198 | 371933 | 366477 | 824198 | 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 |
| 1986 | Government | 260874 | 277696 | 267529 | 268638 | 227210 | 211684 | 201889 | 210541 | 190390 | 127223 | 2243674 |
| | Aided | 355364 | 390806 | 367503 | 358385 | 582874 | 368146 | 355034 | 313502 | 289219 | 198636 | 5371469 |
| | Unaided | 14401 | 13188 | 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 | 117885 |
| | Total | 614636 | 685531 | 658459 | 628305 | 623926 | 599092 | 566681 | 530900 | 488836 | 321091 | 5717457 |
| 1988 | Government | 266257 | 281147 | 276461 | 269535 | 232015 | 220328 | 202742 | 209844 | 192088 | 126073 | 2276479 |
| | Aided | 345994 | 389748 | 378230 | 364997 | 383771 | 375136 | 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 | 367186 | 379599 | 308417 | 290105 | 226524 | 3427521 |
| | Unaided | 17776 | 16920 | 15986 | 15624 | 12847 | 12083 | 11708 | 10955 | 10660 | 8894 | 133453 |
| | Total | 608642 | 655416 | 671373 | 660587 | 632190 | 607547 | 607106 | 531397 | 491918 | 384775 | 5851951 |

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Contd....

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------|------------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|---------|
| 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 | 345681 |
| | Unaided | 20061 | 18493 | 17770 | 16018 | 14967 | 14941 | 13311 | 11670 | 10957 | 9527 | 147715 |
| | Total | 601030 | 615381 | 619302 | 636690 | 660062 | 640029 | 6291715 | 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 | 343222 | 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 | 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 |

Source: Directorate of Public Instructions, Thiruvananthapuram.

APPENDIX - 9.9

ENROLMENT OF STUDENTS IN SCHOOLS IN KERALA - STAGE WISE

| Year | L.P.S | | | | Enrolment of students in Kerala U.P.S | | | | H.S | | | | Total |
|------|-----------|------------|---------|-----------|--|------------|---------|-----------|----------|-----------|---------|-----------|-----------|
| | Govt. | Aided | Unaided | Total | Govt. | Aided | Unaided | Total | Govt. | Aided | Unaided | Total | |
| 1973 | 12,78,782 | 16,11,763 | 18,088 | 29,08,583 | 4,68,371 | 8,74,428 | 10,540 | 13,53,339 | 2,62,585 | 4,85,555 | 9,882 | 7,58,022 | 50,19,944 |
| 1974 | 12,67,230 | 15,59,317 | 19,158 | 28,45,705 | 5,00,696 | 9,36,668 | 11,581 | 14,48,945 | 2,88,462 | 5,32,502 | 10,280 | 8,31,244 | 51,25,894 |
| 1975 | 12,21,870 | 15,23,325 | 19,156 | 27,64,351 | 5,43,161 | 9,91,105 | 11,239 | 15,45,505 | 3,29,801 | 5,75,781 | 10,267 | 9,15,849 | 52,25,705 |
| 1976 | 11,19,442 | 14,00,590 | 18,714 | 25,38,746 | 5,94,816 | 10,58,166 | 10,992 | 16,63,974 | 3,52,890 | 5,88,649 | 10,781 | 9,52,320 | 51,55,040 |
| 1977 | 10,98,274 | 13,84,217 | 20,755 | 25,03,246 | 6,35,668 | 10,21,697 | 11,168 | 16,68,533 | 3,57,570 | 6,55,064 | 9,166 | 10,21,800 | 51,93,579 |
| 1978 | 11,05,956 | 14,64,072* | -- | 25,70,028 | 6,04,495 | 11,03,719* | -- | 17,08,214 | 3,97,901 | 6,73,125* | -- | 10,71,026 | 53,49,268 |
| 1979 | 11,19,583 | 14,56,631 | -- | 25,76,214 | 5,80,637 | 10,24,395 | -- | 16,05,032 | 4,45,731 | 7,39,154 | -- | 11,84,885 | 53,66,131 |
| 1980 | 11,22,306 | 14,68,493 | -- | 25,90,799 | 5,77,866 | 10,73,402 | -- | 16,51,268 | 4,75,639 | 7,79,636 | -- | 12,55,275 | 54,97,342 |
| 1981 | 11,16,589 | 14,50,838 | 27,376 | 25,94,803 | 5,88,972 | 10,88,526 | 16,888 | 16,94,386 | 4,97,865 | 7,99,734 | 16,165 | 13,13,764 | 56,02,953 |
| 1982 | 11,07,416 | 14,46,174 | 29,498 | 25,86,088 | 6,16,894 | 11,11,905 | 18,415 | 17,47,214 | 5,12,924 | 7,88,391 | 16,181 | 13,71,496 | 56,50,798 |
| 1983 | 10,89,002 | 14,30,541 | 29,197 | 25,48,740 | 6,42,394 | 11,19,133 | 20,670 | 17,82,197 | 5,22,471 | 7,75,530 | 17,335 | 13,15,336 | 56,46,273 |
| 1984 | 10,61,506 | 14,09,425 | 30,141 | 25,01,072 | 6,54,650 | 11,26,999 | 23,723 | 18,05,372 | 5,32,915 | 7,88,295 | 20,601 | 13,42,011 | 56,48,455 |
| 1985 | 10,60,856 | 14,27,920 | 39,533 | 25,28,309 | 6,34,431 | 11,18,608 | 25,954 | 17,87,993 | 5,29,431 | 8,16,065 | 19,278 | 13,64,774 | 56,81,076 |
| 1986 | 10,74,737 | 14,72,058 | 48,601 | 25,95,396 | 6,40,783 | 11,06,054 | 30,239 | 17,77,076 | 5,28,154 | 7,93,357 | 22,168 | 13,43,679 | 57,16,151 |
| 1987 | 10,63,301 | 14,65,689 | 57,941 | 25,86,931 | 6,48,055 | 11,08,776 | 32,868 | 17,89,699 | 5,25,336 | 7,89,215 | 26,276 | 13,40,827 | 57,17,457 |
| 1988 | 10,93,400 | 14,78,969 | 64,725 | 26,37,094 | 6,55,085 | 11,15,001 | 35,509 | 18,05,595 | 5,27,994 | 7,89,389 | 28,584 | 13,45,967 | 57,88,656 |
| 1989 | 10,71,651 | 14,58,061 | 66,306 | 25,96,018 | 6,66,791 | 11,44,414 | 36,638 | 18,47,843 | 5,52,535 | 8,25,046 | 30,509 | 14,08,090 | 58,51,951 |
| 1990 | 10,35,321 | 14,20,532 | 70,215 | 25,27,068 | 6,85,509 | 11,73,993 | 40,696 | 18,99,598 | 5,73,236 | 8,50,835 | 31,979 | 14,56,050 | 58,82,716 |
| 1991 | 10,09,287 | 13,90,774 | 72,342 | 24,72,403 | 6,88,508 | 11,98,079 | 43,219 | 19,29,806 | 5,98,777 | 8,67,961 | 32,154 | 14,98,892 | 59,01,101 |
| 1992 | 9,75,321 | 13,69,673 | 76,404 | 24,21,398 | 6,87,019 | 12,00,994 | 45,067 | 19,33,080 | 6,20,879 | 8,97,727 | 33,921 | 15,52,527 | 59,07,005 |
| 1993 | 9,46,495 | 13,46,165 | 79,425 | 23,72,085 | 6,74,867 | 11,86,376 | 46,281 | 19,07,524 | 6,39,532 | 9,13,580 | 36,015 | 15,89,127 | 58,68,736 |
| 1994 | 9,16,482 | 13,22,880 | 85,692 | 23,25,054 | 6,51,773 | 11,64,926 | 50,138 | 18,66,837 | 6,43,749 | 9,33,364 | 39,103 | 16,16,216 | 58,08,107 |

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APPENDIX - 9.10

ENROLMENT OF SC/ST STUDENTS AT SCHOOL LEVEL AS ON 1-7-1994 - STUDENTS STRENGTH

| Section | General | Sch. Caste | Percentage to total | Sch. Tribe | Percentage to total |
|--------------|----------------|---------------|---------------------|--------------|---------------------|
| L.P. Section | 2325052 | 259461 | 11.15 | 32119 | 1.38 |
| U.P. Section | 1866837 | 215530 | 11.54 | 19827 | 1.06 |
| H.S. Section | 1616216 | 172534 | 10.67 | 12688 | 0.79 |
| Total | 5808105 | 647525 | 11.14 | 64634 | 1.11 |

Source: Directorate of Public Instruction, Thiruvananthapuram.

APPENDIX - 9.11

NUMBER OF TEACHERS IN KERALA

| Year | L.P.Schools | | | U.P. Schools | | | High Schools | | |
|------|-------------|---------------|-----------------|--------------|---------------|-----------------|--------------|---------------|-----------------|
| | 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 | 24016 | 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 | 288571 | 1005 | 15822 | 34074 | 805 | 37104 | 51224 | 3771 |

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APPENDIX - 9.12

PUPIL - TEACHER RATIO 1970-71 TO 1993 - 94

| Year | No. of Students in Schools (lakhs) | No. of Teachers (lakhs) | Pupil-Teacher ratio (No. of pupils per teacher) |
|-----------|---------------------------------------|----------------------------|--|
| 1 | 2 | 3 | 4 |
| 1970 - 71 | 48.0 | 1.42 | 33.8 |
| 1971 - 72 | 49.36 | 1.46 | 33.8 |
| 1972 - 73 | 51.56 | 1.51 | 34.1 |
| 1973 - 74 | 52.71 | 1.54 | 34.2 |
| 1974 - 75 | 53.59 | 1.59 | 33.7 |
| 1975 - 76 | 52.85 | 1.62 | 32.6 |
| 1976 - 77 | 53.54 | 1.64 | 32.6 |
| 1977 - 78 | 54.94 | 1.67 | 32.9 |
| 1978 - 79 | 53.38 | 1.74 | 30.6 |
| 1979 - 80 | 55.81 | 1.75 | 31.9 |
| 1980 - 81 | 56.02 | 1.75 | 32.1 |
| 1981 - 82 | 56.50 | 1.78 | 31.7 |
| 1982 - 83 | 56.45 | 1.81 | 31.2 |
| 1983 - 84 | 56.48 | 1.84 | 30.7 |
| 1984 - 85 | 56.81 | 1.85 | 30.7 |
| 1985 - 86 | 57.16 | 1.88 | 30.4 |
| 1986 - 87 | 57.17 | 1.91 | 29.9 |
| 1987 - 88 | 57.88 | 1.93 | 30.1 |
| 1988 - 89 | 58.52 | 1.90 | 30.8 |
| 1989 - 90 | 58.83 | -- | -- |
| 1990 - 91 | 59.01 | 1.91 | 30.9 |
| 1991 - 92 | 59.07 | 1.91 | 30.9 |
| 1992 - 93 | 58.68 | 1.90 | 30.9 |
| 1993 - 94 | 58.08 | 1.90 | 30.6 |

APPENDIX - 9.13

NUMBER OF ARTS AND SCIENCE COLLEGES IN KERALA 1994

| Sl.No. | District | Government | Private | Total |
|--------|--------------------|------------|---------|-------|
| 1. | Thiruvananthapuram | 9 | 11 | 20 |
| 2. | Kollam | 1 | 12 | 13 |
| 3. | Pathanamthitta | -- | 8 | 8 |
| 4. | Alappuzha | -- | 11 | 11 |
| 5. | Emakulam | 5 | 19 | 24 |
| 6. | Kottayam | 1 | 20 | 21 |
| 7. | Idukki | 1 | 4 | 5 |
| 8. | Thrissur | 4 | 16 | 20 |
| 9. | Malappuram | 3 | 8 | 11 |
| 10. | Palakkad | 3 | 7 | 10 |
| 11. | Kozhikode | 7 | 7 | 14 |
| 12. | Wayanad | 2 | 2 | 4 |
| 13. | Kannur | 2 | 7 | 9 |
| 14. | Kasaragod | 3 | 1 | 4 |
| Total | | 41 | 133 | 174 |

Source: Directorate of Collegiate Education, Thiruvananthapuram.

APPENDIX - 9.14

NUMBER OF ARTS AND SCIENCE COLLEGES IN KERALA
(University-wise)

| Sl. No. | Name of University | 1992 | 1993 | 1994 |
|---------|--------------------|------|------|------|
| 1. | Kerala | 44 | 45 | 45 |
| 2. | Calicut | 72 | 72 | 72 |
| 3. | Gandhiji | 57 | 57 | 57 |
| Total | | 173 | 174 | 174 |

Source: Directorate of Collegiate Education, Thiruvananthapuram

APPENDIX - 9.15

ENROLMENT BY STAGES IN ARTS AND SCIENCE COLLEGES IN KERALA - UNIVERSITY-WISE ENROLMENT 1994

| Name of University | Pre-Degree | | | | Degree | | | | Post Graduate | | | | Total | | | |
|--------------------|------------|-------|-------|-----|--------|-------|------|-----|---------------|-------|-----|----|-------|-------|-------|------|
| | Boys | Girls | SC | ST | Boys | Girls | SC | ST | Boys | Girls | SC | ST | Boys | Girls | SC | ST |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 1. Kerala | 14767 | 18041 | 6003 | 98 | 5112 | 9299 | 1323 | 29 | 489 | 1013 | 208 | 2 | 20368 | 28353 | 7534 | 129 |
| 2. Calicut | 17969 | 18122 | 6247 | 386 | 6699 | 8387 | 1003 | 56 | 710 | 894 | 180 | 9 | 25378 | 27403 | 7430 | 451 |
| 3. Gandhiji | 15917 | 19947 | 4761 | 343 | 6731 | 9660 | 1153 | 113 | 708 | 1523 | 202 | 29 | 23356 | 31130 | 6116 | 485 |
| Total | 48653 | 56110 | 17011 | 827 | 18542 | 27346 | 3479 | 198 | 1907 | 3430 | 590 | 40 | 69102 | 86886 | 21080 | 1065 |

Source: Directorate of Collegiate Education, Thiruvananthapuram

APPENDIX - 9.16

YEAR-WISE BREAK UP OF PRIVATE REGISTRATION

| Year | Kerala University | | | | | | | Calicut University | | | | | | | Mahatma Gandhi University | | | | | | |
|------|-------------------|------|------|-------|-------|------|-------|--------------------|-------|------|-------|------|-------|-------|---------------------------|------------|------|------|-------|-------|-------|
| | Pre-Degree | B.A. | M.A. | B.Com | M.Com | M.Sc | Total | Pre-Degree | B.A. | B.Sc | B.Com | M.A | M.Sc. | M.Com | Total | Pre-Degree | B.A. | M.A. | B.Com | M.Com | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 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 | 616 | 670 | 53885 | -- | -- | -- | -- | -- | -- |
| 1989 | 26440 | 3250 | 5325 | 6170 | 2000 | -- | 43185 | 39771 | 11700 | 1173 | 8086 | 2021 | 738 | 665 | 64134 | -- | -- | -- | -- | -- | -- |
| 1990 | 26329 | 4200 | 5636 | 6320 | 2500 | -- | 44985 | 44762 | 13217 | 1647 | 9875 | 2338 | 809 | 716 | 73364 | -- | -- | -- | -- | -- | -- |
| 1991 | 28000 | 4283 | 6580 | 5977 | 2324 | -- | 47164 | 60753 | 14836 | 1800 | 10400 | 2658 | 1170 | 864 | 92490 | 32452 | 2431 | -- | 6310 | -- | 44193 |
| 1992 | 27000 | 6000 | 7000 | 6250 | 2200 | -- | 48450 | 55347 | 11714 | -- | 8265 | 2846 | -- | 763 | 78935 | 26528 | 3138 | -- | 7282 | -- | 36948 |
| 1993 | 27600 | 5600 | 9500 | 7000 | 1900 | 590 | 52190 | 58800 | 13747 | -- | 10217 | 3992 | -- | 929 | 87085 | 30777 | 3582 | -- | 8310 | -- | 42669 |
| 1994 | 31600 | 5500 | 7300 | 7000 | 2169 | 650 | 53619 | 54662 | 7790 | -- | 6419 | 3000 | -- | 875 | 72746 | 29135 | 4001 | -- | 8345 | -- | 41481 |

Source: University of Kerala, Calicut and Mahatma Gandhi University.

APPENDIX - 9.17

ANNUAL INTAKE AND OUT-TURN IN ENGINEERING COLLEGES IN KERALA

| Year | <u>Intake</u> | | Out turn |
|------|---------------|--------|--------------------|
| | Sanctioned | Actual | |
| 1990 | 2656 | 2656 | 2117 |
| 1991 | 2781 | 2624 | 1789 |
| 1992 | 2847 | 2781 | 1553 |
| 1993 | 2879 | 2879 | 1450 (B.Tech only) |
| 1994 | 2741 | 2718 | -- |

Source: Directorate of Technical Education

APENDIX - 9.18

NUMBER OF STUDENTS AND TEACHERS IN ENGINEERING COLLEGES, 1993 - 94

| 1 | 2 | Enrolment | | | | | | | | | Teachers | | | | | | | | |
|------------|--|-----------|-------|-------|------|-------|-------|------|-------|-------|----------|-------|-------|------|-------|-------|------|-------|-------|
| | | 1992 | | | 1993 | | | 1994 | | | 1992 | | | 1993 | | | 1994 | | |
| | | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total | Men | Women | Total | Men | Women | Total | Men | Women | Total |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | |
| GOVERNMENT | | | | | | | | | | | | | | | | | | | |
| 1. | College of Engineering Thiruvananthapuram | 1946 | 470 | 2416 | 1578 | 377 | 1955 | 1654 | 553 | 2207 | 320 | 79 | 399 | 222 | 50 | 272 | 216 | 64 | 280 |
| 2. | Engineering College, Thrissur | 948 | 760 | 1708 | 1343 | 404 | 1747 | 1352 | 238 | 1590 | 251 | 54 | 305 | 112 | 97 | 209 | 114 | 65 | 179 |
| 3. | College of Engineering, Kannur | 508 | 129 | 637 | 520 | 128 | 648 | 520 | 117 | 637 | 135 | 16 | 151 | 91 | 15 | 106 | 45 | 9 | 54 |
| 4. | College of Engineering, Kottayam | 113 | 46 | 159 | 159 | 60 | 219 | 294 | 84 | 378 | 6 | 3 | 9 | 20 | 5 | 25 | 27 | 11 | 38 |
| 5. | Regional Engineering College, Kozhikode | 1363 | 266 | 1629 | 1156 | 212 | 1368 | 1153 | 223 | 1376 | 142 | 27 | 169 | 140 | 26 | 166 | 138 | 24 | 162 |
| PRIVATE | | | | | | | | | | | | | | | | | | | |
| 1. | T.K.M. Engineering College, Kollam | 1264 | 477 | 1741 | 1270 | 494 | 1764 | 1577 | 551 | 2128 | 239 | 53 | 292 | 130 | 60 | 190 | 137 | 65 | 212 |
| 2. | Mar Athanasius College of Engineering, Kothamangalam | 1048 | 425 | 1473 | 890 | 323 | 1213 | 643 | 247 | 890 | 82 | 29 | 111 | 99 | 39 | 138 | 88 | 36 | 124 |
| 43. | N.S.S. College of Engineering, Palakkad | 1038 | 198 | 1236 | 1068 | 163 | 1231 | 1017 | 298 | 1215 | 147 | 26 | 173 | 104 | 43 | 147 | 98 | 34 | 132 |
| Total | | 8228 | 2771 | 10999 | 7984 | 2161 | 10145 | 8210 | 2310 | 10421 | 1322 | 287 | 1609 | 918 | 335 | 1253 | 863 | 308 | 1181 |

Source: Directorate of Technical Education, Thiruvananthapuram.

APPENDIX - 9.19

ANNUAL INTAKE AND OUT-TURN IN POLYTECHNICS IN KERALA

| Year | No. of Polytechnics | Intake | | Out turn |
|------|---------------------|------------|--------|----------|
| | | Sanctioned | Actual | |
| 1990 | 29 | 4231 | 4231 | 2472 |
| 1991 | 29 | 4389 | 4434 | 2974 |
| 1992 | 30 | 4508 | 4166 | 2791 |
| 1993 | 31 | 4508 | 4816 | 3147 |
| 1994 | 39 | 6054 | 5671 | -- |

Source: Directorate of Technical Education

APPENDIX - 9.20

TOTAL STUDENTS AND STAFF STRENGTH IN POLYTECHNICS

| | Students | | | | | | Teachers | | | | | |
|------------|----------|-------|-------|------|-------|-------|----------|-------|-------|------|-------|-------|
| | 1993 | | | 1994 | | | 1993 | | | 1994 | | |
| | Boys | Girls | Total | Boys | Girls | Total | Men | Women | Total | Men | Women | Total |
| Government | 6693 | 2722 | 9415 | 6876 | 3684 | 10560 | 700 | 242 | 942 | 785 | 268 | 1053 |
| Private | 3174 | 500 | 3674 | 2460 | 451 | 2911 | 313 | 41 | 354 | 324 | 48 | 372 |
| Total | 9867 | 3222 | 13089 | 9336 | 4135 | 13471 | 1013 | 283 | 1296 | 1109 | 316 | 1425 |

Source: Directorate of Technical Education

PER CAPITA EXPENDITURE ON EDUCATION, MEDICAL AND PUBLIC HEALTH - STATEWISE

(Rupees)

| State | Revenue and Capital Account combined | | | | | | | | | | | |
|-----------------------|--------------------------------------|--------|-----------|--------|-----------|--------|-----------|--------|------------|--------|------------|--------|
| | 1980 - 81 | | 1987 - 88 | | 1988 - 89 | | 1989 - 90 | | 1990 - 91* | | 1991 - 92* | |
| | Education | Health | Education | Health | Education | Health | Education | Health | Education | Health | Education | Health |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1. Andhra Pradesh | 43 | 23 | 114 | 60 | 127 | 63 | 168 | 65 | 171 | 52 | 179 | 54 |
| 2. Assam | 54 | 22 | 130 | 71 | 142 | 75 | 165 | 70 | 221 | 51 | 250 | 48 |
| 3. Bihar | 34 | 14 | 65 | 32 | 104 | 35 | 135 | 36 | 142 | 39 | 150 | 47 |
| 4. Gujarat | 53 | 26 | 148 | 79 | 175 | 72 | 201 | 84 | 226 | 61 | 256 | 65 |
| 5. Haryana | 57 | 31 | 150 | 72 | 173 | 73 | 198 | 79 | 202 | 60 | 237 | 60 |
| 6. Himachal Pradesh | 105 | 34 | 265 | 202 | 331 | 227 | 356 | 212 | 385 | 145 | 459 | 145 |
| 7. Jammu & Kashmir | 73 | 84 | 175 | 194 | 223 | 216 | 278 | 238 | 293 | 137 | 315 | 123 |
| 8. Karnataka | 47 | 19 | 134 | 61 | 146 | 61 | 167 | 88 | 187 | 62 | 219 | 69 |
| 9. Kerala | 85 | 32 | 180 | 70 | 199 | 77 | 240 | 98 | 269 | 90 | 282 | 80 |
| 10. Madhya Pradesh | 33 | 23 | 89 | 63 | 105 | 74 | 123 | 63 | 141 | 49 | 161 | 49 |
| 11. Maharashtra | 61 | 27 | 151 | 75 | 176 | 80 | 219 | 83 | 222 | 68 | 271 | 66 |
| 12. Manipur | 143 | 98 | 318 | 176 | 467 | 205 | 475 | 219 | 438 | 111 | 482 | 96 |
| 13. Meghalaya | 77 | 120 | 200 | 200 | 242 | 236 | 372 | 277 | 379 | 165 | 437 | 143 |
| 14. Nagaland | 163 | 197 | 410 | 490 | 441 | 447 | 474 | 574 | 461 | 255 | 462 | 160 |
| 15. Orissa | 41 | 22 | 99 | 52 | 116 | 56 | 165 | 65 | 171 | 59 | 184 | 55 |
| 16. Punjab | 83 | 32 | 176 | 77 | 203 | 85 | 291 | 114 | 281 | 91 | 329 | 98 |
| 17. Rajasthan | 43 | 33 | 115 | 95 | 129 | 101 | 163 | 104 | 196 | 62 | 214 | 63 |
| 18. Tamil Nadu | 50 | 23 | 129 | 65 | 146 | 67 | 171 | 82 | 201 | 66 | 242 | 75 |
| 19. Tripura | 81 | 31 | 275 | 121 | 381 | 140 | 396 | 161 | 418 | 108 | 439 | 103 |
| 20. Uttar Pradesh | 32 | 14 | 76 | 41 | 99 | 49 | 150 | 53 | 154 | 40 | 149 | 40 |
| 21. West Bengal | 45 | 26 | 115 | 51 | 134 | 58 | 155 | 69 | 218 | 73 | 203 | 62 |
| 22. Sikkim | 133 | 81 | 450 | 375 | 568 | 438 | 653 | 466 | 717 | 250 | 798 | 239 |
| 23. Mizoram | -- | -- | 583 | 483 | 504 | 416 | 566 | 436 | 704 | 171 | 778 | 238 |
| 24. Arunachal Pradesh | -- | -- | 571 | 357 | 667 | 325 | 570 | 327 | 592 | 225 | 693 | 181 |
| 25. Goa | -- | -- | 331 | 238 | 466 | 324 | 482 | 362 | 653 | 254 | 707 | 235 |
| All State | 47 | 24 | 117 | 64 | 140 | 69 | 175 | 74 | 190 | 59 | 208 | 59 |

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Source: Basic Statistics Relating to Indian Economy Vol.2 of 1993 CMIE (Revised Figures)

* Public Health only.

APPENDIX - 9.22

MEDICAL INSTITUTIONS AND BEDS IN KERALA - CATEGORY-WISE 1994

| Districts | Hospitals | | P.H.Centres including MCH Units | | Community Health Centres | | Dispensaries | | T.B. Centres/ Clinics | | Leprosy Control unit/Leprosy Sanitorium | |
|-----------------------|------------|--------------|---------------------------------------|-------------|-----------------------------|-------------|--------------|------------|--------------------------|------------|---|------------|
| | 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 |
| 1. Thiruvananthapuram | 19 | 5833 | 78 | 300 | 6 | 251 | 6 | 34 | 1 | 28 | 1 | - |
| 2. Kollam | 11 | 1624 | 61 | 285 | 4 | 70 | - | - | 3 | 74 | 3 | - |
| 3. Alappuzha | 12 | 2404 | 67 | 329 | 3 | 178 | 1 | - | 2 | 76 | 1 | 993 |
| 4. Pathanamthitta | 7 | 513 | 50 | 281 | 1 | 141 | 1 | - | 1 | 12 | - | - |
| 5. Kottayam | 13 | 2295 | 58 | 419 | 3 | 284 | - | - | 2 | 60 | - | - |
| 6. Idukki | 3 | 328 | 57 | 395 | 2 | 140 | 1 | - | 1 | - | - | - |
| 7. Ernakulam | 21 | 2715 | 79 | 616 | 6 | 280 | 3 | 68 | 4 | 64 | - | - |
| 8. Thrissur | 19 | 3399 | 81 | 513 | 3 | 149 | 6 | 6 | 1 | - | - | - |
| 9. Palakkad | 8 | 1066 | 82 | 767 | 3 | 241 | 8 | - | 1 | 54 | 2 | - |
| 10. Malappuram | 7 | 1151 | 91 | 586 | 5 | 360 | 5 | - | 2 | 52 | 1 | - |
| 11. Kozhikode | 11 | 3972 | 67 | 184 | 6 | 152 | 3 | - | 1 | - | 3 | - |
| 12. Wayanad | 3 | 390 | 30 | 196 | 3 | 191 | 6 | - | 1 | - | 2 | - |
| 13. Kannur | 11 | 1925 | 74 | 246 | 3 | 90 | 10 | 46 | 1 | 28 | - | - |
| 14. Kasaragod | 3 | 257 | 49 | 111 | 3 | 289 | 3 | - | 1 | - | 2 | - |
| Total | 148 | 27872 | 924 | 5228 | 51 | 2816 | 53 | 154 | 22 | 448 | 15 | 993 |

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APPENDIX - 9.23

DISTRICT-WISE AVAILABILITY OF VEHICLES UNDER DIRECTORATE OF HEALTH SERVICES 1994

| District | Vehicles in running condition | Vehicles in Workshop | Others | Total |
|-----------------------|-------------------------------------|-------------------------|------------|------------|
| 1 | 2 | 3 | 4 | 5 |
| 1. Thiruvananthapuram | 67 | 43 | | 110 |
| 2. Kollam | 38 | 6 | | 44 |
| 3. Pathanamthitta | 24 | 4 | | 28 |
| 4. Kottayam | 47 | 7 | | 54 |
| 5. Idiukki | 26 | 10 | | 36 |
| 6. Alappuzha | 57 | 13 | | 70 |
| 7. Eranakulam | 42 | 5 | | 47 |
| 8. Thrissur | 41 | 5 | | 46 |
| 9. Palakkad | 65 | 9 | | 74 |
| 10. Malappuram | 56 | 14 | | 70 |
| 11. Kozhikode | 50 | 4 | | 54 |
| 12. Wayanad | 26 | 12 | | 38 |
| 13. Kannur | 51 | 7 | | 58 |
| 14. Kasargod | 20 | 4 | | 24 |
| Total | 610 | 143 | 211 | 964 |

APPENDIX - 9.24

STATEMENT SHOWING NO.OF ATTACKS AND DEATHS DUE TO PRINCIPAL DISEASES
DURING 1993 & 94

| Sl. No. | Name of Diseases | 1993 | | 1994 | |
|------------|-----------------------------|----------|-------|----------|-------|
| | | Attack | Death | Attack | Death |
| 1. | Diphtheria | 52 | 7 | 35 | 2 |
| 2. | Dysentery | 744794 | 51 | 801646 | 58 |
| 3. | Whooping cough | 2930 | 4 | 1660 | 1 |
| 4. | Poliomyelitis | 91 | 2 | 48 | 1 |
| 5. | Titanus | 67 | 10 | 74 | 9 |
| 6. | Meningococcal Infection | 102 | 9 | 68 | 9 |
| 7. | Measles | 10035 | 6 | 11357 | 1 |
| 8. | Syphillis | 807 | - | 481 | - |
| 9. | Gonoceocal Infection | 1441 | - | * 771 | - |
| 10. | Tuberculosis | 43933 | 258 | 40227 | 210 |
| 11. | Rabies | 79 | 28 | 89 | 18 |
| 12. | Enteric fever | 11224 | 3 | 10285 | 5 |
| 13. | Pneumonia | 12904 | 30 | - | - |
| 14. | Infective Hepatitis | 9099 | 10 | 9979 | 9 |
| 15. | Acute Respiratory infection | 2647301 | 134 | 2447666 | 80 |
| 16. | Small pox | | | 6684 | 7 |
| 17. | All other diseases | 11019553 | 4363 | 10945410 | 4096 |

APPENDIX - 9.25

COMMUNICABLE DISEASES - STATUS

| Sl. No. | Name of Diseases | Population exposed to risk (in Nos.) | Prevalance rate (estimated) |
|------------|--|---|--------------------------------|
| 1. | Leprosy | 30000000 | 0.20 |
| 2. | Tuberculosis | 30000000 | 0.83 |
| 3. | Filaria | 66.3 lakh | NA |
| 4. | Acute Diarrhoeal diseases | 3900000 | 205.85 |
| 5. | Diphtheria | 6000000 | 0.006 |
| 6. | Poliomyelitis | 3900000 | 0.012 |
| 7. | Tetanus | 600000 | 0.012 |
| 8. | Whooping cough | 3900000 | 0.426 |
| 9. | Measles | 3900000 | 2.91 |
| 10. | Acute respiratory infection ncluding pneumonia | 3900000 | 627.61 |
| 11. | Malaria | 30000000 | NA |

Note : Prevalance rate is calculated per 1000 population exposed to risk.

APPENDIX - 9.26

DISTRICT-WISE DISTRIBUTION OF INSTITUTIONS, BEDS AND PATIENTS TREATED UNDER AYURVEDIC SYSTEMS OF MEDICINE IN KERALA 1993 AND 1994

| District | No. of hospitals | | No. of beds | | No. of Dispensaries | | Total No. of Institutions | | No. of Patients treated 1994 | |
|-----------------------|------------------|------------|-------------|-------------|---------------------|------------|---------------------------|------------|------------------------------|--------------------|
| | 1993 | 1994 | 1993 | 1994 | 1993 | 1994 | 1993 | 1994 | Inpatients | outpatients |
| 1. Thiruvananthapuram | 12 | 12 | 235 | 235 | 51 | 52 | 63 | 64 | 3504 | 11,11,207 |
| 2. Kollam | 9 | 9 | 190 | 190 | 39 | 39 | 48 | 48 | 2015 | 12,74,604 |
| 3. Pathanamthitta | 4 | 4 | 80 | 80 | 31 | 32 | 35 | 36 | 862 | 7,91,356 |
| 4. Alappuzha | 10 | 10 | 180 | 180 | 39 | 40 | 49 | 50 | 2508 | 15,22,526 |
| 5. Kottayam | 8 | 8 | 150 | 150 | 32 | 33 | 39 | 41 | 1315 | 5,63,920 |
| 6. Idukki | 3 | 3 | 110 | 110 | 26 | 26 | 29 | 29 | 1999 | 7,04,821 |
| 7. Ernakulam | 13 | 13 | 230 | 230 | 46 | 48 | 60 | 61 | 3180 | 16,03,338 |
| 8. Thrissur | 14 | 14 | 223 | 223 | 67 | 67 | 81 | 81 | 1861 | 15,19,259 |
| 9. Palakkad | 5 | 5 | 130 | 130 | 52 | 54 | 57 | 59 | 1384 | 10,81,128 |
| 10. Malappuram | 10 | 10 | 200 | 200 | 54 | 55 | 64 | 65 | 1341 | 4,46,833 |
| 11. Kozhikode | 6 | 6 | 120 | 170 | 38 | 39 | 44 | 45 | 1065 | 10,16,180 |
| 12. Wayanad | 2 | 2 | 100 | 100 | 18 | 19 | 20 | 21 | 3144 | 4,96,293 |
| 13. Kannur | 6 | 6 | 211 | 211 | 43 | 45 | 49 | 51 | 2977 | 9,89,905 |
| 14. Kasaragode | 5 | 5 | 100 | 100 | 30 | 30 | 35 | 35 | 778 | 5,89,381 |
| Total | 107 | 107 | 2259 | 2309 | 566 | 579 | 673 | 686 | 27933 | 1,37,10,751 |

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APPENDIX - 9.27

**DISTRICT-WISE DISTRIBUTION OF INSTITUTIONS, BEDS AND PATIENTS TREATED UNDER HOMOEOPATHY
DURING 1993 AND 1994**

| District | No. of hospitals | | No. of beds | | No. of dispensaries | | Total no. of Institutions | | No. of patients treated 1994 | |
|-----------------------|------------------|-----------|-------------|------------|---------------------|------------|---------------------------|------------|------------------------------|----------------|
| | 1993 | 1994 | 1993 | 1994 | 1993 | 1994 | 1993 | 1994 | Inpatients | outpatients |
| 1. Thiruvananthapuram | 4 | 4 | 175 | 175 | 35 | 36 | 39 | 40 | 2699 | 679228 |
| 2. Kollam | 3 | 3 | 75 | 75 | 25 | 27 | 28 | 30 | 989 | 465487 |
| 3. Pathanamthitta | 1 | 1 | 25 | 25 | 18 | 18 | 19 | 19 | - | 186670 |
| 4. Alappuzha | 3 | 3 | 75 | 75 | 28 | 29 | 31 | 32 | 292 | 572028 |
| 5. Kottayam | 3 | 3 | 175 | 175 | 30 | 31 | 33 | 34 | 11376 | 570479 |
| 6. Idukki | 2 | 2 | 50 | 50 | 25 | 26 | 27 | 28 | 4291 | 290817 |
| 7. Ernakulam | 3 | 3 | 75 | 75 | 39 | 40 | 42 | 43 | 1053 | 754272 |
| 8. Thrissur | 1 | 1 | 25 | 25 | 25 | 27 | 26 | 28 | 286 | 274298 |
| 9. Palakkad | 1 | 1 | 25 | 25 | 31 | 24 | 32 | 25 | 373 | 218285 |
| 10. Malappuram | 2 | 2 | 50 | 50 | 23 | 32 | 25 | 34 | 211 | 326738 |
| 11. Kozhikkode | 3 | 3 | 75 | 75 | 30 | 32 | 33 | 35 | 769 | 455609 |
| 12. Wayanad | 1 | 1 | 25 | 25 | 12 | 12 | 13 | 13 | 302 | 113863 |
| 13. Kannur | 1 | 1 | 25 | 25 | 23 | 24 | 24 | 25 | 174 | 259400 |
| 14. Kasaragode | 3 | 3 | 75 | 75 | 16 | 16 | 19 | 19 | 610 | 171133 |
| Total | 31 | 31 | 950 | 950 | 360 | 374 | 391 | 405 | 23425 | 5338307 |

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FAMILY WELFARE PROGRAMME IN 1994 - DISTRICT-WISE

| Sl. District No, | Vasectomy | PPS | Minilap | Laprosopic | Total (Col.3 to 5) | I.U.D. | | | Nirodh supplied c.c. | Oral pills | Induced abortion |
|-----------------------|------------|--------------|--------------|--------------|--------------------|-----------|--------------|--------------------|----------------------|--------------|------------------|
| | | | | | | LL | Cut | Total (Col.7 to 8) | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
| 1. Thiruvananthapuram | 37 | 14089 | 2913 | 2211 | 19250 | -- | 9057 | 9057 | 46186 | 3554 | 5349 |
| 2. Kollam | 11 | 10434 | 1446 | 1201 | 13092 | -- | 7022 | 7022 | 25313 | 3842 | 2906 |
| 3. Pathanamthitta | 15 | 4702 | 634 | 1282 | 6633 | -- | 3514 | 3514 | 9962 | 1468 | 1423 |
| 4. Alappuzha | 212 | 4696 | 2295 | 65 | 7268 | -- | 5996 | 5996 | 15294 | 2124 | 1562 |
| 5. Kottayam | 32 | 5129 | 422 | 2590 | 8173 | -- | 7776 | 7776 | 21902 | 3320 | 4406 |
| 6. Idukki | 24 | 3109 | 1080 | 842 | 5055 | -- | 4117 | 4117 | 10738 | 1342 | 611 |
| 7. Ernakulam | 66 | 7559 | 536 | 2629 | 10790 | -- | 7153 | 7153 | 20403 | 2475 | 5139 |
| 8. Thrissur | 62 | 6734 | 1117 | 2333 | 10244 | -- | 8227 | 8227 | 17171 | 2635 | 2343 |
| 9. Palakkad | 4 | 4468 | 624 | 4129 | 9282 | -- | 7095 | 7095 | 18402 | 2264 | 4158 |
| 10. Malappuram | 12 | 5701 | 1688 | 2746 | 10174 | -- | 6505 | 6505 | 16143 | 1668 | 871 |
| 11. Kozhikkode | 169 | 11007 | 2400 | 2176 | 15756 | -- | 6214 | 6214 | 15632 | 2151 | 2401 |
| 12. Wayanad | 24 | 1832 | 258 | 364 | 2478 | -- | 2549 | 2549 | 7916 | 1054 | 672 |
| 13. Kannur | 53 | 8259 | 852 | 736 | 9900 | -- | 6064 | 6064 | 21209 | 3047 | 1837 |
| 14. Kasaragode | 14 | 2037 | 173 | 855 | 3079 | -- | 3565 | 3565 | 10898 | 1549 | 764 |
| Total | 735 | 89756 | 16438 | 24159 | 131173 | -- | 84854 | 84854 | 257169 | 32493 | 34442 |

APPENDIX - 9.29

DISTRICT-WISE POPULATION COVERED BY RURAL WATER SUPPLY SCHEMES

| Sl. No. | District | 1990-91 | 1991-92 | 1992-93 | 1993-94 |
|---------|--------------------|----------------|----------------|----------------|----------------|
| 1. | Thiruvananthapuram | 758000 | 879000 | 964000 | 964000 |
| 2. | Kollam | 807000 | 807000 | 843000 | 843000 |
| 3. | Pathanamthitta | 261000 | 295000 | 325000 | 325000 |
| 4. | Alappuzha | 753000 | 803000 | 853000 | 853000 |
| 5. | Kottayam | 667000 | 674000 | 705000 | 706000 |
| 6. | Idukki | 311000 | 321000 | 331000 | 331000 |
| 7. | Ernakulam | 675000 | 717000 | 747000 | 747000 |
| 8. | Thrissur | 855000 | 1109000 | 1147000 | 1147000 |
| 9. | Palakkad | 1066000 | 1098000 | 1151000 | 1151000 |
| 10. | Malappuram | 590000 | 591000 | 627000 | 627000 |
| 11. | Kozhikode | 374000 | 379000 | 228000 | 228000 |
| 12. | Wayanad | 150000 | 162000 | 188000 | 183000 |
| 13. | Kannur | 215000 | 220000 | 236000 | 235000 |
| 14. | Kasaragod | 256000 | 281000 | 290000 | 290000 |
| | Total | 7738000 | 8336000 | 8835000 | 8835000 |

APPENDIX - 9.30

DISTRICT-WISE POPULATION COVERED BY URBAN WATER SUPPLY SCHEME

| Sl. No. | District | 1990-91 | 1991-92 | 1992-93 | 1993-94 |
|---------|--------------------|----------------|----------------|----------------|----------------|
| 1. | Thiruvananthapuram | 562375 | 721140 | 728200 | 728200 |
| 2. | Kollam | 306300 | 309000 | 312400 | 312400 |
| 3. | Pathanamthitta | 83520 | 84350 | 85200 | 85200 |
| 4. | Alappuzha | 485000 | 489000 | 494700 | 494700 |
| 5. | Kottayam | 244000 | 246000 | 248000 | 248000 |
| 6. | Idukki | 10000 | 10600 | 38900 | 38900 |
| 7. | Ernakulam | 886800 | 895600 | 904500 | 904500 |
| 8. | Thrissur | 530100 | 535400 | 540700 | 540700 |
| 9. | Palakkad | 228300 | 230600 | 232800 | 232800 |
| 10. | Malappuram | 174300 | 176000 | 177700 | 177700 |
| 11. | Kozhikode | 548500 | 554000 | 559400 | 559400 |
| 12. | Wayanad | 10500 | 11000 | 11500 | 11500 |
| 13. | Kannur | 480300 | 485700 | 489900 | 489900 |
| 14. | Kasaragod | 221400 | 223600 | 225800 | 225800 |
| | Total | 4771395 | 4971990 | 5049700 | 5049700 |

APPENDIX - 9.3¹

INCOME AND EXPENDITURE OF KERALA WATER AUTHORITY (Rs. in lakhs)

| Year | Income | | | | | Expenditure | | | | | |
|---------|---------------------------------|-------------|----------|------------------|----------|----------------------------|--------------------|-----------|-------|--------|----------|
| | * Revenue from Water charges | State Govt. | | Other Sources | Total | Operation & Maintenance | Ongoing Schemes | Repayment | | | Total |
| | | Plan | Non-Plan | | | | | L.I.C. | HUDCO | Others | |
| 1985-86 | 1512.75 | 2741.00 | 711.00 | 543.81 | 5508.36 | 978.66 | 1083.38 | 199.82 | --- | --- | 2262.31 |
| 1986-87 | 1400.37 | 4164.94 | 1060.60 | 600.00 | 7225.81 | 1179.55 | 2982.80 | 195.18 | --- | --- | 4357.53 |
| 1987-88 | 1657.61 | 3967.52 | 1137.20 | 660.00 | 7422.33 | 1305.75 | 4819.31 | 208.95 | --- | --- | 6334.01 |
| 1988-89 | 1699.36 | 3918.49 | 2164.00 | 861.00 | 8642.85 | 1466.72 | 3517.80 | 259.30 | --- | --- | 5243.82 |
| 1989-90 | 2109.72 | 4800.00 | 2350.00 | 947.00 | 10206.72 | 606.92 | 4717.03 | 268.58 | --- | --- | 5592.53 |
| 1990-91 | 2197.29 | 5967.59 | 2585.00 | 1000.00 | 11749.88 | 1380.98 | 7920.31 | 276.02 | --- | --- | 9577.31 |
| 1991-92 | 2221.44 | 6693.00 | 2799.94 | 1347.00 | 13261.38 | 1758.98 | 6264.33 | 282.55 | --- | 200.00 | 8505.86 |
| 1992-93 | 3066.08 | 7916.57 | 2858.13 | 2455.00 | 16295.78 | 2334.75 | 7972.76 | 334.72 | 32.00 | --- | 10674.23 |

* Revenue : Total demand during the year.

APPENDIX - 10.1

DISTRICT-WISE BENEFICIARIES OF SURPLUS LAND AND EXTENT DISTRIBUTED AS ON 30-9-1994

| 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. | Thiruvananthapuram | 3099 | 335 | -- | -- | 2390 | 275 | 5489 | 610 |
| 2. | Kollam | 3419 | 775 | -- | -- | 3208 | 821 | 6627 | 1596 |
| 3. | Pathanamthitta | 330 | 86 | -- | -- | 394 | 68 | 724 | 154 |
| 4. | Alappuzha | 3968 | 2159 | 48 | 7 | 4322 | 2332 | 8338 | 4498 |
| 5. | Kottayam | 2417 | 1245 | 76 | 60 | 2841 | 1232 | 5334 | 2537 |
| 6. | Idukki | 2218 | 2042 | 360 | 315 | 2411 | 2138 | 4989 | 4495 |
| 7. | Ernakulam | 3900 | 735 | 40 | 5 | 2442 | 417 | 6382 | 1157 |
| 8. | Thrissur | 7590 | 1411 | 67 | 50 | 12436 | 2223 | 20093 | 3684 |
| 9. | Palakkad | 12517 | 5570 | 1218 | 947 | 12994 | 6251 | 26729 | 12768 |
| 10. | Malappuram | 8209 | 3380 | 34 | 12 | 7672 | 3976 | 15915 | 7368 |
| 11. | Kozhikode | 5023 | 1244 | 245 | 102 | 5991 | 1286 | 11259 | 2632 |
| 12. | Wayanad | 1334 | 475 | 2636 | 1522 | 2834 | 1323 | 6804 | 3320 |
| 13. | Kannur | 3975 | 2456 | 1862 | 1468 | 8325 | 5742 | 14162 | 9666 |
| 14. | Kasaragod | 3779 | 3218 | 782 | 666 | 6890 | 5763 | 11451 | 9647 |
| Total | | 61778 | 25131 | 7368 | 5154 | 75150 | 33847 | 144296 | 64132 |

DISPOSAL OF CASES RELATING TO TENANCY AND KUDIKIDAPPU

| Sl. No. | Item | Tenancy | | Kudikidappu | |
|---------|---|---------------------|---------------------|---------------------|---------------------|
| | | As on 30-11-1993 | As on 30-11-1994 | As on 30-11-1993 | As on 30-11-1994 |
| 1. | Total number of application filed | 3994802 | 4005732 | 477275 | 477824 |
| 2. | Disposal of cases | | | | |
| | 1. Allotted | 2638537 | 2645775 | 290266 | 290619 |
| | 2. Rejected | 785481 | 788361 | 162733 | 163040 |
| | 3. Other disposal | 552664 | 552938 | 20858 | 20838 |
| | Total | 3976682 | 3987074 | 473837 | 474497 |
| 3. | Balance of application to be disposed off | 18120 | 18658 | 3438 | 3327 |
| 4. | Number of certificates of purchase issued | 2610061 | 2614509 | 285776 | 285855 |

DISTRIBUTION OF SURPLUS LAND

| Sl. No. | Item | Unit | As on 30-11-93 | As on 30-9-94 |
|---------|---|-------|-------------------|------------------|
| | (1) | (2) | (3) | (4) |
| 1. | Total Ceiling return filed | No. | 71445 | 71565 |
| 2. | Total Ceiling returns decided | " | 70547 | 70580 |
| 3. | Balance to be decided | " | 898 | 979 |
| 4. | Area ordered to be surrendered Acres | acres | 17009 | 170991 |
| 5. | Area reduced on orders of High Court | " | 34083 | 34105 |
| 6. | Net extent of land ordered for surrender | " | 136326 | 136886 |
| 7. | Extent of land taken over | " | 93864 | 94499 |
| 8. | Area reconveyed on order of High Court | " | -- | -- |
| 9. | Net Extent taken over | " | 93864 | 94499 |
| 10. | Balance to be taken over | | | |
| i) | Covered by stay against taking possession | " | 23038 | 23380 |
| ii) | Not to be taken over by gift deposite, Vested Forest etc. | " | 18213 | 17926 |
| iii) | Extent available for taking over | " | 1211 | 1061 |
| II | Surplus land distributed | " | 63929 | 64132 |
| i) | Covered by stay against assisgrment | " | 4328 | 4654 |
| ii) | Not distributed due to gift vested Forest etc. | " | 4354 | 4431 |
| iii) | Reserved for public purpose | " | 20334 | 20273 |
| iv) | Available for distribution | " | 919 | 911 |

STATE SPECIFIC POVERTY LINES WITH BASE 1973 - 74

(Rs. per capita per month)

| Sl. No. | States/U.T.'s | Rural | | | | Urban | | | |
|---------------|-------------------|---------|---------|--------|---------|---------|---------|--------|---------|
| | | 1973-74 | 1977-78 | 1983 | 1987-88 | 1973-74 | 1977-78 | 1983 | 1987-88 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| STATES | | | | | | | | | |
| 1. | Andhra Pradesh | 41.71 | 50.88 | 72.68 | 91.94 | 55.11 | 71.56 | 111.84 | 159.50 |
| 2. | Arunachal Pradesh | 49.82 | 60.29 | 98.32 | 127.44 | 50.40 | 64.94 | 103.97 | 140.45 |
| 3. | Assam | 49.82 | 60.29 | 98.32 | 127.44 | 50.40 | 64.94 | 103.97 | 140.45 |
| 4. | Bihar | 57.68 | 58.93 | 97.48 | 120.36 | 60.29 | 70.24 | 116.47 | 161.19 |
| 5. | Goa | 50.47 | 58.07 | 88.24 | 115.61 | 58.64 | 74.64 | 127.23 | 184.45 |
| 6. | Gurarat | 47.10 | 54.70 | 83.29 | 115.00 | 60.08 | 74.86 | 125.05 | 175.57 |
| 7. | Haryana | 49.95 | 59.37 | 88.57 | 122.90 | 52.07 | 66.74 | 102.59 | 142.15 |
| 8. | Himachal Pradesh | 49.95 | 59.37 | 88.57 | 122.90 | 51.98 | 66.40 | 101.92 | 143.63 |
| 9. | Jammu & Kashmir | 46.59 | 61.53 | 91.75 | 124.33 | 41.19 | 59.35 | 98.75 | 145.22 |
| 10. | Karnataka | 47.24 | 51.95 | 83.31 | 104.46 | 57.87 | 71.25 | 121.23 | 171.23 |
| 11. | Kerala | 51.68 | 58.88 | 99.35 | 130.81 | 62.08 | 71.82 | 127.84 | 175.11 |
| 12. | Madhya Pradesh | 50.20 | 56.26 | 83.59 | 107.00 | 63.65 | 77.73 | 124.71 | 178.44 |
| 13. | Maharashtra | 50.47 | 58.07 | 88.24 | 115.61 | 58.64 | 64.94 | 127.23 | 184.45 |
| 14. | Manipur | 49.82 | 60.29 | 98.32 | 127.44 | 50.40 | 103.97 | 103.97 | 140.45 |
| 15. | Maghalaya | 49.82 | 60.29 | 98.32 | 127.44 | 50.40 | 64.94 | 103.97 | 140.45 |
| 16. | Mizoram | 49.82 | 60.29 | 98.32 | 127.44 | 50.40 | 64.94 | 103.97 | 140.45 |
| 17. | Nagaland | 49.82 | 60.29 | 98.32 | 127.44 | 50.40 | 64.94 | 103.97 | 140.45 |
| 18. | Orissa | 46.87 | 58.89 | 106.28 | 121.42 | 60.18 | 75.00 | 127.16 | 170.63 |
| 19. | Punjab | 49.95 | 59.37 | 88.57 | 122.90 | 51.80 | 66.06 | 101.25 | 143.11 |
| 20. | Rajasthan | 50.96 | 57.54 | 80.24 | 117.52 | 60.77 | 74.84 | 117.24 | 166.72 |
| 21. | Sikkim | 49.82 | 60.29 | 98.32 | 127.44 | 50.40 | 64.94 | 103.97 | 140.45 |
| 22. | Tamil Nadu | 45.09 | 56.62 | 96.15 | 118.23 | 54.34 | 71.18 | 123.73 | 174.82 |
| 23. | Tripura | 49.82 | 60.29 | 98.32 | 127.44 | 50.40 | 64.91 | 103.97 | 140.45 |
| 24. | Uttar Pradesh | 48.92 | 54.21 | 83.85 | 114.57 | 56.81 | 70.50 | 110.92 | 154.78 |
| 25. | West Bengal | 54.49 | 63.34 | 105.55 | 129.21 | 54.69 | 68.02 | 105.83 | 148.95 |
| U.T.'s | | | | | | | | | |
| 26. | Delhi | 49.95 | 59.37 | 88.57 | 122.90 | 65.45 | 80.00 | 124.02 | 178.48 |
| 27. | A & N Island | 45.09 | 56.62 | 96.15 | 118.23 | 54.34 | 71.18 | 123.73 | 174.82 |
| 28. | Chandigarh | 51.80 | 66.06 | 101.35 | 143.11 | 51.80 | 66.06 | 101.25 | 143.11 |
| 29. | D & N Haveli | 50.47 | 58.07 | 88.24 | 115.61 | 58.64 | 80.00 | 127.23 | 184.45 |
| 30. | Lakshadweep | 51.68 | 58.88 | 99.35 | 130.81 | 62.08 | 71.82 | 127.84 | 175.11 |
| 31. | Pondicherry | 45.09 | 56.62 | 96.15 | 118.23 | 54.34 | 71.18 | 123.73 | 174.82 |
| All India | | 49.00 | | | | 56.60 | | | |
| All India | | 49.63 | 56.84 | 89.45 | 115.43 | 56.96 | 72.50 | 117.64 | 165.58 |

* Source: Report of the Expert Group on Estimation of Proportion and Number of Poor constituted in September 1989 by the Planning Commission.

**NUMBER AND PERCENTAGE OF POOR BASED ON POVERTY LINES AS GIVEN IN
APPENDIX 10.4 (1987 - 88)**

| Sl. No. | State/U.T's | Rural | | Urban | | Combined | |
|------------------|-------------------|------------------------|--------------|------------------------|--------------|------------------------|--------------|
| | | No. of persons (lakhs) | % of persons | No. of persons (lakhs) | % of persons | No. of persons (lakhs) | % of persons |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| STATES | | | | | | | |
| 1. | Andhra Pradesh | 94.89 | 20.92 | 72.88 | 44.63 | 167.77 | 27.20 |
| 2. | Arunachal Pradesh | 2.73 | 39.35 | 0.11 | 17.34 | 2.84 | 37.47 |
| 3. | Assam | 80.86 | 39.35 | 4.58 | 17.34 | 85.44 | 36.84 |
| 4. | Bihar | 370.36 | 52.63 | 69.48 | 57.71 | 439.84 | 53.37 |
| 5. | Goa | 1.32 | 17.64 | 1.42 | 33.71 | 2.74 | 23.42 |
| 6. | Gujarat | 75.95 | 28.67 | 52.63 | 39.63 | 128.58 | 32.33 |
| 7. | Haryana | 18.75 | 16.22 | 7.15 | 17.79 | 25.90 | 16.63 |
| 8. | Himachal Pradesh | 7.37 | 16.28 | 0.25 | 6.18 | 7.62 | 15.46 |
| 9. | Jammu & Kashmir | 13.96 | 25.70 | 2.40 | 14.82 | 16.36 | 23.20 |
| 10. | Karnataka | 93.96 | 32.82 | 68.39 | 49.06 | 162.35 | 38.14 |
| 11. | Kerala | 66.20 | 29.10 | 26.02 | 43.36 | 92.22 | 32.08 |
| 12. | Madhya Pradesh | 195.85 | 41.92 | 70.04 | 48.17 | 265.89 | 43.40 |
| 13. | Maharashtra | 185.59 | 40.78 | 108.59 | 38.99 | 294.18 | 40.10 |
| 14. | Manipur | 4.68 | 39.35 | 0.85 | 17.34 | 5.53 | 32.93 |
| 15. | Meghalaya | 4.89 | 39.35 | 0.59 | 17.34 | 5.48 | 34.60 |
| 16. | Mizoram | 1.68 | 39.35 | 0.33 | 17.34 | 2.01 | 32.52 |
| 17. | Nagaland | 3.05 | 39.35 | 0.35 | 17.34 | 3.40 | 34.85 |
| 18. | Orissa | 148.02 | 57.64 | 19.94 | 44.11 | 167.96 | 55.61 |
| 19. | Punjab | 16.78 | 12.60 | 7.77 | 12.91 | 24.56 | 12.70 |
| 20. | Rajasthan | 103.02 | 33.21 | 38.17 | 38.99 | 141.19 | 34.60 |
| 21. | Sikkim | 1.25 | 39.35 | 0.15 | 17.34 | 1.40 | 34.67 |
| 22. | Tamil Nadu | 160.67 | 45.80 | 82.54 | 43.88 | 243.20 | 45.13 |
| 23. | Tripura | 8.49 | 39.35 | 0.48 | 17.34 | 8.97 | 36.84 |
| 24. | Uttar Pradesh | 412.03 | 41.10 | 125.02 | 45.22 | 537.05 | 41.99 |
| 25. | West Bengal | 219.09 | 48.30 | 57.63 | 32.84 | 276.72 | 43.99 |
| U T's | | | | | | | |
| 26. | Delhi | 0.06 | 1.29 | 12.74 | 16.91 | 12.80 | 16.04 |
| 27. | A & N Island | 0.80 | 46.80 | 0.32 | 43.88 | 1.12 | 45.24 |
| 28. | Chandigarh | 0.04 | 12.91 | 0.76 | 12.91 | 0.80 | 12.91 |
| 29. | D & N Haveli | 0.21 | 17.64 | 0.03 | 33.71 | 0.24 | 8.71 |
| 30. | Lakshadweep | 0.06 | 29.10 | 0.12 | 43.36 | 0.18 | 37.26 |
| 31. | Pondicherry | 1.35 | 45.80 | 1.80 | 43.88 | 3.15 | 44.68 |
| All India | | 2293.96 | 39.06 | 833.52 | 40.12 | 3127.48 | 39.34 |

* Source: Report of the Expert Group on Estimation of Proportion and Number of Poor constituted in September 1989 by the Planning Commission.

APPENDIX - 10.6

**ADMISSION DETAILS OF SCHEDULED CASTES/SCHEDULED TRIBES STUDENTS IN
MEDICAL AND PARA MEDICAL COURSES DURING 1992-93 AND 1993-94**

| Course | 1992-93 | | | 1993-94 | | |
|-----------------------------|---------|----|----|---------|----|----|
| | General | SC | ST | General | SC | ST |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Medical (MBBS) | 547 | 44 | 11 | 700 | 44 | 11 |
| Dental (BDS) | 53 | 4 | 1 | 70 | 4 | 1 |
| B.Sc (Nursing) | 146 | 10 | 5 | 150 | 10 | 5 |
| Pharmacy (B.Pharm) | 15 | 1 | -- | 28 | 1 | -- |
| B.Sc. (MLT) | 21 | 2 | -- | 24 | 2 | -- |
| | 782 | 61 | 17 | 279 | 61 | 17 |
| Para Medical Courses | | | | | | |
| MLT | 126 | 10 | 3 | 155 | 16 | 20 |
| C.R.A | 77 | 6 | 2 | 110 | 8 | 30 |
| Ophthalmic Asst. | 53 | 4 | 1 | 80 | 5 | 20 |
| D.Pharm I Year | 80 | 6 | 2 | 115 | 38 | -- |
| Nursing (PIPMS) | -- | 60 | -- | -- | 60 | -- |
| MLT | -- | 20 | -- | -- | 20 | -- |
| CRA | -- | 30 | -- | -- | 30 | -- |
| Ophthalmic Asst. | -- | 20 | -- | -- | 20 | -- |
| Dental Mechanic (PIPMS) | -- | 10 | -- | -- | 10 | -- |
| MLT (P.H.Lab, TVPM) | -- | -- | -- | -- | 30 | -- |

APPENDIX 10.7

DISTRICT-WISE DETAILS OF INSTITUTIONS UNDER THE SCHEDULED CASTES DEVELOPMENT DEPARTMENT AS ON 30-12-1994

| District | Balawadies/ feeding centres | Boys Hostels | Girls hostels | Other institutions |
|--------------------|-----------------------------------|-----------------|------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 |
| Thiruvananthapuram | 13 | 3 | 5 | 92 |
| Kollam | 6 | 5 | 4 | 49 |
| Pathanamthitta | 8 | 2 | 4 | 40 |
| Alappuzha | 7 | -- | 4 | 42 |
| Kottayam | 3 | 1 | 3 | 73 |
| Idukki | 1 | 2 | 3 | 21 |
| Emakulam | 15 | 2 | 3 | 109 |
| Thrissur | 8 | 5 | 3 | 92 |
| Palakkad | 1 | 11 | 6 | 49 |
| Malappuram | 1 | 7 | 4 | 61 |
| Kozhikode | 2 | 5 | 3 | 67 |
| Wayanad | -- | -- | 1 | 18 |
| Kannur | 6 | 5 | 3 | 49 |
| Kasaragode | 5 | 5 | 2 | 26 |
| | 76 | 53 | 48 | 788 |

APPENDIX 10.8

NUMBER OF HOUSES CONSTRUCTED BY THE SCHEDULED CASTES DEVELOPMENT DEPARTMENT UNDER THE SCHEME HOUSING GRANT, IHDP, REHABILITATION

| District | 1991 - 92 | 1992 - 93 | 1993 - 94 |
|--------------------|-----------|-----------|-----------|
| 1 | 2 | 3 | 4 |
| Thiruvananthapuram | 242 | 217 | 208 |
| Kollam | 53 | 218 | 224 |
| Alappuzha | 102 | 169 | 138 |
| Pathanamthitta | 21 | 167 | 72 |
| Kottayam | 44 | 126 | 191 |
| Idukki | 68 | 68 | 96 |
| Emakulam | 178 | 214 | 228 |
| Thrissur | 37 | 257 | 135 |
| Palakkad | 184 | 430 | 266 |
| Malappuram | 60 | 110 | 285 |
| Kozhikode | 97 | 82 | 82 |
| Wayanad | 27 | 14 | 17 |
| Kannur | 22 | 28 | 12 |
| Kasaragode | 86 | 183 | 76 |
| | 1221 | 2283 | 2030 |

APPENDIX - 10.9

DISTRICT-WISE DETAILS OF INSTITUTIONS UNDER THE SCHEDULED TRIBES
DEVELOPMENT DEPARTMENT AS ON 31-12-1994.

| District | Balawadies | Boys Hostels | Girls Hostel | Nursery school | M.R. School | PCTC | NWTC | Craft Centre | Tailoring Centre | Midwife Centre | Ayurveda Hospital | Ayurveda Dispensaries | Allopathic Hospital | Allopathic Dispensary | Mobile Medical | Mobile Employment | Total |
|--------------------|------------|--------------|--------------|----------------|-------------|----------|----------|--------------|------------------|----------------|-------------------|-----------------------|---------------------|-----------------------|----------------|-------------------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| Thiruvananthapuram | 6 | 2 | 1 | 3 | 1 | 2 | 1 | 3 | -- | -- | -- | 2 | -- | -- | 1 | -- | 22 |
| Kollam | 4 | 2 | 2 | 1 | -- | -- | 2 | -- | -- | 1 | -- | 1 | -- | -- | -- | -- | 13 |
| Alappuzha | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pathanamthitta | 1 | 2 | 1 | -- | -- | -- | -- | 2 | 1 | -- | -- | 1 | -- | -- | -- | -- | 7 |
| Kottayam | 3 | 1 | 2 | -- | -- | -- | 1 | -- | 3 | -- | -- | -- | -- | -- | -- | -- | 10 |
| Idukki | -- | 14 | 7 | 3 | -- | 1 | -- | -- | -- | -- | -- | 6 | -- | 1 | 1 | 1 | 34 |
| Emakulam | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Thrissur | 1 | 2 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4 |
| Palakkad | -- | 14 | 3 | 1 | -- | -- | 2 | 1 | 1 | -- | -- | 1 | -- | 1 | -- | -- | 25 |
| Malappuram | -- | 8 | 3 | -- | 1 | -- | -- | -- | 2 | -- | -- | 1 | -- | -- | -- | -- | 15 |
| Kozhikode | 1 | 3 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5 |
| Wayanad | -- | 25 | 8 | 5 | 2 | -- | 1 | 3 | 1 | 3 | -- | 3 | 1 | 1 | -- | 1 | 54 |
| Kannur | 12 | 9 | 2 | 1 | -- | -- | -- | 1 | -- | 1 | 1 | 1 | -- | -- | -- | -- | 28 |
| Kasaragod | 2 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1 | -- | -- | -- | -- | 5 |
| Total | 30 | 84 | 31 | 14 | 4 | 3 | 7 | 10 | 8 | 5 | 1 | 17 | 1 | 3 | 2 | 2 | 222 |

**NUMBER OF HOUSES CONSTRUCTED BY THE SCHEDULED TRIBES
DEVELOPMENT DEPARTMENT DEPARTMENT**

| District | Year | | |
|--------------------|---------|---------|---------|
| | 1991-92 | 1992-93 | 1993-94 |
| 1 | 2 | 3 | 4 |
| Thiruvananthapuram | 36 | 11 | 37 |
| Kollam | -- | 5 | 11 |
| Alappuzha | -- | 8 | 8 |
| Pathanamthitta | 15 | 14 | 1 |
| Kottayam | 38 | 28 | 18 |
| Idukki | 43 | 27 | 105 |
| Ernakulam | -- | 2 | 11 |
| Thrissur | 13 | 8 | 16 |
| Palakkad | 91 | 41 | 130 |
| Malappuram | 65 | -- | 37 |
| Kozhikode | 4 | 5 | 15 |
| Wayanad | 154 | 346 | 390 |
| Kannur | 18 | 36 | 82 |
| Kasarode | 43 | 95 | 19 |
| | 520 | 626 | 880 |

**ACHIEVEMENT OF KERALA STATE DEVELOPMENT CORPORATION FOR
SCHEDULED CASTE/SCHEDULED TRIBE AS ON 31-3-1994**

| Name of Scheme | No. of beneficiaries | | | | Amount Spent (Rs. lakhs) | | | |
|--|----------------------|-------------|-------------|-------------|--------------------------|---------------|---------------|---------------|
| | 90-91 | 92-92 | 192-93 | 93-94 | 90-91 | 91-92 | 92-93 | 93-94 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1. Agricultural Land Purchase Scheme | 736 | 66 | 326 | 2 | 105.20 | 9.55 | 75.45 | 0.46 |
| 2. Foreign Employment Scheme | 130 | 184 | 130 | 41 | 13.00 | 18.40 | 13.00 | 4.10 |
| 3. Housing Scheme | 1249 | 739 | 1060 | 1683 | 69.81 | 110.44 | 204.13 | 115.85 |
| 4. Margin Money Deposit Scheme | 2194 | 1886 | 1909 | 3087 | 71.47 | 78.49 | 84.23 | 408.65 |
| 5. Seed Money Scheme | 56 | 6 | -- | 6 | 1.47 | 0.14 | -- | 1.47 |
| 6. Margin Money Loan Scheme | 3 | 4 | 2 | 31 | 2.53 | 2.00 | 0.96 | 37.45 |
| 7. Job Training Programme | 20 | 45 | 11 | 1609 | 0.32 | 1.09 | 1.08 | 10.28 |
| 8. Transport Scheme No.I | -- | -- | 169 | -- | -- | -- | 7177 | -- |
| 9. Transport Scheme No.II | -- | -- | 195 | -- | -- | -- | 157.48 | 22.44 |
| 10. Commercial Centre Scheme | -- | -- | 96 | 164 | -- | -- | 36.06 | 88.79 |
| 11. Scavenger Rehabilitation Scheme | -- | -- | 86 | 116 | -- | -- | 3.32 | 17.11 |
| 12. Scavenger Training Programme | -- | -- | -- | 144 | -- | -- | -- | 1.90 |
| 13. Loan to Co-operative Societies (under Transport Scheme No.III) | -- | -- | -- | 188 | -- | -- | -- | 22.50 |
| 14. Medical Store Scheme | -- | -- | -- | 6 | -- | -- | -- | 0.92 |
| 15. Video Scheme | -- | -- | -- | 2 | -- | -- | -- | 2.88 |
| 16. Transport Scheme No.III | -- | -- | -- | 250 | -- | -- | -- | 39.35 |
| 17. Transport Scheme No.IV | -- | -- | -- | 375 | -- | -- | -- | 144.58 |
| 18. Tourism Scheme | -- | -- | -- | 4 | -- | -- | -- | 0.94 |
| 19. Vegetable Stall | -- | -- | -- | 20 | -- | -- | -- | 2.00 |
| 20. Milch Animal | -- | -- | -- | 11 | -- | -- | -- | 1.22 |
| Total | 4388 | 2930 | 3983 | 7709 | 263.90 | 220.11 | 647.46 | 922.84 |

**DISTRICT-WISE DETAILS OF REGISTERED UNEMPLOYED
SCHEDULED CASTES/SCHEDULED TRIBES AS ON 31-3-1994.**

| District | Scheduled Castes | Scheduled Tribes |
|---|------------------|------------------|
| 1 | 2 | 3 |
| Thiruvananthapuram | 62183 | 3062 |
| Kollam | 47013 | 307 |
| Alappuzha | 33301 | 530 |
| Pathanamthitta | 20165 | 443 |
| Kottayam | 23546 | 2209 |
| Idukki | 7892 | 3862 |
| Ernakulam | 42250 | 820 |
| Thrissur | 42432 | 290 |
| Palghat | 28025 | 704 |
| Malappuram | 29724 | 321 |
| Kozhikode | 30457 | 168 |
| Wayanad | 2430 | 4188 |
| Kannur | 12955 | 585 |
| Kasaragod | 4219 | 1271 |
| Professional & Executive Employment Exchange, Thiruvananthapuram. | 1067 | 22 |
| Total | 387659 | 18782 |

STATE-WISE FINANCIAL ASSISTANCE DISBURSED BY ALL INDIA FINANCIAL INSTITUTIONS DURING 1992-93

(Rs. in crores)

| Sl. No. | States | IDBI | % to total | IFCI | % to total | ICICI | % to total | UTI | % to total | GIC | % to total | LIC | % to total | NABARD | % to total | NCDC | % to total | Grand Total | % to Total |
|---------|-------------------|--------|------------|--------|------------|--------|------------|--------|------------|-------|------------|-------|------------|--------|------------|-------|------------|-------------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1. | Andhra Pradesh | 612.7 | 9.7 | 129.2 | 7.5 | 157.9 | 4.8 | 232.6 | 5.1 | 10.3 | 2.3 | 9.7 | 1.0 | 265.6 | 11.3 | 11.3 | 3.5 | 1429.3 | 7.1 |
| 2. | Assam | 50.8 | 0.8 | 14.0 | 0.8 | 11.7 | 0.4 | 5.3 | 0.1 | -- | -- | 1.0 | -- | 22.0 | 0.9 | 8.4 | 2.6 | 113.2 | 0.6 |
| 3. | Bihar | 225.1 | 3.6 | 21.6 | 1.3 | 126.1 | 3.8 | -- | -- | 2.7 | 0.6 | 36.0 | 3.8 | 80.7 | 3.4 | 4.1 | 1.3 | 496.3 | 2.5 |
| 4. | Gujarat | 1069.9 | 16.9 | 190.2 | 10.9 | 559.5 | 16.9 | 103.1 | 2.3 | 29.8 | 6.7 | 109.2 | 11.6 | 126.8 | 5.4 | 5.2 | 1.6 | 2193.7 | 11.0 |
| 5. | Haryana | 136.4 | 2.2 | 71.7 | 4.1 | 61.2 | 1.9 | 0.8 | -- | 1.0 | 0.2 | 6.6 | 0.7 | 98.9 | 4.2 | 1.6 | 0.5 | 378.2 | 1.9 |
| 6. | Karnataka | 363.7 | 5.7 | 79.1 | 4.6 | 149.6 | 4.5 | 69.6 | 1.5 | 10.2 | 2.3 | 22.0 | 2.3 | 198.8 | 8.4 | 31.3 | 9.6 | 924.3 | 4.6 |
| 7. | Kerala | 113.5 | 1.8 | 7.5 | 0.4 | 41.6 | 1.3 | 2.0 | -- | 0.6 | 0.1 | 3.3 | 0.4 | 103.9 | 4.4 | 8.7 | 2.7 | 281.1 | 1.4 |
| 8. | Madhya Pradesh | 360.6 | 5.7 | 180.0 | 10.4 | 205.0 | 6.1 | 11.4 | 0.3 | 1.2 | 0.3 | 37.8 | 4.0 | 153.3 | 6.5 | 25.9 | 7.9 | 975.2 | 4.9 |
| 9. | Maharashtra | 1137.7 | 17.9 | 269.1 | 15.5 | 1042.8 | 31.5 | 1569.8 | 34.5 | 293.1 | 65.9 | 279.9 | 29.6 | 272.1 | 11.5 | 60.1 | 18.5 | 4924.6 | 24.6 |
| 10. | Orissa | 145.2 | 2.3 | 40.1 | 2.3 | 40.8 | 1.2 | 2.3 | -- | 8.2 | 1.8 | 21.4 | 2.3 | 61.4 | 2.6 | 5.4 | 1.7 | 324.8 | 1.6 |
| 11. | Punjab | 101.6 | 1.6 | 124.2 | 7.2 | 37.4 | 1.1 | 12.1 | 0.3 | 8.3 | 1.9 | 19.7 | 2.1 | 121.7 | 5.2 | 12.1 | 3.7 | 347.1 | 2.2 |
| 12. | Rajasthan | 508.0 | 8.0 | 168.2 | 9.7 | 174.8 | 5.3 | 12.7 | 0.3 | 6.3 | 1.4 | 20.7 | 2.2 | 128.5 | 5.5 | 40.6 | 12.4 | 1059.8 | 5.3 |
| 13. | Tamil Nadu | 554.0 | 8.7 | 124.8 | 7.2 | 309.3 | 9.3 | 72.8 | 1.6 | 20.0 | 4.5 | 45.7 | 4.8 | 168.8 | 7.2 | 39.9 | 12.3 | 1335.3 | 6.7 |
| 14. | Uttar Pradesh | 432.1 | 6.8 | 187.4 | 10.8 | 134.4 | 4.1 | 18.2 | 0.4 | 6.4 | 1.4 | 18.6 | 2.0 | 412.2 | 17.5 | 36.3 | 11.2 | 1245.6 | 6.2 |
| 15. | West Bengal | 225.4 | 3.6 | 39.8 | 2.3 | 132.0 | 3.9 | 20.9 | 0.5 | 34.7 | 7.8 | 61.4 | 6.5 | 105.9 | 4.5 | 8.3 | 2.6 | 628.4 | 3.1 |
| | Total | 6036.0 | 95.3 | 1646.9 | 96.1 | 3184.1 | 96.1 | 2133.6 | 46.9 | 432.8 | 97.2 | 693.0 | 73.3 | 2320.6 | 98.4 | 299.2 | 92.0 | 16746.9 | 83.7 |
| | Total = All India | 6338.0 | 100.0 | 1732.5 | 100.0 | 3315.2 | 100.0 | 4548.3 | 100.0 | 445.1 | 100.0 | 945.4 | 100.00 | 2359.1 | 100.0 | 325.2 | 100.0 | 20008.8 | 100.0 |

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Source : 1. IDBI - Report on development banking in India (1992-93)
 2. N.C.D.C. 3. NABARD - Annual Report 1992-93.

APPENDIX - 11.2

STATE-WISE FINANCIAL ASSISTANCE DISBURSED BY ALL INDIA FINANCIAL INSTITUTIONS AS AT THE END OF MARCH 1993 (Cumulative)

(Rupees in Crores)

| Sl. No. | States | IDBI | % to total | ICFI | % to total | ICICI | % to total | UTI | % to total | LIC | % to total | NABARD | % to total | NCDC | % to total | Grand Total | % to Total |
|-----------|----------------|---------|------------|---------|------------|---------|------------|---------|------------|--------|------------|---------|------------|--------|------------|-------------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 1. | Andhra Pradesh | 4054.2 | 9.3 | 954.6 | 9.2 | 1143.4 | 6.2 | 555.1 | 4.9 | 498.9 | 9.6 | 2011.1 | 10.1 | 165.6 | 6.4 | 9382.9 | 8.5 |
| 2. | Assam | 399.3 | 0.9 | 88.8 | 0.9 | 82.7 | 0.5 | 17.8 | 0.2 | 20.7 | 0.4 | 242.3 | 1.3 | 72.5 | 2.8 | 924.1 | 0.8 |
| 3. | Bihar | 990.0 | 2.3 | 141.1 | 1.4 | 511.7 | 2.8 | 141.3 | 1.3 | 303.4 | 5.8 | 1004.4 | 5.4 | 63.5 | 2.5 | 3155.4 | 2.9 |
| 4. | Gujarat | 5645.3 | 13.0 | 1197.4 | 11.5 | 2926.6 | 15.8 | 821.4 | 7.3 | 780.2 | 15.0 | 928.0 | 5.0 | 71.5 | 2.8 | 12370.6 | 11.2 |
| 5. | Haryana | 1284.5 | 3.0 | 392.6 | 3.8 | 458.4 | 2.5 | 71.8 | 0.6 | 29.3 | 0.6 | 1019.7 | 5.4 | 53.2 | 2.1 | 3309.5 | 3.0 |
| 6. | Karnataka | 2831.6 | 6.5 | 515.1 | 5.0 | 1111.3 | 6.0 | 358.4 | 3.2 | 214.2 | 4.1 | 1447.0 | 7.7 | 189.9 | 7.4 | 6667.5 | 6.1 |
| 7. | Kerala | 1195.6 | 2.7 | 141.6 | 1.4 | 208.9 | 1.1 | 24.8 | 0.2 | 41.1 | 0.8 | 729.8 | 3.9 | 121.8 | 4.7 | 2463.6 | 2.2 |
| 8. | Madhya Pradesh | 2440.3 | 5.6 | 689.3 | 6.6 | 887.9 | 4.8 | 322.1 | 2.8 | 162.1 | 3.1 | 1340.4 | 7.2 | 273.7 | 10.6 | 6115.8 | 5.6 |
| 9. | Maharashtra | 6836.4 | 15.7 | 1654.3 | 15.9 | 5370.4 | 29.0 | 4380.6 | 38.8 | 1287.9 | 24.7 | 1946.9 | 10.4 | 411.0 | 16.0 | 21887.5 | 19.8 |
| 10. | Orissa | 1347.4 | 3.1 | 294.2 | 2.8 | 352.9 | 1.9 | 64.3 | 0.6 | 90.6 | 1.7 | 553.6 | 3.0 | 79.1 | 3.1 | 2782.1 | 2.5 |
| 11. | Punjab | 1315.2 | 3.0 | 660.9 | 6.4 | 357.9 | 1.9 | 100.3 | 0.9 | 67.5 | 1.3 | 1436.2 | 7.7 | 156.8 | 6.1 | 4094.8 | 3.7 |
| 12. | Rajasthan | 2068.0 | 4.7 | 615.9 | 5.9 | 734.6 | 4.0 | 156.4 | 1.4 | 130.0 | 2.5 | 919.7 | 4.9 | 197.0 | 7.7 | 4811.6 | 4.4 |
| 13. | Tamil Nadu | 4378.1 | 10.1 | 803.6 | 7.7 | 1835.8 | 9.9 | 517.5 | 4.6 | 446.2 | 8.5 | 1199.8 | 6.4 | 167.8 | 6.5 | 9348.8 | 8.5 |
| 14. | Uttar Pradesh | 4102.2 | 9.4 | 1375.5 | 13.2 | 1135.9 | 6.1 | 514.1 | 4.5 | 209.2 | 4.0 | 2960.1 | 15.8 | 352.7 | 13.7 | 10649.7 | 9.7 |
| 15. | West Bengal | 2062.7 | 4.7 | 337.5 | 3.3 | 731.3 | 4.0 | 387.9 | 3.4 | 364.9 | 7.0 | 681.8 | 3.6 | 90.0 | 3.5 | 4656.1 | 4.2 |
| Total | | 40941.0 | 94.0 | 9862.4 | 95.0 | 17849.7 | 96.5 | 8433.8 | 74.7 | 4646.2 | 89.1 | 18420.8 | 98.4 | 2466.1 | 96.0 | 102620.0 | 93.1 |
| All India | | 43565.2 | 100.0 | 10382.7 | 100.0 | 18497.6 | 100.0 | 11284.2 | 100.0 | 5214.1 | 100.0 | 18723.1 | 100.0 | 2568.4 | 100.0 | 110235.3 | 100.0 |

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Source : 1. IDBI - Report on Development Banking in India 1992-93.
2. NABARD - Annual Report 1992-93 3. NCDC.

APPENDIX - 11.3

STATEWISE PERCAPITA ASSISTANCE DISBURSED BY ALL INDIA FINANCIAL INSTITUTIONS DURING 1991-92 AND 1992-93

(Rupees)

| Sl. No. | States | IDBI | | IFCI | | ICICI | | LIC | | UTI | | GIC | | Total | |
|---------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 1991-92 | 1992-93 | 1991-92 | 1992-93 | 1991-92 | 1992-93 | 1991-92 | 1992-93 | 1991-92 | 1992-93 | 1991-92 | 1992-93 | 1991-92 | 1992-93 |
| 1. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1. | Andhra Pradesh | 91.2 | 89.3 | 23.7 | 18.8 | 29.1 | 23.0 | 25.5 | 1.4 | 25.7 | 33.9 | 0.5 | 1.5 | 195.7 | 167.9 |
| 2. | Assam | 25.2 | 21.7 | 7.5 | 6.0 | 13.5 | 5.0 | 1.9 | 0.4 | 2.8 | 2.3 | 0.1 | -- | 51.0 | 35.4 |
| 3. | Bihar | 14.3 | 25.0 | 1.5 | 2.4 | 5.8 | 14.0 | 9.6 | 4.0 | 0.3 | -- | 1.0 | 0.3 | 32.5 | 45.7 |
| 4. | Gujarat | 134.9 | 251.7 | 45.4 | 44.8 | 76.3 | 131.6 | 21.4 | 25.7 | 48.2 | 24.3 | 17.3 | 7.0 | 343.5 | 485.1 |
| 5. | Haryana | 84.6 | 80.0 | 42.6 | 42.1 | 34.4 | 35.9 | 5.3 | 3.9 | 8.9 | 0.5 | 0.9 | 0.6 | 176.7 | 163.0 |
| 6. | Karnataka | 56.1 | 74.0 | 11.6 | 17.0 | 30.9 | 32.2 | 4.4 | 4.7 | 10.3 | 15.0 | 1.2 | 2.2 | 114.5 | 145.1 |
| 7. | Kerala | 38.4 | 37.9 | 4.2 | 2.5 | 6.9 | 13.9 | 0.4 | 1.1 | 2.4 | 0.7 | 0.2 | 0.2 | 52.5 | 56.3 |
| 8. | Madhya Pradesh | 47.4 | 52.5 | 15.2 | 26.2 | 19.8 | 29.8 | 3.7 | 5.5 | 3.4 | 1.7 | 0.4 | 0.2 | 89.9 | 115.9 |
| 9. | Maharashtra | 131.8 | 140.0 | 37.1 | 33.1 | 94.0 | 128.4 | 28.3 | 34.5 | 144.5 | 193.2 | 11.4 | 36.1 | 447.1 | 565.3 |
| 10. | Orissa | 43.4 | 44.4 | 13.4 | 12.3 | 22.0 | 12.5 | 4.0 | 6.5 | 2.0 | 0.7 | 1.2 | 2.5 | 86.0 | 78.9 |
| 11. | Punjab | 63.9 | 49.0 | 42.1 | 59.9 | 11.9 | 18.0 | 2.4 | 9.5 | 2.5 | 5.8 | 3.2 | 4.0 | 126.0 | 146.2 |
| 12. | Rajasthan | 51.4 | 109.8 | 20.5 | 36.4 | 20.7 | 37.8 | 4.1 | 4.5 | 5.8 | 2.7 | 1.6 | 1.4 | 104.1 | 192.6 |
| 13. | Tamil Nadu | 74.5 | 96.7 | 20.7 | 21.8 | 36.9 | 54.0 | 19.1 | 8.0 | 10.4 | 12.7 | 3.4 | 3.5 | 165.0 | 196.7 |
| 14. | Uttar pradesh | 27.1 | 29.8 | 17.2 | 12.9 | 10.3 | 9.3 | 2.6 | 1.3 | 9.0 | 1.3 | 0.1 | 0.4 | 66.3 | 55.0 |
| 15. | West Bengal | 30.9 | 32.1 | 4.9 | 5.7 | 6.7 | 18.8 | 5.1 | 8.7 | 5.7 | 3.0 | 1.8 | 4.9 | 55.1 | 73.2 |
| | All India | 60.4 | 72.3 | 19.0 | 19.8 | 27.8 | 37.8 | 11.5 | 10.8 | 23.8 | 51.9 | 2.9 | 5.1 | 144.5 | 197.7 |

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Source: IDBI - Report on Development Banking in India - 1992-93.

APPENDIX - 11.4

STATE WISE GROWTH OF BANK OFFICES IN INDIA (Including Private Scheduled Commercial Banks)

| Sl. No. | States | No. of Banks as at the end of | | | | % to total number of offices | | | | No. of offices per lakh of population | | | |
|------------------|----------------|-------------------------------|------------|------------|------------|------------------------------|------------|------------|------------|---------------------------------------|------------|------------|------------|
| | | June 1969 | March 1992 | March 1993 | March 1994 | June 199 | March 1992 | March 1993 | March 1994 | June 1969 | March 1992 | March 1993 | March 1994 |
| 1. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1. | Andhra Pradesh | 567 | 4642 | 4678 | 4749 | 6.9 | 7.7 | 7.6 | 7.7 | 1.4 | 7.0 | 6.8 | 6.8 |
| 2. | Assam | 74 | 1217 | 1221 | 1226 | 0.9 | 2.0 | 2.0 | 2.0 | 0.5 | 5.5 | 5.2 | 5.1 |
| 3. | Bihar | 273 | 4872 | 4897 | 4910 | 3.3 | 8.0 | 8.0 | 7.9 | 0.5 | 5.6 | 5.4 | 5.3 |
| 4. | Gujarat | 752 | 3394 | 3425 | 3460 | 9.1 | 5.6 | 5.6 | 5.6 | 3.0 | 8.2 | 8.1 | 8.0 |
| 5. | Haryana | 172 | 1267 | 1286 | 1312 | 2.1 | 2.1 | 2.1 | 2.1 | 1.8 | 7.8 | 7.5 | 7.6 |
| 6. | Karnataka | 756 | 4300 | 4334 | 4364 | 9.2 | 7.1 | 7.1 | 7.1 | 2.7 | 9.6 | 9.3 | 9.2 |
| 7. | Kerala | 601 | 2853 | 2885 | 2948 | 7.3 | 4.7 | 4.7 | 4.8 | 2.9 | 9.8 | 9.6 | 9.7 |
| 8. | Madhya Pradesh | 343 | 4365 | 4412 | 4439 | 4.2 | 7.2 | 7.2 | 7.2 | 0.9 | 6.6 | 6.4 | 6.3 |
| 9. | Maharashtra | 1118 | 5623 | 5669 | 5724 | 13.5 | 9.3 | 9.3 | 9.3 | 2.3 | 7.1 | 7.0 | 6.9 |
| 10. | Orissa | 100 | 2092 | 2124 | 2144 | 1.2 | 3.5 | 3.5 | 3.5 | 0.5 | 6.6 | 6.5 | 6.5 |
| 11. | Punjab | 346 | 2148 | 2169 | 2206 | 4.2 | 3.5 | 3.5 | 3.6 | 2.6 | 10.6 | 10.5 | 10.5 |
| 12. | Rajasthan | 364 | 3057 | 3090 | 3138 | 4.4 | 5.1 | 5.1 | 5.1 | 1.5 | 7.0 | 6.7 | 6.6 |
| 13. | Tamil Nadu | 1060 | 4316 | 4368 | 4438 | 12.8 | 7.1 | 7.1 | 7.2 | 2.7 | 7.8 | 7.6 | 7.7 |
| 14. | Uttar Pradesh | 747 | 8500 | 8557 | 8608 | 9.0 | 14.0 | 14.0 | 13.9 | 0.9 | 6.1 | 5.9 | 5.8 |
| 15. | West Bengal | 504 | 4218 | 4242 | 4265 | 6.1 | 7.0 | 6.9 | 6.9 | 1.2 | 6.2 | 6.0 | 6.0 |
| Total | | 7777 | 56864 | 57357 | 57931 | 94.1 | 93.7 | 93.7 | 93.7 | | | | |
| Total: All India | | 8262 | 60690 | 61235 | 61852 | 100.0 | 100.0 | 100.0 | 100.0 | 1.5 | 7.2 | 7.0 | 6.9 |

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Source: C.M.I. - BASIC STATISTICS RELATING TO INDIAN ECONOMY, August 1994.

APPENDIX - 11.5

DISBURSEMENT BY NCDC AND NABARD DURING 1993-94

| Sl. No. | States | NCDC | | | | NABARD | | | | TOTAL | | | |
|-----------------|---------------|---------|------------|----------------------------|------------|---------|------------|----------------------------|------------|---------|------------|----------------------------|------------|
| | | 1993-94 | % to Total | Cumulative (As on 31.3.94) | % to Total | 1993-94 | % to Total | Cumulative (As on 31.3.94) | % to Total | 1993-94 | % to Total | Cumulative (As on 31.3.94) | % to Total |
| 1. | Andra Pradesh | 10.61 | 3.70 | 176.21 | 6.17 | 335.45 | 12.22 | 2346.51 | 10.93 | 346.06 | 11.42 | 2522.72 | 10.37 |
| 2. | Assam | 0.22 | 0.08 | 72.72 | 2.55 | 26.85 | 0.98 | 269.17 | 1.25 | 27.07 | 0.89 | 341.89 | 1.41 |
| 3. | Bihar | 5.47 | 1.90 | 68.97 | 2.42 | 81.15 | 2.96 | 1085.51 | 5.06 | 86.62 | 2.86 | 1154.48 | 4.75 |
| 4. | Gujarat | 3.77 | 1.32 | 75.27 | 2.64 | 168.78 | 6.15 | 1096.79 | 5.11 | 172.55 | 5.69 | 1172.06 | 4.82 |
| 5. | Haryana | 2.18 | 0.76 | 55.38 | 1.94 | 141.60 | 5.16 | 1161.39 | 5.41 | 143.84 | 4.75 | 1216.77 | 5.00 |
| 6. | Karnataka | 15.18 | 5.29 | 205.08 | 7.18 | 235.68 | 8.59 | 1682.70 | 7.84 | 250.86 | 8.28 | 1887.78 | 7.76 |
| 7. | Kerala | 23.18 | 8.09 | 144.98 | 5.08 | 125.25 | 4.56 | 855.08 | 3.98 | 148.43 | 4.90 | 1000.06 | 4.11 |
| 8. | Madhyapradesh | 20.75 | 7.24 | 294.45 | 10.31 | 138.01 | 5.03 | 1478.45 | 6.89 | 158.76 | 5.24 | 1772.90 | 7.29 |
| 9. | Maharashtra | 59.15 | 20.63 | 470.15 | 16.47 | 326.54 | 11.90 | 2273.42 | 10.59 | 385.69 | 12.72 | 2743.57 | 11.28 |
| 10. | Orissa | 8.55 | 2.98 | 87.65 | 3.07 | 72.58 | 2.64 | 626.21 | 2.92 | 81.13 | 2.68 | 713.86 | 2.94 |
| 11. | Punjab | 13.78 | 4.81 | 170.58 | 5.98 | 146.66 | 5.34 | 1582.83 | 7.37 | 160.14 | 5.28 | 1753.41 | 7.21 |
| 12. | Rajasthan | 22.75 | 7.93 | 219.75 | 7.70 | 141.92 | 5.17 | 1061.58 | 4.95 | 164.67 | 5.43 | 1281.33 | 5.27 |
| 13. | Tamil Nadu | 63.50 | 22.15 | 231.30 | 8.10 | 214.07 | 7.80 | 1413.88 | 6.59 | 277.57 | 9.16 | 1645.18 | 6.76 |
| 14. | Uttar Pradesh | 5.84 | 2.04 | 358.54 | 12.56 | 446.70 | 16.27 | 3406.81 | 15.87 | 452.54 | 14.93 | 3765.35 | 15.48 |
| 15. | West Bengal | 7.67 | 2.67 | 97.67 | 3.42 | 100.18 | 3.65 | 781.97 | 3.64 | 107.85 | 3.56 | 879.64 | 3.62 |
| Total | | 262.60 | 91.59 | 2728.70 | 95.57 | 2701.48 | 98.42 | 21122.30 | 98.39 | 2963.78 | 97.67 | 23851.00 | 98.06 |
| Total:All India | | 286.72 | 100.00 | 2855.12 | 100.00 | 2744.90 | 100.00 | 21467.98 | 100.00 | 3031.62 | 100.00 | 24323.10 | 100.00 |

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Source : 1. NABARD - Annual Report (1993-94)
2. NCDC.

APPENDIX - 11.6

BANKING STATISTICS OF KERALA (1988-1994)

(Rs. crores)

| Ending March | State Bank Group | | | | Other National banks | | | | Gramin Banks | | | |
|-----------------|-------------------|-----------------------------|------------------|----------|----------------------|-----------------------------|------------------|----------|-------------------|-----------------------------|------------------|----------|
| | Total Deposits | of which NRE Deposits | Total Advance | CD Ratio | Total Deposits | of which NRE Deposits | Total Advance | CD Ratio | Total Deposits | of which NRE Deposits | Total Advance | CD Ratio |
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 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 | 2318.32 | 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 | 211.51 | Nil | 262.75 | 124.23 |
| 1994 (Sept.) | 5685.17 | 2570.98 | 2563.65 | 45.09 | 6098.35 | 7707.15 | 2160.28 | 35.42 | 223.18 | Nil | 283.71 | 127.12 |

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(Appendix 11.6 continued)

| Ending March | Total Public Sector Banks | | | Other Private banks | | | | Grand Total | | | | |
|-----------------|---------------------------|-----------------------|---------------|---------------------|----------------|-----------------------|---------------|-------------|----------------|-----------------------|---------------|----------|
| | Total Deposits | of which NRE Deposits | Total Advance | CD Ratio | Total Deposits | of which NRE Deposits | Total Advance | CD Ratio | Total Deposits | of which NRE Deposits | Total Advance | CD Ratio |
| 1. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. |
| 1988 | 3751.35 | 1158.48 | 2436.73 | 64.96 | 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 | 1632.64 | 3326.24 | 63.81 | 1407.58 | 286.09 | 791.92 | 56.62 | 6620.08 | 2012.21 | 4118.16 | 62.20 |
| 1991 | 6169.85 | 1947.06 | 3742.92 | 60.66 | 1687.81 | 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 | 11276.90 | 4788.00 | 4793.76 | 42.51 | 3664.17 | 1226.63 | 1647.79 | 44.97 | 14941.06 | 6014.63 | 6441.54 | 43.11 |
| 1994 (Sept.) | 12006.70 | 5278.13 | 5007.64 | 41.71 | 3983.61 | 1271.56 | 1664.77 | 41.79 | 15990.31 | 6549.69 | 6672.41 | 41.73 |

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Source: Banking statistics of Kerala - SLBC

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