

KERALA 1967

economic review

CHAPTER I

GENERAL REVIEW

The year 1967 was, in many respects, an year of general crisis in the economic and social life of the Nation. The crisis in planning culminating in the postponement of the Fourth Five Year Plan till April, 1969, and the persisting uncertainty about resources position, both in terms of domestic and foreign resources, marked the beginning of an era of serious re-thinking on basic economic and social policies pursued at the national level. The increasing dependence of India on foreign countries for economic aid and the country's movement away from the cherished goals of self-reliance underlined the gloomy outlook of the economy in 1967.

- 1.2 In their analysis of the "Economic Trends, 1967-68" the Planning Commission have admitted the fact that atleast certain trends in the Indian economy "should arouse deep concern". In this chapter an attempt is made to analyse the major trends in the Indian economy and their implications to Kerala's economic growth. The developments in Kerala in 1967 in particular sectors such as agriculture, industry, power, transport, export-import trade and social services are reviewed against this over-all background.
- 1.3 The last few years have witnessed the continuation of serious difficulties in respect of internal as well as external balances of the Indian economy. The shortfall in income both in 1965-66 and 1966-67 dominated the pattern of rising prices and acute stringency. The aggregate production of real goods and services in India declined in 1965-66 compared to the previous year. The national income which in 1964-65 stood at Rs. 16,219 crores (at 1960-61 prices) declined to the low level of Rs. 15,441 crores in 1965-66. Though national income at 1960-61 prices increased slightly in 1966-67, the level of availability of real goods and services in 1966-67 was still lower than that in 1964-65.

National Income During 1960-61 to 1966-67

	National i	income	Percapita	income	
YEAR	EAR At current prices At		At current prices	At constant prices (1960-61)	
(1)	(2)	(3)	(4)	(5)	
1960-61	13453	13453	310.0	310.0	
1961-62	14315	14037	322.3	316.0	
1962-63	15179	14329	332.9	314.2	
1963-64	17563	15101	-376.1	323.4	
1964-65	20424	16219	427.1	339.2	
1965-66	21064	15441	430.1	315.3	
1966-67	24157	15706	481.5	313.1	

1.4 India's national income at constant price rose by 14% only during the Third Five Year Plan period as against a target of 30% increase. There was substantial failure in agricultural production during 1965-66 because of structural deficiencies in the agrarian structure and the severe drought which created new problems internally as well as for the country's external trade and payments. The increase in industrial production during the Third Plan period was of the order of 44% as against a target of over 55%. Thus, in the major sectors of the economy, there was a definite divergence between Plan projections and Plan performance. The over-all impact of this divergence between objectives and performance is reflected in the rates of growth of national income and percapita income as can be seen from the following table:—

Percentage Increase in National Income and Percapita Income During the Plan Period

	National	Income	Per capita incomr		
	At 1948-49 Prices	At 1960-61 prices	At 1948-49 peices	At 1960-61 prices	
First Plan Period	+18.40	+18.48	+8.20	+8.73	
Second Plan Period	+21.50	+21.17	+9.50	+9.03	
Third Plan Period	+13.80	+12.66	+1.50	0.30	

The decline in the rate of growth of national income and percapital income in India which began in the Third Five Year Plan period should be considered as a serious development in the Indian Economy and a reflection of the basic weaknesses of the Indian economic system.

1.5 During 1965-66 the output in agriculture declined by about 17% as compared to 1964-65. As against 72 million tonnes of

foodgrains production in 1965-66, the output of foodgrains during 1966-67 was 76 million tonnes. The quantity was still below the 89 million tonnes harvested in 1964-65. During the current year, 1967-68, according to the estimates of the Government of India, the level of agricultural production is expected to be substantially higher than even the record production of 1964-65. The production of foodgrains is estimated to be about 95 million tonnes.

- 1.6 The estimated higher agricultural production during the current year 1967-68, which is based on the assumption of normal weather during the rest of the agricultural year, is expected to play a very crucial role, according to the Government of India and the Planning Commission, in "stabilising" the economy. The Planning Commission notes that "for the time being constraint on overall growth imposed by the set-back in agriculture over the past two years may be loosen".
- 1.7 It will be wrong, however, to give too much of emphasis on the role which a "bumper crop" of 95 million tonnes is expected to play in "loosening" the "constraint on over-all growth" of the economy. In the absence of a rational Food Policy, particularly in respect of procurement and distribution, and in view of the reluctance of the Central Government to take the responsibility for providing a continuous flow of foodgrains from the surplus States to the deficit States, even a bumper crop of 100 million tonnes will not solve the basic food problem in India, particularly the problems faced by the people in the deficit States and even the vulnerable sections in the surplus States.

Industrial Sector

1.8 Just as the crisis in Indian agriculture became pronounced during the Third Plan period, the crisis in the industrial sector in India also became acute during the Third Plan. The rate of industrial production which was rising till 1963 started declining from 1963-64 onwards as can be seen from the following table: (An industry-wise break-up of the variations in industrial output during 1966 as compared to the earlier year 1965, is given in Appendix 1.1.)

Index Numbers of Industrial duction

(Base 1956-100)				
YEAR	General Index (unadjusted) Annual average	r reentage variation over the previous year		
(1)	(2)	(3)		
1961 1962 1963 1964 1965 1966	141.0 152.6 165.8 177.0 186.9 191.6	+8.2 +8.7 +6.8 +5.6 +2.5		

Source:—Reserve Bank of India, Report on Currency and Finance, 1966-67.

- 1.9 During the first four months, January—April, 1967, industrial output again suffered a set-back; the increase in output being only 0.6% over the level in the corresponding period in 1966. Inspite of liberalisation of imports and the price advantage given to many industries through devaluation and export assistance and incentives, industrial production has not picked up to any noticeable extent. On the other hand, the reduction in developmental outlays in the public sector, arising from the resources crisis at the level of the Government of India, has contributed to the creation of the curious situation of business recession in the midst of an inflationary situation.
- 1.10 Probably the most distrubing feature of the Inidan economic situation is the continued inflationary pressure in the economy, resulting in declining real income of large sections of the people and consequent reduction in their economic welfare. The price index for food articles went up by 14% in 1965-66 and by 41.5% in 1966-67 over that of 1964-65. The overall increase in price index during the above two years has been 15.2% and 34.2% respectively. In other words, in order to maintain the consumption level of food articles in real terms at about the same level of 1964-65 it was necessary to spend 41.5% more in money terms in 1966-67. (For the Index Numbers of wholesale Prices and Working Class Consumer Prices Index, see Appendix 1.2).
- 1.11 The crisis in agriculture and industry and the continued imbalances in foreign trade, coupled with inflationary pressures at home cannot but have serious implications to resources mobilisation. Domestic savings cannot show any significant increase under the economic conditions prevailing in the country today. In their attempt to solve the domestic resources crisis, the Government of India have been placing increasing reliance on foreign aid and on collaboration with private monopoly capital. (For details see Appendix 1.3, 1.4 and 1.5). However, the policy of increasing reliance on foreign aid has already created further and more complicated problems relating to repayment and debt servicing, in addition to the more serious threat it poses to India's economic and political independence and self-reliance.
- 1.12 The above analysis indicates that the basic cause of the present crisis in the Indian economy is the fundamental weakness in the very structure of the economy; and the attempt to push up investment expenditure according to pulls and pushes from those classes and groups which own the major assets or means of production has only resulted in creating further imbalances in the economy. The attempt to build up a capitalist economy on the slender base of a disorganised and out-moded fuedal agrarian economy has meant the perpetuation of inter-sectoral imbalances of a sort unusual in many other developing countries.

- 1.13 The crisis that prevails in the Indian economy today cannot be considered in isolation from the general crisis in which the World capitalist system finds itself. The increasing gap in the levels of income between the developed and developing countries, the structural dis-equilibrium in the international system of commodity exchange and payments, the instability of primary products, particularly raw-materials in the World market, the continuously adverse terms of the trade of the less developed nations of Asia, Africa and Latin America, the series of devaluations of the currencies of many countries in tune with the depreciation in the value of Pound Sterling and the serious threat to the very stability of the Dollar, are all significant evidences of the deep crisis of the World capitalist system.
- 1.14 To the extent to which India is linked up with the international system through trade, aid and private foreign investments it is but natural that the over-powering events that take place in the World economy would affect the Indian economy in a significant manner.
- 1.15 In a similar way, the crisis in the Indian economy adversely affects Kerala. The crisis in planning and the crisis in resources position is directly transmitted to the economy of Kerala. This is particularly true because all the major economic policies, fiscal policy, monetary policy, price policy, etc., and the predominant share of developmental outlay are all initiated and controlled at the all India level and they affect all the States of the Indian Union. The existing centre—State economic and financial arrangements only aggravate the imbalances in the powers and resources position as between the Centre and the States.

KERALA'S ECONOMY, 1967

State Income:

1.16 Kerala continued to be one of the less developed States in India in terms of per-capita income and the level of industrial development. Compared to the all—India income per-capita of Rs. 348 in 1964-65 (at 1960-61 prices) per-capita income in Kerala was only Rs. 290.68, that is lower by Rs. 58.32. The gap between the all-India and Kerala figures for income per-capita actually widened in 1964-65 compared to the previous year. Another important development has been the decline in the share of Agriculture in the State income (at constant prices) from 54.5% in 1950-51 to 49.6% in 1964-65. The share of Industries has also gone down from 16.2% to 14.2% during the same period. In other words, the relative share of the remaining sector, that is, Services or what is called the "tertiary Sector" increased.

Agriculture

- 1.17 The agricultural sector of the State registered overall progress during 1966-67. The net area sown increased by 26 thousand hectares (1.3%) compared to the previous year. The area sown more than once witnessed a remarkable expansion by 44 thousand hectares, the percentage increase over the year being as high as 9%. The area under cultivation went up significantly in respect of most of the major crops. The only major crops which suffered a fall in area were rice, sugarcane and bananas. The fall in the case of rice was nominal, being only 0.4%.
- 1.18 There was appreciable increase in production in the case of eight out of the ten principal crops in the State. The production of rice went up by 9%, coconut by 4%, arecanut by 14%, tapioca by 10% and cashewnut by 4%. The plantation crops also showed a general rise in production during the year. The two major crops which witnessed a fall in production were pepper and bananas. The production of pepper declined by about 5% and that of bananas by 4%.
- 1.19 The food situation in 1966-67 was, however, extremely difficult in spite of an increase in rice production in the State. The ration system was subjected to stresses and strains owing to show falls in supplies from the Centre. The average monthly allotment of rice from the Centre to the State dropped from 56,994 tonne in the first half of 1967 to 33,208 tonnes in the second half. The compelled the State Government to scale down the rice ration from 6 oz. to 3 oz. per adult per day from the last week of May 196 which led to an unprecedented rise in the open market price. I add to all these, the Central Government made two major upware visions in the ex-depot prices of foodgrains. The two revision together would have resulted in a 39% rise in the price of rational rice, had the increases been passed on to the consumers. In ord to avoid this, the State Government have had to bear a heavy finance burden running into several crores rupees.
- 1.20 The partial decontrol of sugar in November 1967 was anothed development which aggravated the hardship of the consumers.
- 1.21 The quantity of rice available for consumption in the Stafter making allowance for seed was only 9.76 lakh tonnes 1966-67 as against a requirement of 24.60 lakh tonnes. Thus deficit at present is of the order of 60%. This points to the that the food problem in Kerala will continue to be difficult until the Centre comes to the aid of the State in a large way.
- 1.22 The forest is a source of substantial revenue to the State net revenue from forests has been steadily increasing in past. This trend continued during 1966-67 also, the increase in net revenue for the year being 14%.

Plantations:

- 1.23 The performance of the plantation industry was remarkably good during 1966-67, production reaching almost record heights. This favourable turn is attributed mainly to increase in productivity. 1.24 Area and production of natural rubber increased considerably. From 165 thousand hectares in 1965-66, the area rose to 171 thousand hectares in 1966-67. Tappable area increased by half a percent and average yield per hectare of tappable area rose from 448 to 483 Kg. The rise in productivity of rubber was nearly 8% during the year. Production of rubber reached an all time record of 54818 tonnes in the year 1966-67 compared with only 50530 tonnes in the previous year.
- 1.25 The total consumption of all kinds of rubber in the country has also been increasing steadily in the past. Natural rubber consumption also increased almost proportionately from 63765 tonnes in 1965-66 to 68685 tonnes in 1966-67.
- 1.26 Based on the recommendations of the Tariff Commission, the Government of India have recently fixed the 'fair price' of natural rubber at Rs. 415 per quintal. The rubber growers were however, forced to sell their produce at Rs. 310 to Rs. 350 per quintal. The reason for this was the heavy accummulation of imported stocks by the tyre manufacturers. The glut in the Indian rubber market coincides with a crash in the world price of natural rubber which fell to such a low level as Rs. 280.50 per quintal.
- 1.27 Production of tea rose by 2.6% during the year, though area declined by 0.8 per cent. This increase in production was achieved as a result of increase in average yield per hectare which rose to 1128 Kg. per hectare in 1966 compared to 1091 Kg. in the previous year. The average prices of leaf tea and dust tea sold at Cochin auctions were Rs. 4.80 and Rs. 4.51 per Kg. respectively. The prices in 1965 were slightly higher. Since the beginning of 1967, however, Cochin tea market has been very buoyant. The temporary dislocation of supplies from Ceylon and the imbalance in supply and demand amount for this favourable turn.
- 1 28 There was a steadily rising trend in the past in the production of Coffee in Kerala. From 9.88 thousand tonnes in 1965-66, the output went upto 10.51 thousand tonnes in 1966-67, the increase over the previous year being 6.4 per cent. Area under coffee also increased considerably.

Fishery and Animal Husbandry:

1.29 Production of fish increased from 2.22 lakh tonnes valued at Rs. 5.9 crores in 1965-66 to 2.35 lakh tonnes valued at Rs. 7.8 crores in 1966-67. While total fish production increased by 5.9 per cent during the year, marine fish landings increased by 5.5%.

Considerable progress was made during the year in the construction of machanised boats. In 1966-67, 216 mechanised boats were constructed—89 in the public sector and the rest in the private sector. Compared to this the total number during the previous year was only 77. Construction of a few new ice—plants and storage plants is also underway.

- 1.30 One remarkable feature in the development of fisheries in Kerala has been the formation of the Kerala Fisheries Corporation during the year. All the boat-building yards, ice-factories and refrigeration plants in the State sector are brought under the Corporation to facilitate a co-ordinated approach to fish production and export. During the first year of its existence the corporation exported 407 tonnes of frozen marine products valued at Rs. 42.84 crores. The Indo-Norvegian Project has been rendering valuable service to the development of fisheries in Kerala. During 1867, the Project charged a new fishing ground of approximately 1000 Sq. miles between 150 fathoms and 200 fathoms off the Quilon coast. This has opened up great possibilities.
- 1.31 The per capita availability of milk in Kerala is placed around 2 oz. per day as against 5 oz. at the all India level. The average annual yield of milk per cow in Kerala is about 420 Kg. only compared with 780 Kg. in Punjab and 710 Kg. in Andhra Pradesh.
- 1.32 During the year under review, four pig development blocks were newly started. Also preliminary work for the establishment of a cattle feed manufacturing plant at Palghat and a poultry development plant has been taken up. The Indo-Swise project at Madupetty is planning to start a pilot project in Peermade area for the development of animal husbandry by supplying good cattle to the settlers of the area, so that animal husbandry along with farming may be developed along business lines.

Industry and Mining:

- 1.33 The number of factories in Kerala rose from 2918 in 1966 to 2983 in 1967 and factory employment increased from 1.95 lakes to 2.01 lakes. It may be mentioned that employment in factory units forms only 17.0% of the total employment in the Industries Sector. The factories of Kerala account for only 4.1% of the total factory employment in India as against 20.4% in West Bengal and 20 1% in Maharashtra.
- 1.34 The average daily wage rates of workers earning less than Rs. 400 per month was Rs. 3.54 in Kerala, as against Rs. 6.13 in India as a whole. This low wage rate in Kerala is indicative of the existence of a large number of units of traditional industries which employ very low levels of technology.

- 1.35 During 1966-67 only 1 public limited company and 19 private limited companies were newly registered in the State. 14 companies were struck off, while 26 companies went under liquidation. There was a reduction of nearly 18% in the number of public joint stock companies over the period 1961-66 and in 1967, there was a further decline of 2%. The number of private limited companies also declined by 1.5% in 1967. However paid up capital both in the private and public limited concerns registered an increase.
- 1.36 The traditional industries like Coir, Cashew and Handlooms occupy a very important place in the industrial set up of the State. Coir industry employs nearly 4 to 5 lakhs of workers. About 92% of the production of varn is done in the co-operative sector. There are at present 543 coir service co-operatives in which Government have made an investment of Rs. 272 lakhs as share capital. Of late, this industry is facing difficulties in the marketing of its products abroad in view of competing products. A large number of factories have been closed down rendering the under-paid workers unemployed. The cashew industry is also moving towards a crisis in view of the fact that the East African countries from where this industry imports nearly 2|3rd of its requirements of raw nuts are now progressing fast with mechanised methods of processing cashew. handloom industry is also in the grip of a general slump. In view of the very large number of workers employed in these traditional industries, immediate measures are called for to prevent any further deterioration in the situation.
- 1)37 In the field of minerals recent geological investigations have shown that fine varieties of clay and magnetite ore exist in different parts of the State. A detailed survey is proposed in 1968. The occurrence of bauxite ore is also reported. This improved position in respect of mineral deposits, perhaps will go a long way in opening up new possibilities in the field.

Power:

- 1.38 The State's position in regard to the generation of power improved considerably during 1967-68. Till recently, power-cuts have been a regular feature every year hindering the full utilisation of even the present industrial capacity. Electricity purchased from the neighbouring States also decreased from 116 milion units in 1965 to 78 million units in 1966-67.
- 1.39 The total installed capacity of the power system in the State as on 1-2-1968 was only 528.5 MW. Three units of the Sabarigiri Project with an installed capacity of 150 MW have been commissioned during 1967-68. The second generator unit of Sholayar with a capacity of 18 MW has been commissioned in January 1968. Civil works relating to Kuttiadi project are progressing fast.
- 1.40 Altogether 1083.11 million KWh of electricity was generated in 1966-67 as against 841.94 KWh in 1965.66. Under transmission 8640

schemes, the lines from Kozhikode to Cannanore, Poringalkuthu to Alwaye, Kundara to Quilon etc., are expected to be completed before the close of the financial year. Distribution and rural electrification works have also been stepped up in view of the need for increasing agricultural production through energisation of pumps.

Transport:

- 1.41 In the field of road transport, not much data are available regarding the private sector. In the public sector, the Kerala State Road Transport Corporation undertook considerable activities. During 1966-67, the programme of nationalisation of the two important routes viz., Ernakulam-Kottayam (via Vaikom-Erattupettah) and Kayamkulam-Punalur was implemented. There was a net addition of 100 vehicles to the operating fleet of the Corporation consisting of 85 buses, 4 lorries and 11 vehicles of other types. number of schedules and the effective kilometers of operation also increased considerably. The gross revenue receipt of the Corporation in 1966-67 was Rs. 751.66 lakhs and the gross expenditure Rs. 724.54 lakhs, yielding a surplus of 24.12 lakhs. The Corporation introduced Express services to the neighbouring States Madras and Mysore also. While the southern parts benefit considerably from the activities of the Corporation, the northern parts even now feel the absence of an efficient passenger transport system. In the field of inland water transport also, the corporation made significant contributions.
- 1.42 The ports in Kerala are lacking even the minimum amenities required. The State Government have entered into an agreement with Indopol Company for the preparation of a feasibility report about the development of minor ports in the State. The work of the company is in progress. As regards fishing harbours considerable progress was made during the year in the development of the harbours at Vizhinjom and Mopla Bay. Some work was also done at Baliapatam, Baypore, Azhikode and Ponnani. This may go a long way in meeting the urgent demands of the Fishery industry.

Export-Import Trade:

- 1.43 Significant increase in the quantity of exports was observed only in the case of cashew kernels, marine products and coffee. In most of the other cases, there was actually a decline in the quantity exported. But the value of exports in 1966-67 was Rs. 137 crores as against Rs. 90 crores during the previous year, the increase being nealry 52 percent.
- 1.44 Cashew kernels continued to contribute the largest share to the State's foreign exchange earning. During the year 1966-67 cashew kerne's fetched Rs. 43.52 crores as against Rs. 26.02 crores in the previous year. During the same period the quantity exported registered only a marginal increase of 838 tonnes over the previous

- year. Exports of marine products increased to 13099 tonnes valued at Rs. 15.19 crores compared with the previous year's 10357 tonnes worth Rs. 7.36 crores. Nearly 13400 tonnes of coffee were exported compared with only 9679 tonnes in the previous year.
- 1.45 The quantity exported declined in the case of the other commodities. Exports of Pepper declined from 24477 tonnes to 20020 tonnes, that of tea from 45254 tonnes to 38420 tonnes, that of cashew shell liquid from 12250 tonnes to 9446 tonnes and that of Coir marginably from 63488 tonnes to 62012 tonnes. But the value of exports showed increases in all the cases, due to the fall in the value of the Rupee.
- 1.46 Devaluation of the Pound Sterling, followed by a chain of devaluations by other countries including India's competitor Ceylon, created added problems for Kerala's export sector. Though the long-term effect of these events cannot be determined, it has been reported that in the case of the traditional products such as Cashew and Coir, Kerala's exports have been adversely affected as a result of short term dislocation in trade. The future prospects for some of our important foreign exchange earners are rather bleak. Cashew industry is heavily dependent on African import of raw nuts and the emergence of mechanised processing units in African countiries is increasingly becoming a threat to our Cashew industry. Imediate large scale efforts to achieve substantial increase in internal production of raw cashew nuts are called for if the industry is to be saved. The comparatively poor finish of our coir products is a positive handicap to the Coir industry in the field of exports. Corrective measures are called for in this case also.

Education:

- 1.47 Kerala leads the States in the Indian Union in the matter of literacy (46.8%). Per-capita expenditure on education is the highest in Kerala compared to the other States. The number of schools is increasing every year owing to the increasing demand for more and more schools. The shift system has been introduced in a large number of lower primary schools especially in the Travancore-Cochin area of the State. The introduction of shift system has naturally affected the quality of education as well. The private sector has a major role to play in the State's educational sector. Of the 10691 schools in the State in 1967-68, 6656 are under private management.
- 1.48 The problems of wastages in general education deserve attention. It has ben estimated that the extent of wastage in the lower primary stage in 1965-66 was of the order of 21% and in the upper primary stage 25%. The wastage in the secondary stage is still higher at 37%.
- 1.49 There were 106 arts and science Colleges during 1966-67. The enrolment in these institutions rose from 1.05 lakhs in 1965-66 to

1.13 lakhs in 1966-67. There were six Engineering Colleges with an intake capacity of 1160, four Medical Colleges with an intake capacity of 545 and one Dental College with an intake capacity of 30. There were also 19 teachers' Training Colleges where 993 boys and 1081 girls were enrolled.

Health:

1.50 The per-capita Government expenditure on health services is highest in Kerala compared to other States. In 1966-67 it was Rs. 5.28. There were 503 institutions coming under the modern system of medicine with a bed strength of 19950. The number of medical and public health institutions in 1957-58 was 369 and the number of beds 11959. The number of beds available per lakh of population during 1966-67 was 102 and the norm suggested by the Mudaliar Committee (one bed per 1000 population) has been surpassed. There were also 40 Ayurvedic hospitals and 218 Dispensaries in 1966-67. The family planning programme was introduced in 1955. By 1966-67 there were 1446 family planning centres in the State.

Other Social Services:

1.51 The major activities of the Government for the welfare of backward classes are educational concessions, housing, water supply and health services. During the year 1966-67 stipends were given to 301139 students in prematic classes, 1329 in vocational classes, 30442 in post-matric classes and 4365 in technical and professional colleges. 29 Welfare Hostels, 6 Cosmopolitan hostels and 18 subsidised hostel were run during the year.

Employment Situation:

- 1.52 Current information on the total quantum of unemployment in the State is not available. The available data do not indicate any improvement in the situation. In fact, some of the recent studies have shown that unemployment has slowly affected engineers also. Added to this, is the problem of chronic underemployment among the rural working force.
- 1.53 A sample survey on employment and unemployment conducted in Kerala in 1965 revealed that there were 5.5 lakhs of unemployed persons in the State of whom nearly 1.4 lakhs were educated. It was also found that out of the 54.7 lakhs of employed persons nearly 30 percent worked less than 28 hours during the week. This gives an idea about the magnitude of the problem of underemployment. During the two years which elapsed since the conduct of the above survey, there does not seem to have been any improvement in the situation.
- 1.54 The average number of registrations with the employment exchange increased to 1.55 lakhs in 1967 compared w

- 1.37 lakhs in 1966. The number of placings declined from 1690 in 1966 to 15617 in 1967. The index of employment (base: 31-3-196—100) rose to 100.8 as on 30-9-1966, but declined since then unt it reached 100.0 again on 30-9-1967. The indices for the publi sector have steadily increased, but those for the private secto generally remained below 100. This clearly shows that not much headway was made during the year in respect of generation c employement.
- 1.55 Preliminary studies on Medical and Engineering personne indicate that at the present rate of out-turn of educational institutions unemployment, especially among engineers is likely to assum very serious proportions. Even in the case of doctors, the desir able norms recommended by the Mudaliar Committee will b reached long before 1981.

Prices:

- 1.56 The year 1967 witnessed a further deterioration of the pric situation in the State. Prices of almost all food articles and othe basic consumer goods have moved up resulting in a further increas in the cost of living index by 56 points for the State. During th year the wholesale price index of agricultural commodities for the State registered an increase of 23 points.
- 1.57 The experience of the past decade of planning in India has bee ore of rising prices. The general index of wholesale prices (A India—base '52-53—100) moved up from 107.2 in April 1957 t 214.9 in November 1967 which means a rise in the price level at a average annual rate of 10%. It is also noted that the five year of the Third Plan period witnessed on the whole, an increase o 32% in the wholesale price index for all commodities. A large por portion of this price rise was caused by the increase in prices o food articles (41%).
- 1.58 A short fall in agricultural production together with a significant fall in the Central allotment of foodgrains to the State let to a weakening of the distributing system. While developments of the supply side were not favourable, there were also problems arising from rising consumption, extent of deficit financing as well a unplanned credit creation. The average working class consume price index number of the State which stood at 693 during 196 moved upto 729 during 1967. The increase was accounted formainly by the commodities included in the food group.

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Services still continue to play an increasing role in the economy. The share of the services sector in Kerala went up from 29.3% in 1950-51 to 36.2% in 1964-65.

2.9 The sector-wise average annual growth rates of income during the period 1951-52 to 1964-65 at constant prices are shown below. The figures are in percentages.

Sector-wise average annual growth rates (Percentages)

0.4	K	erala	;ndia		
Sector	Current prices	Constant Prices	Current prices	Gonstant prices	
I. Agriculture	9.7	2.7	9.9	2.9	
2. Mining and Indus	tries 5.4	2.4	7.9	3.9	
3. Services	8.3	4.9	6.5	5.1	
4. Net domestic prod	uct 8.6	3.4	8.4	3.9	

It is clear from the above that growth of real income in Kerala was much less than that in India. Particularly important is the fact that, while income from the Industrial sector in India rose at an annual rate of 3.9 percent, in Kerala the rate was only 2.4 percent. In the other sectors also Kerala lagged behind the rest of the country.

2.10 Differences in the level of per capita income between Kerala and all-India have increased in spite of all these years of planning. A comparison of the per capita income of Kerala with that of India is given below.

Differentials in Per-capita income

Year	At constant (At current prices				
	India Kerala		Income difference	India	Kerala	Income- difference
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1950-51	275.00	248 .95	26.05			•
1955-56	299.00	263.63	35.37	266.50	214.75	51.75
1960-61	326.00	275.96	50.04	326.00	275.96	50.04
1934- 65	348.00	290.68	58.32	427.30	369.58	57.7

During 1950-51 per-capita income in Kerala at 1960-61 price was Rs. 248.95 as against Rs. 275.00 for all-India. The difference in er-capita income works out to Rs. 26.05. This gap steadily widened each Plan period and reached a record figure of Rs. 58.32 in But during the same year the gap at current prices declined

to Rs. 57.72. This is solely due to the higher rate of price rise in Kerala which itself is another malady facing the State.

2.11 While the average annual rate of growth of per capita income for all-India maintained a slow but steady increase over each Plan period, Kerala's position is different. During the First Plan period per capita income increased at an annual rate of 1.2%. The Second Plan period witnessed a fall to 0.9% as against 1.8% for all India. During the Third Plan period the rate of growth of per capita income rose to 1.3% still maintaining a wider gap in the rate of growth between Kerala and India than that existed during the First Plan period. This situation calls for a larger investment effort and vigorous attempts at tampering the population explosion during the coming Plans to achieve a faster growth of income than has been possible hitherto.

CHAPTER III

AGRICULTURE AND FORESTRY

The agricultural economy of the State witnessed appreciable progress during 1966-67 compared to the previous year. The net area sown as well as the gross cultivated area increased. There was substantial increase in the production of all the major crops. The production of rice recorded a rise of about 9% and that of tapioca 10%. This could not make any mark on the worsening food situation of the State since the increase in the production of rice is insignificant compared to the magnitude of the deficit. The production in the allied fields like forests also was higher in 1966-67 than in 1965-66. The net revenue from forests increased by 17%.

Rainfall:

3.2 There was a steady decline in the annual rainfall in the State from 3734 mm. in 1960-61 to 2465 mm. in 1963-64. It recovered to the 1962-63 level in 1964-65 but dropped again to reach an all-time low of 2209 mm. in the next year. The position was considerably better in 1966-67, with a total precipitation of 2682 mm. The annual rainfall statistics for the years from 1960-61 to 1966-67 are given below:

	Year		Annual rainfall (m	<i>m</i>)
	1960-61		3734	
	1961-62	• •	3310	
	1962-63		• 3125	
	1963-64	••	2465	
•	1964-65		3146	
	1965-66		2209	•
	1966-67	• •	2682	

3.3 It is the seasonal distribution of rainfall rather than the total rainfall that determines the success or failure of crops in Kerala. A late south west monsoon may cause damage to the first crop (virippu) of paddy through drought at the early period of growth and flood at the manuring stage. A late north-east monsoon will affect the second crop more or less in the same manner. A late south-west monsoon and an abnormally low precipitation from the north-east monsoon characterised the year 1965-66. This had its deleterious effect, especially on the first paddy crop of 1966-67. The distribution of rainfall was more favourable in 1966-67 and it was

reflected in the second and third crops of the year. The monthwise distribution of rainfall for the years 1965-66 and 1966-67 is given below:

Months	Rainfall	(mm.)
WIONINS	1965-66	1966-67
(1)	(2)	(3)
	423	538
August	305	185
September	150	309
October	191	408
November	145	250
December	172	5 3
January	3	17
February	7	• •
March	69	26
April	163	70
May	86	274
June	495	552
Total	2209	2682

Land Utilisation:

3.4 The classification of the geographical area of the State according to land use for 1966-67 is presented below; the figures for the previous year are also provided for the sake of comparison.

	Class of Land		Area in tho	usand hectares
	Class of Land		1966-67	1965-66
	(1)		(2)	(3)
	Ttotal Geographical area	••	3859	3859
1.	Forests	• •	1056	1055 '
2.	Land put to non-agricultural uses	• •	235	228
3.	Barren and uncultivable land	• •	100	110
4.	Permanent pastures and otherr grazing land	• •	28	28
5.	Land under miscellaneous tree crops not in ded in net area sown	nclu 	182	220
6.	Cultivable waste		106	108
7.	Fallow land other than current fallow	• •	34	32
8.	Current fallow	• •	27	33
9.	Net area sown	• •	2091	2065
	Area sown more than once	• •	531	487
	Total Corpped area	• •	• 2622	2552

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9.	Net area sown	• •	2091	2065 [°]
	Area sown more than once	• •	531	487
	Total Corpped area		• 2622	2552

3 5 As is evident from the figures given above, the area of land under crops has increased by 26 thousand hectares during the year under review. A very encouraging feature of the trend in land use during he year is the marked increase in the area sown more than once to the extent of 44 thousand hectares. These together have led to an increase of 70 thousand hectares in the total cropped area. The increases in percentage terms are 1.3%, 9.0% and 2.7% in the case of net area sown, area sown more than once and gross cultivated area respectively. The increase of 26 thousand hectares in the net area sown has been made possible by the reduction in the area under miscellaneous tree crops, current fallow and cultivable waste.

Area under crops:

3.6 The area under all the major crops except rice, banana and sugarcane increased during 1966-67 compared to the previous year. The area under tapioca increased by about 15 thousand hectares, cashewnut by 3 thousand hectares, arecanut by 7 thousand hectares and coconut by 2 thousand hectares. The plantation crops viz., rubber, tea, coffee and cardamom also recorded sizeable increases in the area under cultivation. There was a slight fall of about 3 thousand hectares (less than 1%) in the acreage under rice. The area under-banana and other plantains and sugarcane fell by about 5% and 4% respectively.

3.7 The changes in the area under cultivation of the major crops during 1966-67 are worked out below:—

			Area (thousa	nd hectares)	
Стор (1)		1965-66	1966-67	Increase (+) or in 1966-67 1965-66	
		(2)	(3)	(4)	
Rice		802.3	799.4	() 2.9	(0.4)
Sugarcane		9.2	8.8	(-)0.4	(4.3)
Banana and other plantations	• •	47.8	45.6	()2.2	(4.6)
Гаріоса		229.7	244.6	(+)14.9	(6.5)
Coconut	••	586.3	609.6	(+)23.3	(4.0)
Arecanut	• •	64.5	71.2	(+)6.7	(10.4)
Cashewnut	• •	87.4	90.6	(+)3.2	(3.7)
Геа		39.5	39.8	(+)0.3	(0.8)
Coffee	••	23.6	25.2	(+)1.6	(6.8)
Rubber	• •	149.6	153.4	(+)3.8	(2.5)

Note.—The figures in brackets show percentages

3.8 The trend in the area under crops shown above does not reflect a planned approach to allocation of land to different crops.

The acreage has fallen in respect of crops for which an increase in area was most needed. The fall in the area under rice, apart from being unwelcome, would appear paradoxical in the context of severe food shortage and consequent rise in the price of rice. The fall in the cropped area which is just nominal in this case must be the result of total damage to the crop in certain areas due to drought or disease. Bananas and other plantains are an important item of subsidiary food already in short supply. The fall in the area under sugarcane is even more disquieting, for the sugar factories in the State are threatened with partial or complete closure owing to lack of raw material.

- 3.9 The increase in the area under crops like coconut, cashewnut and the plantation crops is quite welcome. At present there is good demand for arecanut and it continues to be the most lucrative crop of the State. This has prompted rapid expansion of the area under arecanut in recent years, but it is doubtful whether this will be in the interests of the State's economy in the long run. The habit of chewing pan is presumably on the decline and there is every reason to believe that, by the time the newly planted areas start to yield, the demand will fail to keep pace with the supply. In the case of tapioca an increase in production will help relieve the serious food situation, but this could easily be achieved by intensive cultivation rather than extensive cultivation.
- 3.10 Looking at the trend in the cropping pattern of the State, one cannot help noticing the stagnation that has beset some of the crops which for centuries occupied a unique position in the agricultural economy of the State. The most conspicuous among these is pepper, though there are others like ginger, turmeric, cardamom and lemongrass which have had almost the same fate. The reason for this predicament is not far to seek. The monopoly that Kerala enjoyed in these products is no longer there. The South East Asian countries and, lately, the virgin lands of Africa and South America have started producing them at a much lower cost than Kerala. Faced with tough competition from these countries, Kerala has to struggle hard even to keep head above water in the international market.
- 3.11 According to the classification of crops into food and non-food crops adopted at the all India level, Kerala has 64% of the total cultivated area under food crops. But most of these crops are not really food crops of the State, in the sense that they are not meant for consumption as food within the State. It is more appropriate to classify the crops of Kerala into food crops and cash crops based on whether they are meant mainly for direct consumption or sale. Crops like cashewnut, sugarcane and the spices are ultimately consumed as food but are produced in Kerala with an eye to the market.
- 3.12 If the above classification is adopted the only crops which could be classified as food crops in Kerala are rice, pulses, tapica,

and fruits and vegetables. All the other crops will have to be grouped under cash crops. According to this classification only about 50% of the area is devoted to food crops; the remaining 50% of the area is under cash crops. This is a unique feature of the agricultural economy of the State. Even if the above method of classification is extended to the other Indian States, the proportion of cultivated area devoted to food crops in those States will range from 65 to 70%.

Agricultural Production:

- 3.13 The most important crops of the State from the point of view of their share in the gross agricultural output are rice, coconut, tapioca, arecanut, pepper, tea, bananas and other plantains, cashewnut, rubber and coffee, roughly in that order. These ten crops together account for more than 80% of the total cropped area as well as the gross agricultural output of the State. The trend in the production of these crops will therefore be a fairly reliable index of the progress in agriculture.
- 3.14 During 1966-67 there was appreciable increase in production in the case of eight out of the ten crops mentioned above. In spite of the fact that the area under rice suffered a slight fall during the year, the production of rice showed an increase of about 87 thousand tonnes or nearly 9%. This increase against a fall in area is creditable but, while comparing the production with that of 1965-66, it is to be remembered that the production in 1965-66 was abnormally low. The production of rice in 1966-67 was only 10.84 lakh tonnes compared to the average of 11.14 lakh tonnes for the three years ending 1964-65. It may also be mentioned that the production in each of these three years was higher than that in 1966-67.
- 3.15 Coconut which is next in importance to rice registered a substantial increase in production viz., 132 million nuts or 4% during the year under review. With an output of 3425 million nuts, the production of coconut touched a new high during 1966-67. Among the other crops, arecanut, cashewnut, tapioca, rubber and coffee have been maintaining a steady increasing trend over the past several years. This trend contained during 1966-67 also. In the case of tea the trend in production has not been steady but, on the whole, the production level can be said to have been rising. The production of tea registered a remarkable increase of 12.7% during 1966-67 compared to 1965-66. The output in 1966-67 was also the highest ever reached.
- 3.16 As is evident from the foregoing analysis of production trends, eight out of the ten principal crops of the State present a bright picture of progress. However, the other two crops viz., pepper and bananas present a rather gloomy spectacle. Pepper is a crop whose fortunues are closely linked up with foreign markets. The severe competition Indian pepper has had to face from other sellers

in the international market has dampened its prospects. Pepper prices have been subjected to constant fluctuations and this has served as a serious disincentive to the producers. Consequently, pepper is exhibiting a steady falling trend both in production and productivity over the last several years while the area under the crop remains more or less static. The only salvation for this crop lies in revolutionising the cultivation practices with a view to achieving a substantial rise in productivity. This will bring down the cost of production and thus improve the competing power of Indian pepper in the international market.

3.17 The production of bananas and other plantains declined from 361 thousand tonnes in 1965-66 to 345 thousand tonnes in 1966-67. Unlike pepper, bananas and other plantains do not exhibit a steady falling trend either in production or in productivity over the years. Production is subject to fluctuations but the general level is showing moderate rise over a period of years. The lack of a steady trend in production is perhaps due to the fact that the cultivation of this crop is for the most part unorganised and unplanned. Only the large variety of bananas called 'Nendran' is cultivated in the true sense of the term. The other varieties mostly are just allowed to grow in house premises rather than cultivated. The untold damage done to the crop by the bunchy top disease is also responsible to a large extent for the poor progress in its production.

3.18 The trend in the production of the ten crops discussed above is presented in the following table:

	Crop	-	Production (thousand tonnes)						
			1960-61	61-62	62-63	63-64	64-65	65-66 ,	66-67
	(1)		(2) .	(3)	(4)	(5)	(6)	(7)	(8)
1.	Rice	<u> </u>	1068	1004	1093	1128	1121	997.	1084
2.	Coconu	t (million nuts)	3220	3247	3305	3262	3278	3293	3425
3.	Tapioca	*				2524	2763	3096	3410
4.	Arecanu	t (million nuts	s) 7737	8091	8312	8522	8945	9681	10683
5.	Pepper		27	27	24	22	22	22	21
6.	Tea		40	38	39	41	42	39	44
7.	Bananas plantains	and other	328	317	327	326	341	361	345
8.	Cashew	nut	85	86	92	92	96	98	102
9.	Rubber		23	25	29	34	40	47	50
10.	Coffee		7	8	8	9	10	10	11

^{*} The production figures for the years upto 1962-63 were conventional etsimates while those for later years have been worked out on the basis of crop cutting experiments. These two are, therefore, not comparable.

More important among the crops other than those discussed above are ginger, cardamom, turmeric, sesamum and groundnut. The production of ginger and turmeric declined slightly in 1966-67 compared to the previous year and that of cardamom remained at previous year's level. The production of sesamum increased slightly while that of groundnut registered a substantial fall.

Food situation:

- 3.19 The food situation in the State during 1967 was quite critical in spite of an increase in the internal production of rice in 1966-67. The rationing system itself was subjected to jerks and jolts and even threatened to break down. The State Government was compelled to scale down the rice ration from the prescribed rate of 6 oz. per adult per day to 3 oz. per adult per day. Even this reduced ration could not be maintained smoothly and suffered occasional interruptions. As a consequence of these, the open market price of rice shot up to unprecedented heights.
- 3.20 This was all due to the failure of the Centre to make adequate and timely supplies of rice to the State. The rice supplies from the Centre averaged only 45101 tonnes per month during 1967 as against the monthly requirement of 75000 tonnes for maintaining the rice ration at 6 oz. per adult per day. The Central allotment of rice to Kerala fell drastically in the latter half of 1967. The average monthly allotment dropped from 56994 tonnes in the first half of the year to 33208 tonnes in the second half. The statistics of imports of rice into Kerala for the years 1965 to 1967 are furnished below for comparison.

		Import of Rice	
1965		• •	8.88 lakh tonnes
1966			7.52
1967		• •	5.41
	January	• •	66195 tonnes
	February	* *	48563
	March		70853
	April	• •	43859
	May	••	47443
	June	• •	65049
	July	• •	28486
	August	• •	40555
	September	••	37 158
	October	• •	22763
	November	• •	30429
	December	••	39854
	Total		541207
	4.		

3.21 The State Government geared up the machinery for internal procurement of paddy and made an earnest effort for achieving the targets for procurement. The procurement price including bonus was also raised from Rs. 52 per quintal to Rs. 65 per quintal from the Virippu Crop of 1966. This yield divided. There was a substantial improvement in the quantum of procurement as is evident from the data given below:

Procurement of Padd	—Targets and	Achievements
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Year & Crop	Target (tonnes)	Achietement (tonnes)	Achievement as percentage of targe
(1)	(2)	(3)	(4)
1964-65 II & III Crops	77400	44643	57.6
1965-66 I Crop	46088	39896	86.5
II & III Crops	113000	43611	38.5
1966-67 I Crop	43717	36755	84.1
II & III Crops	79979	56 3 5 3	70.5
1967-68 I Crop	54719	58 373*	106.7

^{*} Includes voluntary sales of 1224.2 tonnes to Government.

- 3.22 Another unfortunate development in the food front was the two substantial increases, one from December 1966 and the other from January 1968, in the ex-depot prices of rationed food grains at the instance of the Central Government. As a result of these two revisions the ex-depot prices of both rice and wheat increased by 39%. The State Government, in their reluctance to cause hardship to the masses, desisted from passing on the price increases of coarse rice to the consumers. In order to meet the cost of the first price increase alone the State Government had to bear a heavy financial burden of about Rs. 6 crores per annum. The second price increase effected from January, 1—1968 has been more drastic than the first one. If the State Government is to continue to bear the cost of both these increases the resultant financial commitments will be too heavy for the State exchequer to bear.
- 3.23 The partial decontrol of sugar by Government of India in November 1967 and the consequent sky-rocketing of sugar prices caused severe hardship to the consumers.
- 3.24 The production of rice in the State in 1966-67 was only 10.84 lakh tonnes as against a requirement of 24.60 lakh tonnes for consumption at the rate of 400 gm. (14 oz. approximately) per adult per day for the population in 1967. Atleast 10% of the production will go as seed, wastage, etc. If this is deducted from the total output the quantity of rice available for consumption out of the production in 1966-67 would be only 9.76 lakh tonnes and the 3 | 640

- deficit would be 14.84 lakh tonnes. Against this deficit the quantity of rice imported into the State from all sources during 1967 was only 5.41 lakh tonnes. The actual quantities of rice and wheat distributed through the ration shops in 1967 were 6.13 lakh tonnes and 4.55 lakh tonnes respectively. The data on monthly off-take of rice and wheat are provided in Appendix.
- 3.25 The food deficit of the State is as wide as 60% now. The State Government is fully alive to the need for bringing down this deficit to a manageable margin. The Government is exploring all possibilities for stepping up food production, particularly the production of rice. Several schemes for augmenting food production are engaging the serious attention of the Government. It is proposed to construct permanent bunds for the Kayal lands of Kuttanad with financial aid from the Agricultural Re-finance Corporation. With the completion of the bund a second crop can be raised on these lands. A few schemes for reclaiming suitable kayal areas are already under way. It is also proposed to reclaim forest swamps and use them for paddy cultivation. An ambitions programme for reclaiming extensive wastelands in the Cannanore District has been launched. High priority is being given to irrigation and allied schemes.

Forests:

- 3.26 Forests occupy 10.56 lakh hectares (27.4%) of the total area in the State. Of this, Kottayam covers 24.0%, Quilon 20.4%, Kezhikode 18.3% and Trichur 12.5%. The areas lying under forest are classified into two according to the main species of composition, (i) Coniferous (solft wood) and (ii) non-coniferous (broad leaved). In Kerala, the entire area falls under non-coniferous category as against 94% under it at the all India level. The forest areas are also classified by their type of functions into merchantable and non-merchantable. Those which are within the economic explicitation are called merchantable area and those outside are called non-merchantable area. The merchantable area in Kerala forms 78.7% compared to 77.6% in India.
- 3.27 The reserve forests in the State cover as much as 80%. The rest is under protected and unclassed status, the unclassed alone forming 19%. The ownership of the forests is divided between Forest Department and private individuals. The former owns 81% of the total forest area in the State. Private forests come to 19% in Kerala as against only 2% at the all India level. Forests are national wealth and evidently the large slice of private forests in Kerala needs immediate take over by the State.
- 3.28 The total out turn of timber and firewood and other forest produce during the year under teview showed significant progress over the previous year. The round logs comprising of teak and

other logs maintained a steady increasing trend in production in the past. From 4.38 lakh cubic metres in 1965-66 the volume of round logs turned out went up to 5.04 lakh cubic metres, the percentage increase over the year being 15. The teak logs constituted 7.2% of the total round logs. The out turn of round poles which was the lowest in 1963-64 since the last six or seven years has been picking up fast. The production of firewood in 1966-67 was an all time record. It exceeded the 1965-66 level by 57.5%. The details are given in the Appendix.

- 3.29 The gross receipts from forest produce in 1966-67 amounted to Rs. 669.5 lakhs, giving an increase of Rs. 95.6 lakhs (16.7%) over the previous year. The receipts from the sale of timber accounted for Rs. 601.1 lakhs (89.8%) of the total. The net returns from forests during the year under review totalled to Rs. 665.6 lakhs, registering an increase of Rs. 95.2 lakhs (14.3%) over 1965-66. The data relating to revenue from forests are provided in the Appendix.
- 3.30 The planned projects under forests are aimed at increasing the extent of plantations of various forest species to cater to the growing demand of forest based industries, railways and for fuel, to consolidate and improve the existing natural forests and creation of plantations. During 1966-67, 2545 hectares have been planted with teak against a target of 2995 hectares. The extent of softwood planted was 1165 hectares.
- 3.31 Detailed tables regarding the various aspects of agriculture and forestry are given in Appendix 3.1 to 3.6.

CHAPTER IV

PLANTATIONS

The plantation industry in Kerala registered an all time record in production during 1966-67. The increase in productivity has been mainly responsible for this favourable turn. The production of natural rubber in the State went up by 7.5%, tea by 12.7% and Coffee by 6.3%. Kerala accounted for 92% of the natural rubber, 12% of the tea and 17% of the Coffee produced in the country.

Rubber:

- 4.2 The natural rubber industry in India, which is mainly a plantation industry of Kerala, registered significant progress both in area and production during the year 1966-67. From 165 thousand hectares in 1965-66, the area under rubber increased to 171 thousand hectores in 1966-67, the percentage increase in area being 3.6 over the year. Out of this, 94.40 thousand hectares (55%) were planted with high yielding planting materials as against 82.61 thousand hectares (50%) in the previous year. The number of units consisting af holdings and estates totalled 82.335 in 1966-67 compared to 76,140 in 1965-66. The small holdings increased by 6184 units with an area of 6139 hectares and the estates by 11 units covering an area of 408 hectares. The state-wise distribution of rubber holdings and estates is given in Appendix 4.1.
- 4.3 The total tappable area under rubber was 113.50 thousand hectares in 1966-67. This was 620 hectares (0.5%) higher than that in 1965-66, which stood at 112.88 thousand hectares. The average yield per hectare of tapple are increased from 448 Kg. in 1965-66 to 483 Kg. in 1966-67. The rise in productivity of rubber per hectare was nearly 8% during the year. Use of high yielding varieties, improved cultural practices and utilisation of the development schemes of the Rubber Board were mainly responsible for the increase in productivity (see Appendix 4.2).
- 4.4 The production of natural rubber reached an all time record of 54818 tonnes in the year under review as against 50530 tonnes in the previous year. The percentage increase in total production over the year was 8.5 as against 10.8 for the previous year.
- 4.5 The total consumption of all kinds of rubber in the country has also been increasing steadily in the past. From 95,092 tonnes in 1965-66, the consumption of all kinds of rubber increased to 103190 tonnes in 1966-67, of which the consumption of natural rubber was 68685 tonnes as against 63765 tonnes in the previous

- year Whereas the consumption of all kinds of rubber went up by 8.5%, the consumption of natural rubber increased by 7.7%. The share of domestic natural rubber production in the total internal consumption remained unchanged at the previous year's level of 53%. The details are furnished in Appendix 4.3.
- 4.6 There has been rapid expansion in the field of co-operative marketing of rubber. In 1962-63 there was only one co-operative society with a membership of 497. In 1966-67 there were 18 societies with a membership of 9108. The quantity of rubber marketed by the societies in 1966-67 was 3027 tonnes.
- 4.7 The natural rubber produced in the country forms 2% of the total world output of 2436 lakh tonnes in 1966. Malayesia accounted for 41%, Indonesia 29%, Thailand 9% and Ceylon 5%. The world consumption of synthetic rubber exceeds the natural rubber by 25%. However, the synthetic rubber does not constitute a threat to the natural rubber industry.
- 4.8 Based on the recommendations of the Tariff Commission, Government of India have recently fixed the "fair price" of natural rubber at Rs. 415 per quintal. However, the rubber growers were forced to part with their rubber for prices as low as Rs. 310 to Rs. 350. The reason for the drastic price fall was the heavy accumulation of stocks by tyre manufacturers, the principal consumers of raw rubber in India. They had built up adequate stocks when there was liberal import and were hesitant to go in for large scale purchases unless there was a marked price advantage.
- 4.9 The glut in the Indian rubber market coincides with a crash in the world price of natural rubber which falls as low as Rs. 280.50 per quintal the lowest in the last 19 years. This has been caused by the liberal releases of synthetic rubber from the U.S. stock pile. Until this is controlled the chances of a price recovery appear remote.
- 4.10 An association of the major producers of natural rubber including Malayasia, Ceylon, and Indonesia has been formed to consider joint action among themselves to maintain the price of natural rubber at equitable and remunerative levels.

Tea:

4.11 The Tea industry in India which accounts for 32% of the world production of tea, had a record crop in 1967. The preliminary estimates for the year have placed the out put around 379.4 thousand tonnes. This is 4.6 thousand tonnes higher than the 1966 production and 13.0 thousand tonnes higher than the 1965 production of tea in India. It was North India which yielded a bumper crop of 288.4 thousand tonnes in 1967. South India suffered a fall in production to the extent of 4.5 thousand tonnes compared to 1966. For this region, 1966 was an exceptionally good year in the matter of tea production.

- 4.12 In 1966 Kerala accounted for 39615 hectares (11.5%) of the total area and 44687 tonnes (11.9%) of the total production of tea in the country. Whereas at the all India level both area and production rose by 1% and 2% respectively, in Kerala, the area declined by 0.8%, while the production rose by 2.6%—apparently the outcome of increased yield per hectare. The average yield of tea per hectare increased from 1091 Kg. in 1965 to 1128 Kg. in 1966. The productivity at the all India level, however, remained below this, i.e., 1086 Kg. per hectare in 1966 as against 1072 Kg. in 1965. In respect of average yield, Kerala maintained its third rank among the tea production states of India. Details of area under cultivation, total production and average yield of tea are given in Appendix 4.4.
- 4.13 The structure of the tea estates in Kerala (by size) is given in Appendix 4.5. The total number of estates increased from 2355 in 1964-65 to 2536 in 1965-66, the percentage increase being 7.7. Nearly 99% of this was accounted for by estates below 5 hectares in size. One large estate of 556 hectares was cleared off tea cultivation during the year. Amongst the various groups of estates productivity was the highest in size group 200—400 hectares as in the previous year. There is a direct relationship between the average yield per hectare and the size of the estate upto the 400 hectare level; and after that marginal productivity begins to decline. This leads to the conclusion that the most economic tea holdings are those between 200 and 400 hectares.
- 4.14 The average prices of leaf and dust teas sold at Cochin auctions were Rs. 4.80 and Rs. 4.51 respectively during 1966. The prices in 1965 stood at slightly higher levels, viz., at Rs. 4.85 and Rs. 4.53 per Kg. for leaf and dust teas respectively. Cochin tea market, however since the beginning of 1967 has been buoyant. The temporary dislocation of supplies from Ceylon and the imbalance in supply and demand amount for this favourable turn.

Coffee:

- 4.15 Coffee planting industry in India accounted for 1.6% of the World coffee output in 1966. The production in 1966 was 63.4 thousand tonnes registering a lead of nearly 3% over the previous year. However it was 9% below the 1964 production.
- 4.16 The trend in production has been a steady rise in Kerala in the past. From 9.88 thousand tonnes in 1965-66, the output went up to 10.51 thousand tonnes in 1966-67, the increase over the previous year being 6.4%.
- 4.17 The total area under Coffee in 1966-67 was 25152 hectares as against 23602 hectares in 1965-66. The major Coffee producing districts of Kerala are Kozhikode, Palghat, Cannanore and Kottayam. Of the total area under coffee, Kozhikode alone accounts for 65%.

CHAPTER V

FISHERIES AND ANIMAL HUSBANDRY

Fishery and animal husbandry are two sectors which hold great promise in the development of the rural economy of Kerala. While the fishing sector has already been given a new outlook for speedy modernisation, the animal husbandry sector is yet to revolutionise its channels of development.

Fishery:

- 5.2 The total fish production in the State in 1966-67 was 2.35 lakh tonnes valued at Rs. 7.8 crores as against 2.22 lakh tonnes valued at Rs. 5.9 crores in the previous year. The production of marine fish alone was 2.28 lakh tonnes compared to 2.16 lakh tonnes in the previous year. The total production increased by 5.9% over the year while the marine fish production alone by 5.5%. However, the marine fish landings of 1966-67 constituted only 63% of that in 1964-65.
- 5.3 Of the total marine fish landings, oil sardine constituted 96.9 thousand tonnes (42.6%) prawns, 26.1 thousand tonnes (11.5%), and mackerel 19.6 thousand tonnes (4.2%). The landings in 1965-66 comprised of oil sardine 121.7 thousand tonnes (56.4%), prawns 18.3 thousand tonnes (8.5%) and mackerel 3.2 thousand tonnes (1.5%). The details of marine fish landings are given in Appendix 5.1.
- 5.4 The average beach prices of all marine fish in 1966-67 worked out at Rs. 0.32 per Kg. as against Rs. 0.25 per Kg. in 1965-66, the percentage increase being 28. The price of oil sardine went up from 15 paise in 1965-66 to 18 paise in 1966-67, of prawns from 97 paise to 103 paise and of mackerel from 43 paise to 47 paise over the years
- 5.5 During 1966-67, a total of 216 mechanised boats were constructed of which 89 were in the public sector and the rest in the private sector. 31 boats were of 25' size and the rest of 30' and above. Compared to this, the total boats constructed in the previous year were only 77 of which those built by the public sector came to 52. By the end of March 1967 as many as 749 mechanised boats were constructed in the State under the public and private sectors together. The mechanised boats issued by the Government numbered 200 during the year as against 59 in the previous year. 153 fishermen were trained in the operation of mechanised boats at the fishermen training centres in Kerala in 1966-67.

- 5.6 The number of ice factories in the public sector during the year remained the same as in 1965-66. However, certain new ice plants are being erected at Kasargod, Cannanore, Thalayi, Quilandy, Ponnani, Azhikode, Willingdon Island, Alleppey and Attipra. Also a number of simple cold storage plants are under way in the interior regions to facilitate better marketing of fish and fish products.
- 5.7 53 new co-operative societies were added during the year, bringing up the total number of fishermen co-operatives in the State to 517 at the end of 1966-67. The total paid up share capital of the societies increased from Rs. 9.07 lakhs in 1965-66 to Rs. 10.95 lakhs in 1966-67, the increase being 21% over the year. The total assistance given by the State to the fishermen societies as share capital and long term loans amounted to Rs. 4.39 lakhs during the year, of which the long term amounted to Rs. 4.23 lakhs.
 - 5.8 One remarkable feature in the development of Kerala fisheries has been the formation of the Kerala Fisheries Corporation during the year. All the boat building yards, ice factories and refrigeration plants in the State sector are brought under the Corporation of facilitate a co-ordinated approach to fish poduction and export. The Corporation during the first year of its activity exported 407 tonnes of frozen marine products for Rs. 42.84 lakhs. The performance of the Corporation in the next few years on the production and export fronts will determine the pattern and dimensions to which the Corporation activities have to be expanded in the years ahead.
 - 5.9 The year 1966-67 witnessed substantial progress in the activities of the Indo-Norvegian Project. The Project had been mainly responsible for the development of mechanised fishing at Neendakara and Cochin. It is also developing a fishing harbour and fisheries station at Cannanore. The Project owns a small fleet of big trawlers which undertake experimental trawling in the deep sea waters of Kerala. One notable achivement of the Project in 1967 is the charting of a new fishing ground of approximately 1000 sq. miles between 150 fathoms and 200 fathoms off the Quilon Coast in Kerala. Fishing in several areas of this extensive bank has yielded catches even up to 800 kg. per hour. It is considered that a large vessel of 90ft. or more with facilities for processing and freezing on board with large storage capacity can work the grounds very profitably.

Animal Husbandry:

5.10 The per capita availability of milk in Kerala is placed around 2 oz. per day as against 5 oz. at the all India level. The number of milking cows and buffaloes according to the 1966 Livestock Census has been 4.83 lakhs and 0.67 lakhs respectively. This works out at the rate of 1 milking cattle and buffaloe for every 35 people in Kerala in 1966. The position five years ago, in the State was the same as against one for every 13 persons at the all India level.

- 5.11 'he annual yield of cows in milk in Kerala is about 420 Kg. per cov In Punjab, Uttar Pradesh, Bihar and Andhra Pradesh, it is 780 kg., 710 kg., 665 kg., and 515 kg., respectively. Of all countries, Israel has the highest yield per milking cow; it is 4902 kg. per annum. Next to it comes Japan with about 4350 kg., followed by Netherlands 4207 kg., Denmark 3946 kg., U. K. 3797 kg. U. S. A. 3665 kg. and U. S. S. R. 1600 kg. Apparently there is much to be done to improve the breed and yielding capacity of the cattle in the country as a whole and the State in particular. The 1966 Livestock Census does not give any data relating to the milk production and yield of cows in milk and hence no comparison in the improvement of yield over the past is possible.
- 5.12 In a rational approach to the reorganisation of animal husbandry activities and upgrading of livestock, what is generally felt as important is the adoption of a strong policy in the elimination of scrub bulls. This has to be taken up simultaneously with an extensive programme for artificial insemination. With regard to the first there has been remarkable progress between the years 1961 and 1966. The breeding bulls declined in number at an average rate of 7.7% per annum. The male cattle used both for breeding and working declined even at a faster rate of 10.0% per annum. The buffaloes used exclusively for breeding has fallen at the rate of 12.9% per annum. At the same time the breeding cows and she-buffaloes registered an increase of 2.4% and 1.0% respectively over the years.
- 5.13 In 1966-67 four pig development blocks were newly started, making the total number of pig development blocks seven. Also the spade work for the establishment of a cattle feed manufacturing plant at Palghat and a Poultry Dressing Plant has been taken up.
- 5.14 The Indo-Swiss Project started at Madupetty with Swiss Collaboration for the development of fodder production, cattle breeding and dairy economy has been doing very good work. The project is planning to start a pilot project in the Peermade area for supplying the settlers of the area with breeding cattle. The objective is to examine the extent to which animal husbandry would improve the economy of the settlers so that farmers in general can emulate animal husbandry along with farming as a business proposition.
- 5.15 The Palghat Milk Supply Scheme started under the Third Plan was commissioned and handed over to the Palghat Co-operative Milk Supply Union in 1966-67. With this, the total number of milk supply schemes in operation will be three, the other two being at Trivandrum and Calicut. The Ernakulam and Kottayam Milk Schemes are scheduled to be commissioned in the next year. Preliminary construction works for the Alleppey Scheme were taken up during th year under review.

5.16 The Sewage Farm at Valiathura, Trivandrum started in 1961-62 is a scheme for the development of fodder by utilising the cine sewage for irrigation. The total area under fodder cultivation in the farm in 1966-67 was 92 acres as against 42 acres in the previous year. The average yield of fodder produced during the year was 19.23 tonnes per acre as against 39.82 tonnes per acre in 1965-66. The decline in the yield is only due to the fact that the crop on 50 acres has been newly cultivated. The average sale price of fodder during the year was 3.3 paise per Kg. as against 2.9 paise in the previous year.

CHAPTER VI

INDUSTRY AND MINING

The number of factories in the State rose from 2918 in 1966 to 2983 in 1967 and the factory employment from 1.95 lakes to 2.01 lakes. Out of the total working force of 10.9 lakes persons in the industries sector as a whole, only about 17 per cent is engaged in factory units.

- 6.2 The factories of Kerala account for only 4.1 per cent of the total factory employment in India as against the State of West Bengal and Maharashtra which account for 20.4 per cent and 20.3 per cent respectively. For a State-wise distribution of factories see Appendix 6.1.
- 6.3 An analysis of the factory sector in Kerala during 1967 reveals that the State is dominated by food processing units like cashew, which employ nearly 53% of the factory workers. Cashew alone accounts for 92652 workers out of a total of 200684 factory workers. The industries in the State are thus mostly agro-based. Basic metal industries account for 1% of the factory workers. The table showing number and employment of factories in 1967 is provided in Appendix 6.2. An abstract of the table is given below:

Number and Employment of Factories in 1967

Sl. No.	Name of Industry		No. of factory	No. of employees
(1)	(2)		(3)	(4)
1	Food Articles		820	107415
2	Beedi and Cigars	••	66	2093
3	Textiles	••	253	16786
4	Coir	•	146	5930
5	Umbrella	• •	18	498
6	Timber		460	11942
7	Paper		220	7880
8	Rubber		132	3576
9	Manure		10	4188
10	Pharmaceuticals		21	781
11	Soap		7	1193
12	Match		66	2 773
13	Petroleum		9	1097.
14	Building materials	• •	227	14051
15	Glass and Pottery	• •	10	887
16	Metal Industry	• •	280	12 538
17	Repair engine, building and m Bicycle	nanufacture of	157	51 24
18	Others	. •	81	1929
	Total	•	2989	200684

- 6.4 The distribution of working factories in Kerala according to employment as on 31-12-1967 is brought out in Appendix 6.2. Out of the total of 2983 working factories at the end of 1967 as much as 85 factories employed less than 50 workers each. The proportion of factories in the size groups 1-49, 50-99, 100-499, 500-999 and 1000 and above was about 3%, 4%23%, 32% and 38% respectively. There were only 1129 factories in the State giving employment to 1000 and more workers. Even among them cashew factories with their age old techniques of production accounted for 238 in number.
- 6.5 The district-wise distribution of factories in Kerala as on 31-12-1968 indicates the uneven growth of industries as between the various districts or regions within the State.

District-wise Distribution of working Factories and Employment in 1967

Sl. No.	' District .	No.	of factories	No. of employees	Rank in employmen
(1)	(2)	•	(3)	(4)	(5)
i	Trivadrum		152	9929	7
2	Quilon		424	85743	1
3	Alleppey		298	13426	6
4	Kottayam		265	9417	8
5	Ernakulam	• •	371	25126	2
6	Trichur		505	17681	3
7	Palghat		261	7805	9
8	Kozhikode		347	17494 .	4
9	Cannanore		360	14063	5
	State Total		2983	200684	

- 6.6 Nearly 43% of the workers are employed in Quilon District. This is due to the concentration of cashew factories in and around Quilon. Nearly 87% of the total employees in Quilon are employed in Cashew factories. Ernakulam District is next to Quilon with regard to employment. Trichur stands third in factory employment. Palghat District ranks as the nineth in regard to factory employment. However the district-wise factory employment figures are in no way a correct indicator of industrial development. Even though Ernakulam District comes only as second in factory emplayment; there is a heavy concentration of many important industries employing advanced technological methods. The district-wise details of factories and employment are given in Appendix 6.3.
- 6.7 As most of the units especially traditional industries employ low technology, the productivity of the industrial units is very low. With the result, low wage rates prevail for the factory workers when compared to other parts of India. A comparative statement of

industrial wage rates in the different States for the year 1966-67 separately for workers earning less than Rs .400 is given in Appendix 6.5 which shows that the average daily earnings of the factory workers in Kerala is the lowest in India.

- 6.8 The per capita daily earnings in Kerala in 1965 is Rs. 3.54 as against Rs. 6.13 for all India. The traditional industries like Coir, Handloom and Cashew, employing a large percentage of working population account for the low per capita daily earnings.
- 6.9 The production figures of some of the important industrial products like Cement, Coffee, Salt, Plywood, Yarn, and Cloth are given below. Cloth and Coffee have registered a slight increase in 1965-66 over 1964-65. A noticeable fall is seen in the production of yarn and plywood.

Production Figures in Selected Industries

$Sl.\mathcal{N}$ o.	Name of produce	Unit	1964-65	1965-66	
(1)	(2)	(3)	(4)	(5)	
1	Manufacturing of hydro- ginated oil	Quintal	17249	17295	
2	Tea	100 Kg.	43612	43001	
3	Coffee	M.T.	10143	128 34	
4	Salt	Qtl.	10	16	
5	Yarn	100 Kg.	12003	11160	
6	Cloth	1000 Metre	19118	19930	
7	Plywood	Sq. metre	2563151	2 4 8559 8	
8	Cement	M.T.	43492	46886	•
9	Electricity generator	Million K.W.H.	903658	926359	

Joint Stock Companies

6.10 During 1966-67, only one Public Limited Company and nineteen Private Limited Companies were newly registered in Kerala. 14 Companies (5 Public and 9 Private) were struck off while 26 companies (18 Public and 8 Private) went under liquidation. One Public Company became private during the year. In 1967-68 (April 1967 to December 1967 only) new registrations were 16 companies (1 Public and 15 Private). 14 Companies (3 Public and 11 Private) were struck off. 17 Companies (5 Public and 12 Private) were liquidated. One Public limited Company was transferred from this State to another State.

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Number of Joint Stock Companies from 1957-58 to 1967-68

Year	Public	Private	Total
(1)	(2)	(3)	(4)
1957-58	508	704	1212
1958-59	471	663	1134
1\$59-60	436 ·	618	1054
1960-61	435	604	1039
1961-62	409	598	1007
1962-63	413	620	1033
1963-64	406	62 5	1031
1964-65	397	631	1028
1965-66	. 379	631	1010
1966-67	356	634	990
1967-68	349	625	974

- 6.11 There was a reduction of nearly 18% in the number of public joint stock companies over the period 1961-1966 and it again declined by another 2% in 1967. But there was a net increase of 6% in the case of Private Limited Companies from 61 to 66 but it was reduced by 1.5% in 1967. On the whole there was a decrease of 4% during 1961 to 1966 and again another 2% decrease in 1967.
- 6.12 Even though there was a declining trend in the total number of companies a substantial increase could be observed with regard to both authorised and paid-up capital from 1961 to 1967 in public as well as Private Limited concerns.

Details showing authorised capital and prd up capital for 60-61, 65-66, 66-67 and 67-68

Year –	Author	rised capital		Paid up capital		•	
1647 —	Public	Private .	Total	Public	Private	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1960–61	3957.97	1782.55	5740.52	2407.62	634.57	3042.19	
1965-66	16836.56	4107.81	20944.37	3352.67	963.06	4315.73	
1966–67	17060.56	4164.51	21225.07	3508.86	974.44	4483.30	
J 1967–68	17180.56	4205.81	21386.37	3600.56	1163.78	4764.34	

J (April 1967 to December 1967)

Government owned companies:

- 6.13 During the year 1965-66 among the six Government owned companies namely, Trivandrum Rubber Works, Trivandrum Spinning Mills Ltd., The Kerala Ceramics Ltd., Kerala Electrical and Allied Engineering Company Ltd., Travancore Plywood Industries Ltd., and Kerala Soaps and Oil Ltd., most of them were working satisfactorily. A brief statement showing the authorised capital, paid up capital, turn-over, profit or loss of the above companies in 1965-66 is given in Appendix 6.6.
- 6.14 All the companies have almost fully repaid the working capital loans taken from the Government when they started functioning. The Wage Structure prevailing in the Companies compares favourably with those prevailing in similar industries in the private sector. For example, in Kerala Soaps and Oil Ltd., the daily wage, for a senior worker is Rs. 6 whereas in the Private Sector, it is only about Rs. 4. Similarily, for the lowest paid worker in the Kerala Soaps and Oils Ltd., the daily wage is Rs. 3.75 whereas in the private sector it is less than Rs. 3. All these concerns were made limited companies in 1964-65. In spite of labour strike, power cut and the difficulties in procuring essential raw materials like rubber and imported items like steel, chemicals etc., the Trivandrum Rubber Works made a net profit of Rs. 1.30 lakhs in 1965-66 after payment of Rs. 1.49 lakhs to Government by way of interest. The Trivandrum Plywood Industry Ltd. is paying a dividend of 10% to Government on the paid up capital. It made a profit of Rs. 3 lakhs in 1964-65 and Rs. 2.32 lakhs in 1965-66. Kerala Soaps and Oils Ltd. had to put up with heavy power cut during 1965-66. Nevertheless, it increased the turnover to the record figure of Rs. 1.21 crores and made a profit of nearly Rs. 0.29 lakhs.
- 6.15 Trivandrum Spinning. Mills Ltd., the Kerala Ceramic Ltd., and Kerala Electrical and Allied Engineering Company had to incur a loss of Rs. 8.14 lakhs, Rs. 9.04 lakhs and Rs. 1.66 lakhs respectively during 1965-66.
- 6.16 The question of increasing the production and manageriel efficiency of the enterprises owned, managed and controlled by the State Government is engaging the attention of the Government. In years to come, the Government enterprises will have to shoulder increasing responsibilities in respect of mobilising resources for overall development through the surpluses they create.

Traditional Industries:

Traditional Industries occupy a vital place in the State's strial set up. Of 10.88 lakhs of workers in the State engaged the industrial sector in 1961, 83% was employed in small scale d cottage units. The industries which play a significant role in e small scale sector are the traditional industries of coir, handom, cashew, etc.

- 6.18 Coir Industry employs nearly 4 to 5 lakhs of workers and more than 10 lakhs of people mainly depend on this industry for their livelihood. About 92 per cent of yarn production is in the co-operative sector. There are at present 543 coir service co-operatives in which Government have made till now an investment of Rs. 272 lakhs as share capital and working capital loans. During the year 1966-67 Government incurred an expenditure of Rs. 18.31 lakhs in this direction.
- 6.19 Coir industry has made a substantial contribution to the country's economy by way of earning valuable foreign exchange. 74,234 tonnes of coir and coir products to the value of nearly Rs. 11.1 crores were exported in 1965-66. However, as a result of intense competition from substitute products and the consequent difficulties in marketing the coir products abroad, there is a slump in the coir trade at present. A large number of factories have been fit of small producers and providing about Rs. 275 lakhs for coir development, the condition of the industry, particularly the condition of the ordinary coir worker remains unsatisfactory. An ordinary coir worker still gets less than Re. 1 per day.
- 6.20 Handloom industry in Kerala is another important traditional industry employing a large number of people. On the recommendation of the Textile Enquiry Committee of Government of India, a scheme for introducing power looms in the handloom sector was formulated and put into operation. Till the end of the Third Plan it was a centrally sponsored scheme. 500 power looms were purchased and distributed to 50 weavers' co-operative societies during th eyear 1960-61. All the above looms were commissioned during the Third Plan period in addition to the installation of 500 power looms as a second phase of the scheme. At present all the looms are not working to the full capacity on account of inadequacy of working capital and the general slump in the industry. 6,42,996 metres of handloom cloth were produced in 1966-67, out of which 25,582 metres were from Co-operative sector and the remaining from outside the co-operative sector. The production of powerloom cloth was 13.5 lakh metres, of the value of Rs. 15.6 lakhs. The solution t othe present stagnation and crisis in the handloom industry lies in solving the marketing problems, particularly product development and sales effort.
- 6.21 Another important traditional industry in the State is cashew industry. 67% of the cashew factories are either individual proprietorship or partnership concerns; while private limited companies account for nearly 29% Public limited companies and co-op 3.30 societies constitute only 2% of the total number of factories.
- 6.22 Next to jute, cashew industry is the largest dollar earn in India. 51, 62, 517 tonnes of cashew kernels were exported fetchist a total of Rs. 27.94 crores as value in 1965-66, in addition to 1

crore litres of cashew shell oil of the value of Rs. 2.04 crores. Heavy concentration of this industry is found in Quilon. Nearly 89,000 persons are employed in this industry, out of which women constitute 92%. 45% of the total employment is in registered factories. The average earnings per annum by way of wages are Rs. 563 for male workers, Rs. 397 for female workers and Rs. 198 for children. The average daily earnings of a worker in cashew industry in 1965-66 was as low as Rs. 1.83.

Industrial Co-operatives

6.23 With a view to improving the conditions of small producers and eliminating exploitation of middle men, a number of industrial co-operatives were organised. As on 30-6-1966 there were 2880 industrial co-operative societies employing 1,06,916 persons. The total working capital of all these co-operatives was Rs. 559.91 lakhs. The details of industrial co-operatives as on 30-6-1966 are given in Appendix 6.7.

Rural Industries Projects

- 6.24 The programme under Rural Industries was sponsored by the Planning Commission in 1962 for the intensive and rapid industrialisation of rural areas. The main object of the scheme is to convert as far as possible the overpopulated agricultural communities into balanced agro-industrial communities so that a considerable number of unemployed persons in agriculture and the educated unemployed of the locality can be given employment in the industries set up under the programme. On this basis, out of the 45 projects started initially in India in 1962 two were in Kerala, one at Alleppey and the other at Kozhikode.
- 6.25 The various development programmes undertaken by the projects are in brief:—(1) Establishment of Training Centres for selected workers giving facilities for occupational training in selected trades, (2) setting up of common facility centres for bringing technological improvements in production methods and to provide the village artisans with common work sheds and other technical assistance to improve their efficiency and earning capacity, (3) setting up of production units to be given on hire purchase basis to entrepreneurs, and (4) to give financial assistance to existing and new industries in the form of supply of machinery on hire purchase, for construction of factory buildings and cash loans. Under the commercial schemes production units will be set up by the project and entrusted to private entrepreneures who have to repay the envire cost with interests within a specified time.
- 6.26 151 units (54 at Alleppey and 97 at Kozhikode) have been given financial assistance. Under the commercial schemes two Straw Board factories and one Chemical Industrial Estate consisting of 8 different industries have been set up in Alleppey project

- so far. In the Kozhikode Project area 7 industries have been commissioned under the commercial schemes. They are (1) Leather tanning, (2) Manufacture of footwear, (3) Manufacture of Glass Bottles, (4) Agricultural Implements, (5) Ice Plant and Cold Storage, (6) Synthetic cattle feed, and (7) Bone meal factory.
- 6.27 The Financial assistance given by the two projects for both commercial and other schemes during the Third Plan and in 1966-67 are presented in the following table.

Financial Assistance to the Projects

	Commercial schemes		Othersin		Total Rs.
Project	During 3rd Plan	During 66-67	During 3rd Plan	During 66-67	· builing
	Rs. in lakhs	Rs. in lakhs	Rs. in lakhs	Rs. in lakhs	
Alleppey	9.73	1.15	7.52	2.86	21.26
Kozhiklde	9.00	1.09	9.37	11.06	30.52
Total	18.73	2.24	16.89	13.92	51.78

It is particularly noted that the Planning Commission has acclaimed the Rural Industries Projects in Kerala as the best in India.

Khadi and Village Industries.

- 6.28 The Kerala Khadi and Village Industries Board established in 1957 is the main agency which implements the khadi and village industries schemes in the State. Financial assistance for the development of khadi and 14 other village industries is being given by the Board.
- 6.29 The value of village industries products rose from Rs. 227.77 lakhs in 1965-66 and 236.83 lakhs in 1966-67. The production in 1966-67 was nearly 4 per cent higher than that in 1965-66. The major khadi production centre at Payyannur is run by the Board. The production of the centre in 1966-67 was to the value of Rs. 8.78 lakhs. There were 3,744 Spinners and 187 Weavers in the Centre by the end of 1966-67.

Industrial Estates

6.30 There are 18 industrial estates in the State. Out of these 4 have not yet been commissioned. In the 14 estates now working there are altogether 209 industrial units. With regard to the total number of units, the estates at Pappanamcode and Kozhikode top the list each with 26 units. The workers employed in the 14 estates number 1750. The consolidated expenditure of the 18 estates for 1967-68 (till the end of December 1967) was Rs. 6.43 lakhs. The corresponding figures for 1964-65, 1965-66 and 1966-67

were Rs. 14.98 lakhs, Rs. 30.63 lakhs and Rs. 14.95 lakhs respectively.

Industrial and Financial Corporations

- 6.31 With the object of promoting industrial activities in the State a number of institutions are now functioning. The chief among these are the Kerala Financial Corporation and the Kerala State Industrial Development Corporation.
- 6.32 The main function of the Kerala Financial Corporation is to grant loans and advances to industrial concerns, so as to accelerate the pace of industrial development in the State. From the inception of the Corporation upto 31-3-1967, 238 applications for loans amounting to Rs. 8.2 crores were received; and of these 174 applications were admitted and loans to the tune of Rs. 97.1 lakks were sanctioned.
- 6.33 A statement showing the categories of industries that sought assistance from the Kerala Financial Corporation during 1964-67 is given in Appendix 6.9. Only an amount of Rs. 3.9 crores was however disbursed till 31-3-1967. The details of loans disbursed to the various industrial units by the Corporation as on 31-3-1967 and loans, disbursed to small scale industries under the agency agreement with the Government of Kerala as on 31-3-1967 are given in Appendix 6.10 and 6.11.
- 6.34 Kerala State Industrial Development Corporation Ltd. is entrusted with the responsibility to stimulate and assist industrial ventures in the State through its financial and technical services. During 1966-67 applications for long-term loans were received from five parties, out of which two were accepted. The total amount of loans sanctioned was Rs. 55 lakhs. Out of the 26 companies assisted by the Corporation during the period 1962 to 1967, 13 companies with a total capital cost of Rs. 10.43 crores commenced production before 31-3-1967. The total number of parties who applied to the Kerala State Industrial Development Corporation for financial assistance in the year 1965-66 was nine.

Minerals

- 6.35 Kerala's deficiency in the basic minerals such as coal, petroleum and iron is one of the serious handicaps hampering its industrial development. The mineral wealth of Kerala consists mainly of beach-minerals comprising of ilmenite, rutile, monazite, zircon sillimanite, clays, high grade quartz sand, limestone etc. Other minerals like mica, graphite, iron ore, lignite and soap stone are also found in the State though not extensively.
- 6.36 Beach-sand deposits containing concentrations of heavy minerals like ilmenite, rutile, monazite, zircon and silimanite occur in Quilon district. The above beach-sands constitute the most

so far. In the Kozhikoces of Kerala. Ilmenite is the predominent commissioned under they minerals of these beach-sand deposits. An tanning, (2) Manufi of the 'sands' as mined in Chavara (in Quilon Bottles, (4) Agricollows:—ilmenite 65-77 per cent, zircon 5 per Storage, (6) Su per cent, Sillimanite 5—10 per cent, Monazite 1—6.27 The and Quartz 11 per cent. It is estimated that 32.28 million commerci ilmenite and 0.67 million tonnes of monazite are available

are pronine regions of the State so far investigated. The major of ilmenite, at present is in the manufacture of titanium oxide for uses of pigment plant. Now the Travancore Titanium products, Trivandrum, uses Quilon ilmenite for producing titanium dioxide. Its present capacity is 18 tonnes per day. The total annual capacity of the mineral processing plants to produce ilmenite is around 300,000 tonnes in a year. Originally exports provided the main outlet for the ilmenite so produced; but, of late, exports have dwindled.

- 6.37 Monozite is another important universal sand whose present output is very negligible compared to its potential reserves. The production during the last three years has averaged only 180 tonnes. A similar situation obtains in regard to rutile production also. Even here the State enjoys a monopoly, but is not making the optimum utilisation of the mineral sand. Both production and exports are dwindling as can be seen from Appendix 6.13.
- 6.38 Some of the finest varieties of China clay are found in Kundara, Cannanore, Quilon and Trivandrum. Occurrence of good variety clay deposits has been reported from Ernakulam and Kozhikode. The production and sales of clay in 1967, were considerably higher than that in 1966 (vide Appendix 6.14).
- 6.39 A preliminary field study of the Geological survey of India has indicated that the State is endowed with magnetite ore deposits of about 400 million tonnes near Calicut. The detailed survey is to be taken up in 1968. The occurrence of bauxite ores in several parts of the State has also been reported by the Geological Survey of India. The improved natural resources position points to the prospects and potentialities for industrialisation in the coming years.

CHAPTER VII

POWER

Among the various sources, electricity from waterpower is the cheapest. Compared to other States, Kerala is in an advantageous position in this regard, having been endowed with abundant water resources. The hydro electric potential of the State is estimated at 2.2 million K.W. at 60% L.F. as against 40 million K.W. for the country as a whole.

7.2 A systematic start for the extensive tapping of the hydro power resources in the State was made in 1940 with the commissioning of the first stage of the Pallivasal Project. Since then there has been steady progress and the installed capacity of the State system as on 1-2-1968 is 528,500 K.W. The installed capacity of the system as on 31-12-1967 was 3,60,500 K.W. The projects in operation as on date are the following:

	Project		Basin	Installed capacity (KW
1.	Pallivasal		Periyar	37500
2.	Sengulam	• •	do.	48000
3.	Neriamangalam		do.	45000
4.	Panniar		do.	30000
5.	Sholayar	• .	Chalakudy	36000
6.	Poringalkuthu		Chalakudy	32000
7.	Sabarigiri	• •	Pamba	300000
	Total			528500

7.3 Projects under different stages of execution are listed below:

	Project	-	Basin	Capacity (KW,)
1.	Sholayar (Unit III)	••	Chalakudy	18000
2.	Kuttiyadi	••	Kuttiyadi	25000 x 3
3.	Idikki (1st Phase)		Periyar	130000 x 3

The details of generation and purchase of power by the State system, during the period 1962-67 are given below:

	1962-63	1963-64	1964-65	1965-66	1966-67
Electricity generated in the State (million Kwt.)	715.55	762.88	795.10	841.94	1083.11
Purchased from neigh- bouring States (mill- ion Kwt.)	59.66	78.89	97.20	116.48	77.99

7.4 During the year 1966-67, 34 centres were electrified, 24620 consumers were connected up and 9023 street lights were installed. The details are furnished in Table (8.1). During the year 1967, 3 units of Sabarigiri with an installed capacity of 150000 KW. was commissioned. On 26th January 1968 second unit of Sholayar with an installed capacity of 18000 KW. was commissioned bringing the installed capacity of the State system to 528500 KW. Sholayar 3rd unit and Kuttiyadi (3 units) are expected to be commissioned before 31-3-1969. Thus the installed capacity as on 31-3-1969 will be 621500 K.W.

7.5 The distribution of consumers and connected load as on 31-3-1967 is as below:

	Category	Number of consumers	Connected load (K.W.)
	(1)	(2)	(3)
1.	Light and fans	318150	163970
2.	Domestic heat and small power (commrecial)	11238	23737
3.	Industrial power (L.T.)	10236	110894
4.	Industrial power (H.T)	309	216259
5.	Irrigation and agriculture	8495	54942
6.	Water Works and Sewage pumping	297	4343
7.	Bulk supplies to licences and export	6	47257
8.	Public lighting (No. of lights-116019		4708
	Total	348731	626110

^{7.6} The major consumer of electric power in the State is Industries. The rate charged to them are the lowest. Industries consume about 80% of the energy produced but contributes only about 48% of the revenue. On the other hand domestic consumption comes to 5.44% while it accounts for 22.3% of the revenue. The percentage distribution of consumption of energy and revenue collected during the year 1966-67 is given in the table

Percentage Distributing of Consumption of Energy and Receipts (1966-67)

\	Category of Consumers	Energy consumed (%) Revenue	collected (%)
	(1)	(2)	(3)
1.	Domestic heat and small power	0.93	2.6
2	. Domestic light and fans	4.51	19,7
3	. Commercial heat and power	0.65	2.2
4	. Commercial light and fans	3.33 .	15.8
5	Industrial Power (L.T.)	8.26	13.5
6	. Industrial Power (H.T.)	71.90	34.9
7.	. Public lighting	1.30	4.4
8.	. Irrigation and Dewatering	3.36	-3.3
9.	. Water works	0.53	0.7
10.	. Bulk supply	5 .23	2.9
	Total	100.00	100.00

- 7.7 Power for domestic consumption will be costlier than that for industrial consumption for obvious reasons. Low tariffs are preferred to industries presumably to offer an incentive for starting industries. But it calls for closer examination whether it is absolutely necessary to undersell power to industrialists. In the initial stages power may have to be supplied at subsidised rates. But when the industry has stabilised it may not be necessary to subsidise them. It is only reasonable to fix the tariff on a no loss no profit basis, if not on a cost plus scales.
- 7.8 The cost at metre per unit of E.H.T. current is 5.04 paise and that for H.T. current is 7.80 paise. The average revenue from these (E.H.T. and H.T.) in 1967 is only 4.70 paise per unit. Thus State is subsidising the major industries to the tune of Rs. 51 lakhs per annum.
- 7.9 In the case of industries which are not power intensive an upward revision of these subsidised rates will not affect their financial position materially. Even in the case of power intensive industries there is not much justification in subsidising them when they have stabilised. Also, in the case of power intensive units, power is to be treated on a par with raw materials and when the price of all other raw materials has increased there is full justification in increasing the price of power also.
- 7.10 In fact, what must industries require is an assured steady supply of power, rather than cheap power. Now, that the supply position of the State system has improved it should be possible to

enter into contracts on a mutual penalty basis. This would undoubtedly go a long way towards the objective of industrialisation.

7.11 1967 marks the beginning of a new era of self-sufficiency in regard to power supply. Power cuts which used to be a regular feature in the previous years had not to be imposed during the year. In the very near future the supply position will be quite bright and the State is expected to reach a stage when we could export power to the neighbouring States.

CHAPTER VIII

TRANSPORT

Kerala's development is vitally linked with the maintenance of adequate transport facilities. The transport system of the State consists of 892 K.M. of railways, 17183 K.M. of roads, 1885 K.M. of inland waterways, 111 statute miles of airways and 13 ports including the major port of Cochin. Nearly three-fifth of the railway system is broad-gauge and the remaining two-fifths meter-gauge. The Cochin area alone is served both by the meter-gauge and broadgauge. As the railway system is mainly coastal, it does not reach the major producing areas of agricultural commodities. The peculiar topographical conditions prevailing in the State is perhaps the major reason for the absence of a well developed railway system. The road system is fairly developed in contrast to the railway system The State has an average road length of 44 K.M. per 100 Sq. K.M. as against the all-India average of 23 K.M. The waterways are well developed, but they play only a limited role in the development of the economy.

Road Transport:

- 8.2 While not much light can be thrown on the activities of the private sector in road tansport industry, a clear account of the activities of the Kerala State Road Transport Corporation can be provided with the aid of the information made available by the Corporation. This organisation was formed in 1-4-1965. The Corporation's assets have increased from Rs. 579.04 lakhs on 31-3-1966 to Rs. 629.04 lakhs on 31-3-1967. The Corporation while drawing up their proposals for the period 1966-71 have selected 8 major road sectors in the State for complete nationalisation of road transport services. During 1966-67 nationalisation scheme in respect of the following road sectors was included in the Plan programme:
 - 1. Ernakulam—Kottayam (via) Vaikom—Erattupettah (37 buses)
 - 2. Kayamkulam—Punalur (15 buses)
- These schemes were under implementation at the end of the year 1966-67. The programme for 1967-68, included purchase of new vehicles, servicing of buses in new routes, construction of new bus stations, offices and garages at Ernakulam, Alwaye and Kozhikode, and providing additional facilities at the Central Workshop.
- 8.3 There was a net addition of 85 busies, 4 lories and 11 other vehicles to the operating fleet of the Corporation. The operating 3|640

fleet as at the end of 1966-67 consisted of 1006 buses, 57 lories and 48 other vehicles, thus making a total of 1111 vehicles. The number of bus schedules increased from 697 to 768 during the year 1966-67. The Corporation vehicles operated about 700 lakhs of effective kilometres during the year which was 10.7% in excess of that operated in 1965-66. The passenger services run by the Corporation operated 688.11 lakhs of passengers as against 633.24 lakhs of effective kilometres and 1585.30 lakhs of passengers in 1965-66. Routes and distances operated and the number of passengers carried by the Corporation are provided in Appendix 8.2.

8.4 The income from passenger services in the year was Rs. 695.05 lakhs which shows an increase of 18.5% over that in 1965-66. The average earnings per kilometre of bus services increased from 94.7 paise in 1965-66 to 100.8 paise in 1966-67. The gross revenue receipts of the Corporation for 1966-67 was Rs. 751.66 lakhs and the gross expenditure Rs. 727.54 lakhs resulting in an overall net surplus of Rs. 24.12 lakhs. (Vide Appendix 8.3) The revenue and expenditure of the water transport section of the Corporation are also included in gross revenue and expenditure. Major centres of neighbouring States like Madurai and Mysore are connected by Express services. The Fast Passenger services have proved to be of considerable success.

Railways:

- 8.5 The railway system of the State is made up of 553 K.M. of broad-gauge lines and 339 K.M. of metre-gauge lines. The railway mileage per lakh of population in Kerala is only a third of that of all-India. The total railway mileage in the State has been remaining stationary for a number of years. Unless the railways are expanded, the industrial promotion of the State will become difficult in the coming years. The Cochin region is served both by the broad-gauge and metre-gauge lines, but the flow of goods from the South (which is served only by the metre-gauge) to the North is not smooth owing to the change of guage at Ernakulam. With the rapid growth of the industrial complex in and around the Cochin-Alwaye region, the pressure of traffic in the region has increased considerably. Cochin is a major port handling a substantial portion of the export-import trade of the State and hence the urgent necessity to link Cochin with other areas of the State with an efficient railway system.
- 8.6 In 1964 the railways in Kerala handled about 1.15 million tonnes of incoming goods and 0.58 million tonnes of autgoing goods. Railways will have to play an increasingly important role, in the coming years. The National Council of Applied Economic Research in their Techno-Economic Survey (1959) estimated that by 1971 the volume of goods traffic in the State would be of the order of 9 million tonnes. According to the NCAER the railways will have

to bear atleast a third of this load. Goods for export, especially plantation products from Kottayam District, cashew kernels and shell liquid from Quilon District, fish and coir from the eas South of Alleppey can all be transported more efficiently if the railway system is further developed and the delays due to the break of gauge is avoided by connecting the metre-gauge line running from Trivandrum to Ernakulam into a broad-gauge line. This in addition will help to link New Delhi with the State capital on a direct line.

Inland Navigation:

8.7 The backwaters, navigable rivers and canals in the State contribute to a fairly good inland navigation system. The State has a total length of 1885 K.M. of inland waterways. The West coast canal system which starts from Tivandrum stretches uptromodurg and has a total length of 555 K.M. The total expenditure incurred by the Water Transport section of the Transport Corporation continued to be higher than the revenue receipts. While the expenditure in 1966-67 was Rs. 10.39 lakhs, the receipts totalled only Rs. 9.71 lakhs. The net deficit in 1966-67 was 0.17 lakh more than that in the previous year (Vide Appendix 8.4). The Corporation possessed a fleet of 11 boats for operating the ferry services at the beginning of 1966-67. During the year one more boat was built and commissioned for service. Thus at the end of 1966-67 the Corporation had 12 boats for ferry service with a total seating capacity of 1678.

Ports and Harbours:

- 8.8 There are at present two intermediate ports and ten minor ports besides the major port at Cochin. On a rough estimate these ports handle goods worth Rs. 200 crores annually. All the ports are lacking even the minimum amenities required. The Master Plan prepared by the Government in 1960 estimated that an amount of about Rs. 9 crores is required for the overall development of these ports to meet the increased volume of traffic.
- 8.9 During the year under review, there was a programme for the construction of fishing harbours at Vizhinjam, Mopla Bay, Balia Pattam, Beypore and Azhikode. Considerable progress has been made at Vizhinjam and Mopla Bay. At the remaining centres also work progressed according to schedule. Preliminary work for the development of the fishing harbour at Ponnani was also undertaken.
- 8.10 The State Government have entered into an agreement with Indopol Company for the preparation of a feasibility report about the development of the minor ports in the State. The work of the Company is in progress.

8.11 The present plight of the Cochin harbour which once held out great promise of spectacular development, continues to cause concern to the rapid gowthr of the State's economy especially in the sectors of trade and tourism. Inadequate facilities and indifferent maintenance hamper the nomal functioning of the harbour. Large Cargo ships and passenger liners skip Cochin now-a-days, as they cannot enter or leave the harbour which needs dredging. It is hoped that the Cochin ship-yard project, which has hitherto not been taken up for implementation, will be accorded high priority in the formulation of the next plan.

CHAPTER IX

EXPORT-IMPORT TRADE

The year 1966-67 showed a further increase in foreign exports from the State. The value of foreign exports during 1966-67 totalled Rs. 137 crores as against Rs. 90 crores during the previous year. This increase was, however, partly due to the change in the value of the Rupees; and partly due to increase in quantum. In respect of exports, significant increase in quantity was noticeable only in the case of marine products and coffee. The performance of the major export earners of Kerala viz., Cashew Kernels, coir and coir products, pepper, coffee, tea and marine products is being reviewed below:—Cashew kernels

9.2 The cashew processing industry has earned foreign exchange worth Rs. 45.19 crores against Rs. 27.73 crores during 1965-66. Exports of processed kernels were to the tune of 50,000 tonnes valued at Rs. 43.52 crores during this period. Cashew shell liquid worth Rs. 1.67 crores was also exported during the same period. U.S.A. continues to be the largest buyer of Indian cashewnuts, lifting as much as 23,941 tonnes of processed kernels during the first 11 months or 1967. This exceeded the level of exports attained during the corresponding period in the previous year by 2087 tonnes. Russian at take had slightly decreased during January-November 1967. It was only 11442 tonnes compared with 13232 tonnes in January January November 1966. East Germany continued to be the next important buyer of Cashew kernel followed by the U. K. The U. K., U. S. A. and Japan were the important buyers of the byeproduct of the cashew processing industry. The emergence of mechanised processing units in some of the African countries from where the Indian factories have been getting their raw material has become a threat to the future supplies from that source. It has therefore become imperative for the country to step up the production of cashew nuts. As part of the efforts to raise indigenous production of raw cashew nuts, which should ultimately feed the processing units in the country, the Central Government has sanctioned a package scheme for cashew cultivation in the four southern states-Kerala, Madras, Mysore and Andhra. The total area to be cultivated under the scheme is 12000 acres. Growers will be given financial assistance by the Government, including loans and subsidies under the scheme.

Coir and Coir products.

9.3 Exports of Coir and Coir products though showing a slight decline in volume, have earned about 50% more in 1966-67 compared

to the previous year. Presumably this increase in the value of exports from Rs. 10.19 crores in 1965-66 to Rs. 14.91 crores in 1966-67 was due mainly to the change in the exchange value of the Indian rupee in June 1966. The U.K. is one of the important markets for Kerala's coir goods. Kerala's coir exporters have been adversely affected by the pound devaluation. Coir goods have become costlier in the U.K. on account of devaluation. To accentuate this, the imposition of the credit squeeze in Great Britain has worsened the prospects of exports to that country. The problem of stagnant exports assumes added importance in the context of the decision in November 1967 of the British Government to devalue the pound sterling

9.4 The future prosperity of the coir industry depends to a very. great extent on its ability to sustain and expand the foreign markets for its products. The Indian-made coir mattings which are produced on handlooms do not compare favourably with the mattings manufactured on power looms on the continent. It is for this reason that the manufacture of our coir mattings stands in need of immediate improvement and modernization. It has been decided to mechanise one-third of the matting sector. The Coir Board has already initiated steps in this direction, besides undertaking exploratory work for the development of a suitable composition to provide nonskid backing surfaces to mats and mattings. There is wide scope for the coir industry in the fields of acoustic control heat insulation, etc. It should be possible for the coir industry to produce a satisfactory cushioning material particularly with the rapid strides achieved in the production of rubberised coir. The industry has to look to modern developments and techniques. The future growth of the coir industry rests also on the reorganisation and strengthening of the cooperative sector so that they can improve their performance both in the field of technology and marketing. A recent welcome development was the announcement of the Government of India on 8th February, to completely exempt from export duty Coir manufacturers. In addition, the duty on coir yarn has been scaled down from the existing 25% to 15% ad valorem. These concessions, it is hoped will help to brighten the prospects of Coir exports.

Pepper

9.5 Pepper exports during 1966-67 declined by 4000 tonnes in comparison with the previous year, but the earnings rose by about a crore of rupees. Pepper market is a very sensitive one characterised by wide and frequent fluctuations. To a considerable extent Kerala's pepper exports are conditioned principally by the behaviour of the New York and Bombay markets as well as by the prevalent political and economic situation in Malayasia and Indonesia. Indonesian pepper has a price advantage over Indian pepper and this flampers India's pepper exports to U.S.A. Only

in the years of short-fall in Indonesian production do U.S. buyers generally show active interest in Indian pepper. Kerala's pepper is exported to nearly 60 countries in the world. But U.S.A. and U.S.S.R. together account for about 50%. Another competitor to Indian Pepper in the U.S. market is Brazil whose share has increased from 3.5 to 14.7% between 1959 and 1965. Brazil's crop has increased four times in the decade 1957-67 from about 2500 tonnes to 10000 tons. A further increase cannot be ruled out in view of the enormous size of that country. An advantage which both Brazil and Indonesia enjoy to the great detriment of India is that they have very little home consumption. They are able to under-cut the price of Indian Pepper to a large extent. Any sizeable increase in their crops, would make further inroads into the established export markets of India. The white pepper production in Kerala continues to be insignificant and this is a handicap to the entry of Indian Pepper to the U.K. and the prosperous market of the European Economic Community (excepting Italy). The above region which absorbs roughly 20% of the world's pepper trade places a premium on white pepper.

9.6 A programme for expanding pepper production by 40% and probing the possibilities of developing white pepper has been drawn up. Considering this aspect as well as the benefit accruing from the devaluation of the rupee the possibility of an increase in the volume of pepper exports, in the years to come cannot be ruled out. However, the potential is limited by the moderate rate at which the aggregate foreign consumption is growing. To the extent that India succeeds in organising commercial production of white pepper, it can improve its share in the West European markets. It may be mentioned here that talks are underway between the Indian and Indonesian Governments towards an attempt at stabilising the international prices of black pepper and also the maintenance of parity in the prices of black pepper exported by the countries.

Tea

9.7 Tea exports accounted for Rs. 28.73 crores in 1966-67 as against Rs. 22.10 crores earned during the previous year. Though the value of exports increased due to change in the exchange value of the rupee, the volume had dropped by approximately 6000 tonnes. Though devaluation was expected to give a fillip to tea exports by making Indian tea cheaper in foreign markets, this did not actually materialise. Re-imposition of the export duty abolished in March 1963, at the rate of Rs. 2 per Kg., simultaneously with devaluation, had an adverse effect on tea exports. An FAO survey of the recent developments in the world Food and Agriculture situation, stated that the world trade in tea during the first half of 1967 showed some recovery despite lighter shipments from East Africa (because of the drought there) but the average prices at the London auctions

during the first eight months were generally lower than a year earlier. The closing of the Suez canal had little effect on the London market, but some pressure on prices were expected, with the inflow of the diverted supplies. Production was likely to be larger than in 1966 in India, whereas it would be lower in Ceylon. The export prospects in 1968 will chiefly depend on the U.K.'s buying policy. In view of the high cost of credit in that country, buyers there are likely to cut down their purchases. for the tea producers, there is an expanding home market. However, a limiting factor will be the scarcity and high price of sugar. A welcome feature is the signing of the Indo-Ceylon Tea Agreement which provides for collaboration in marketing and research for improving the economic viability of the tea industries of Ceylon and India. On February 6,1968 the Finance Ministry of the Government of India announced that the export duty on teas, the value of which exceeds Rs. 8 per Kg. has been reduced and a uniform rate of 20% ad valorem less 24 paise per Kg. has been prescribed as against the existing three rates of duty. This decision has been taken in line with the Government's general policy to keep the performance of exports under constant review and in the light of the various representations received from the trading interests from time to time

Marine products:

9.8 This is an export item in which Kerala has been making a headway in recent years. In 1966-67 the export earnings amounted to Rs. 15.20 crores which was more than double the previous year's exports of Rs. 7.36 crores. The Kerala coast abounds in commercially important species like Sardines, prawns, mackerel, Sharks, silver bellies etc. Canned and frozen prawns, dried fish and frozen frog legs find a ready market in the U.S.A., Australia, Japan, Hongkong, Ceylon, U.K. and France. Future exports will depend more and more on aggressive selling, consumer packaging and effective promotion. This must be backed up by modern canning methods and facilities which will make the growth in marine exports possible. Efforts to improve the efficiency of the craft and the return for the investment which continue to receive adequate attention. A suitable climate by way of lcan assistance, handling and freezing services should be created. The Industrial Development Bank of India is considering the proposal to give credit for fishing vessels, cold storage etc. under the priority sector. In addition it should also be feasible to utilise the non-plan resources available from institutions like the Agriculture Re-finance Corporation, the L.I.C. etc. for fisheries schemes including operation of a fleet of boats, marketing etc. under the cooperative sector. Development of fishing industry on modern lines will help to improve the conditions of a considerable section of the population depending on this important industry for their livelihood.

Other commodities:

9.9 During 1966-67, export earnings of Lemongrass cil have gone up in sharp contrast to the experience of the previous year. Improvement is discernible in the exports of Rubber manufactures, Wood and Timber and Coffee, indicating of demand conditions for these products in the markets abroad. Cardamom has recorded a leap forward. The exports earnings have almost quadrupled from Rs. 61.83 lakhs to Rs. 233.04 lakhs. Cardamom found a good market in 1965-66 in the Middle-East and in Scandinavia.

Imports:

9.10 Foreign imports bill totalled Rs. 73.23 crores during the year 1966-67 as against Rs. 71.92 crores in 1965-66. The principal items imported were raw cashew kernels and foodgrains which together constituted about 63% of the total imports.

CHAPTER X

EDUCATION, HEALTH AND OTHER SOCIAL SERVICES

Kerala is the most literate State in India. According to 1961 census, Kerala leads the States in India with 46.8% literacy. (See Appendix 10.1) In the case of both male and female literacy Kerala comes first, with 55.0% in the case of males and 38.9% in the case of females. The literacy rates of the districts of Alleppey, Kottayam, Ernakulam, Quilon and Trichur are above the State average. Alleppey district recorded the highest proportion of literates and Palghat the lowest (vide Appendix 10.2). The proporation of literates to the total population shows substantial increase from year to year and has reached the level of about 55%.

- 10.2 About 38.6% of the State's expenditure under Revenue Account (1967-1968) was on Education. The per capita Government expenditure on education stood at Rs. 18.48 in 1966-1967 as against Rs. 15.19 in 1965-1966 (vide Appendix 10.3). The per capita Government expenditure on education in the various States is given in Appendix 10.4 and it could be seen that the per capita expenditure on education is the highest in Kerala.
- 10.3 Expenditure on general education accounts for about 90% of the total Government expenditure on education. Appendix 10.5 presents data relating to the Government expenditure for general school education for the years 1961-1962 to 1966-1967.

General Education (School standard):.

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- 10.4 There has been an increasing demand for schools and generally the number of schools is increasing every year. This has to be viewed against the fact that many of the existing schools are badly housed. Shift system has been introduced in standards I, II and III of a large number of lower primary schools particularly in Travancere-Cochin area. The number of students receiving instruction under the shift system in the first three standards formed 46% of the total in 1965-1966. Appendix 10.6 shows the growth of schools in Kerala from 1957-58 to 1967-1968. The prevalence of shift system has adversely affected the quality of education.
- 10.5 Private Sector plays an important role in the field of general education in the State. Of the total number of 10691 schools in the State in 1967-1968, 6656 schools (62%) are under private management.
- 10.6 Enrolment in Schools for general education is increasing steadily. There was 5.7% increase in enrolment during 1966, 1967 over the previous year. The stage-wise increase in enrolment

is furnished in Appendix 10.7. The growth of school enrolmen during the period 1957-1958 to 1966-1967 may be seen from th following table.

Enrolment in Schools for General Education 1957-58 to 1966-67.

Year	Number of Students (in lakhs)			
1 ear	Boys	Girls	Total	
. (1)	(2)	(3)	(4)	
1957–1958	15.91	12.51	28.42	
1958-1959	16.66	13.58	30.24	
1959-1960	17.11	14.03	31.14	
1960-1961	17.87	14.79	32.66	
1961-1962	18.88	15.74	34.62	
1962-1963	19.68	16.54	36.22	
1963-1964	20.74	17.45	38.19	
1964-1965	21.73	18.37	40.10	
1965-1966	22.58	19.10	41.68	
1966-1967	23.71	20.34	44.05	

- 10.7 Consequent on the increase in enrolment, during 1965-196 89 High Schools and 80 U. P. Schools were allowed to work in session in order to relieve the pressure of over crowding. The total numb of students under sessional system was 112491 in High Schools at 54846 in U. P. Schools.
- 10.8 Of the 124822 teachers working in standards I to X durin 1965-1966, 12840 were untrained; and about 70% was in the priva schools. The number of teachers for general education increase from 84185 in 1957-1958 to 124822 in 1965-1966.
- Examination and of these 71338 (40%) came out successful. The problem of wastage in general school education deserves attentic It has been estimated that the extent of wastage in the lower property and upper primary stages in 1965-1966 was of the order 21% and 25% respectively. The wastage in secondary stage about 37% (excluding those who failed in the S.S.L.C. Examination A study of the decade 1957-67 revealed that out of 100 studen admitted in standard I, only 27 students continue their studies up standard X. Out of of these 27 students only 11 came out successful the S.S.L.C. Examination in their first attempt.

Professional and Special Education:

10.10 Of the 105 Teachers' Training Schools, 74 are managed larivate agencies. During the year 1966-1967, the total intagraph was 7600. The district wise details regarding the capacity was 7600. Training Schools

- Appendix 10.8. In order to improve the efficiency, the total number of seats in Teachers' Training Schools has been reduced to 6680 during 1967-1968. It is roughly estimated that the future demand for trained teachers can be met if the present rate of admission is maintained. Three Nursery Training Schools are functioning in the State with an intake capacity of 120.
- 10.11 Excluding the 3 women's polytechnics, there are 16 general polytechnics in the State with a sanctioned intake capacity of 2420 during 1967-1968 as against 2320 in 1966-1967. District-wise distribution of polytechnics and sanctioned intake are furnished in appendix 10.9. Widespread unemployment among diploma holders turned out by the polytechnics currently observed is likely to worsen at the present rate of admission.
- 10.12 During 1967-1968, there were 3 women's polytechnics with an annual intake capacity of 240 imparting training in Secretariat Practice and Stenography, draughtsmanship in Civil Engineering, Electronics and Costume design and dress making.
- 10.13 There were 35 Industrial Training Institutes during the year 1967-68. Of these 25 were under private management. The district-wise number of Industrial Training Institutes and total number of seats are furnished in Appendix 10.11. The problem of acute unemployment is facing the Industrial Training Institute trainees also.
- 10.14 There are also 20 Junior Technical Schools in the State with an annual intake capacity of 1200. The 5 Survey Training schools one each in the districts of Trivandrum, Kottayam, Ernakulam, Kozhikode and Cannanore imparts training in chain survey higher survey etc. There were 7 schools for handicapped children—5 Departmental and 2 private—during 1966-67.
- 10.15 During 1967-1968, there were 17 general Nursing Schools and 17 auxiliary nurse-midwifery schools in the State with an annual intake capacity of 614 and 343 respectively. District-wise details are furnished in Appendix 10.11.

Higher Education:

10.16 There were 106 Arts and Science Colleges in the State during 1966-67. The enrolment in the Arts and Science Colleges increased from 105184 in 1965-1966 to 112539 in 1966-1967. The number of Colleges and students admitted during 1965-66 and 1966-67 in each district are given in Appendix 10.12. The number of students enrolled in Arts, Science, Oriental Studies and Commerce faculties was 69997 boys and 42954 girls in 1966-1967 as against 63552 boys and 39022 girls in 1965-66 recording an increase of 10.14% in the case of boys and 10.08% in the case of girls.

- 10.17 During 1966-67 there were 6 Engineering Colleges wit an intake capacity of 1160 as against 1110 in 1965-66. The tot number of students in Engineering Colleges was 4890 boys and 24 girls in 1966-1967 as against 4690 boys and 245 girls in 1965-196 registering an increase of 11.26% in the case of boys. The poss bilities for starting new courses important in the present contex of economic development require urgent examination.
- 10.18 There were 4 medical colleges in the State during 1966-196 with an intake capacity of 545 and one Dental College with an intal capacity of 30. The enrolment during 1966-67 was 2030 boy and 735 girls as against 1886 boys and 659 girls during 1965-196 recording an increase of 7.64% in the case of boys and 11.53 the case of girls. The capacity of the Dental College is not full utilised at present. The actual intake in the Dental College is give below:

Year	Sanctioned intake	Actual intake	
1960–61	20	27	
196162	30	30	
1962–63	30	28	
1963-64	30	27	
1964-65	30	19	
1965–66	30	22	
1966-67	30	21	

- 10.19 The annual intake capacity of the Agricultural College 80 and that of Veterinary College is 50. The total enrolment Agricultural College was 249 boys and 37 girls in 1966-67 as again 205 boys and 33 girls in 1965-66 and in the Veterinary College w 207 boys and 16 girls in 1966-67 as against 205 boys and 33 girls in 1965-66.
- 10.20 There were 19 Teachers' Training Colleges—4 Department and 15 private—in the State during 1966-67. The enrolment Teachers' Training Colleges was 993 boys and 108 girls in 1966-as against 1145 boys and 1253 girls in 1965-66 recording a decli of 13.28% in the case of boys and 13.73% in the case of gir Taking into consideration the future enrolment in standards VI to X, it seems necessary to reduce the present intake capacity f B.Ed. degree course. The district-wise distribution of Traini Colleges is furnished in Appendix 10.13.
 - 10.21 There were 2 Law Colleges in the State during 1966-6. The enrolment during 1966-67 was 666 boys and 57 girls as again 424 boys and 45 girls in 1965-66 registering an increase of 57.08 in the case of boys and 26.67% in the case of girls.

10.22 In Ayurveda College, Tivrandrum affiliated to the Kerala University, the enrolment duirng 1966-67 was 249 boys and 37 girls as against 205 boys and 33 girls in 1965-66. Besides this there is the Government Ayurveda College at Trippunithura and another private Ayurveda College at Kottakal. The Homoeo College at Kuruchi (Kottayam) is imparting training in Homoeo system of medicine.

Health Services:

10.23. Excluding Jammu and Kashmir, the per capita government expenditure on health services is highest in Kerala and is estimated at Rs. 5.28, in 1966-67 as against Rs. 4.49 in 1965-66. The per capita Government expenditure on health services during 1966-67 in the various States is given in Appendix 10.14.

10.24 The number of medical and public health institutions increased from 369 in 1957-58 to 503 in 1966-67 and the number of beds increased from 11959 in 1957-58 to 19950 in 1966-67. The district-wise distribution of the institutions and their bed strength are given in Appendix 10.15. Data relating to the growth of the number of medical institutions and beds in Kerala from 1957-58 onwards is given below:

Year	Number of Institutions	Number of beds
(1)	(2)	(3)
1957–58	369	11959
1958-59	382	12352
1959-60	390	12810
196061	397	13978
1961-62	422	14108
1962-63	437	15753
1963-64	4 56	16681
1964-65	479	17636
1965-66	491	18526
1966-67	503	19950

10.25 The number of beds available per lakh of population during 1966-67 was 102 and the norm suggested by Mudaliar Committee (one bed per 1000 population) has been surpassed. The bed population ratio is below the State average in the districts of Quilon, Kottayam, Palghat, Kozhikode and Cannanore. It is almost double that of the State average in Trivandrum district. The number of beds available per lakh of population in each, district in 1966-67 is given in Appendix 10.16.

- 10.26 During 1966-67, there were 40 Ayurvedic Hospitals with a total bed-strength of 471. More over, there were 218 dispensaries in the State (Vide Appendix 10.17).
- 10.27 The family planning programme was introduced in the State in 1955. By the end of 1966-67, there were 1446 Family Planning Centres in the State. Facilities are provided in all the 143 Primary Health Centres for sterilisation and I.U.C.D. insertion. In addition to this there were 18 Mobile Family Planning Units in 1966-67. The total number of sterilisation operations conducted upto November 1967 is 54039.
- 10.28 The programme of I.U.C.D. insertion was started in the State in July 1965. The details of I.U.C.D. insertions are furnished below:

 Year A	lo. of I.U.C.D. insertions
1965	23062
1966	43517
1967 (up to Novem	ber) 34178

Welfare of Backward Classes:

- 10.29 According to the 1961 census, scheduled castes and scheduled tribes form 8.4% and 1.2% of the total population in Kerala. The major activities of the Government for the welfare of backward classes are educational concessions, housing, water supply and health services.
- 10.30 Education is the most important item of work taken up by Government for the uplift of backward classes. All students belonging to scheduled castes and scheduled tribes are exempted from payment of all kinds of fees at all stages of education for two years in each class without any restriction to the income of their parents. These students are also given lump sum grant ranging from Rs. 3 to Rs. 40 in pre-matric classes and from Rs. 60 to Rs. 200 in post-matric classes. The students studying in post matriculation classes are also given boarding and lodging charges and pocket money if they reside in recognised hostels and a monthly stipend of Rs. 40 if they attend colleges from their houses. these benefits are given to other eligible communities also. During the year 1966-67, 301139 students in pre-matric classes and 1329 in vocational classes and 30442 students in post-matric classes and 4365 in technical and professional classes were benefited by this programme. The total amount spent under this was of the order of Rs. 138 48 lakhs. Four students studying outside the State were also given financial help. Government of India scholarships were given to 2913 students and an amount of Rs. 779147 was spent under this item.

- 10.31 For the benefit of scheduled castes and scheduled tribes students 29 welfare hostels, 6 cosmopolitan hostels, 18 subsidised hostels and 39 residential basic schools were run during the year.
- 10.32 During the year 1966-67, sanction was accorded for the construction of 106 houses and of these 62 were completed.

Water Supply and Sanitation:

- 10.33 During the year 1966-67, none of the urban water supply schemes taken up for execution was completed. The works of the following urban water supply schemes are in progress.
 - 1. Trivandrum Water Supply Scheme (Augmentation)
 - 2. Kozhikode Water Supply Scheme (Augmentation)
 - 3. Cannanore-Tellicherry Water Supply Scheme
 - 4. Badagara Water Supply Scheme
 - 5. Shoranur Water Supply Scheme
 - 6. Perumbavoor Water Supply Scheme
 - 7. Ernakulam-Mattencherry Water Supply Scheme
 - 8. Sherthalai Water Supply Scheme
 - 9. Vaikom Water Supply Scheme
 - 10. Kayamkulam Water Supply Scheme

In addition to the above, at the beginning of the year 1967-68 there were 171 water supply schemes under execution in the rural areas and of these 55 have been completed so far.

CHAPTER XI

EMPLOYMENT SITUATION

One of the serious problems affecting the economic development of Kerala is the prevalence of wide spread unemployment and under-The factors which influence such a state of affairs are the increasing pressure of population on land, seasonal nature of agricultural operations and the lack of supplementary industries, the uneconomic size of holding and the ineffective system of marketing and distribution. The development of small scale industries is still in its infant stage. There is large scale unemployment and underemployment in coir, cashew, handloom and similar other industries. For instance, in the organised sector of the coir industry employment fell from 6408 in 1965 to 5930 in 1966. On the whole, a similar trend was observed during the last few years. Educated unemployment is the most acute problem which the State faces at present. Even though the development activities considerably enlarged the scope of employment in the services sector, there is large scale unemployment even among the technically qualified personnel like Engineers, Craftsmen etc. The heavy registrations at the Employment Exchanges gives only a partial view of the existing unemployment in the State.

- 11.2 The unemployment survey conducted by the Bureau of Economics and Statistics during November-December 1965 reveals that there are about 5.5 lakhs unemployed and 54.7 lakhs employed persons in the State by the end of 1965. Even among the employed persons about 12% have work only less than 15 hours, 18% have work between 15 to 28 hours; about 25% have work between 29 to 42 hours and about 45% have work over 42 hours in a week. Thus it can be seen that among the employed persons about 55% have work less than 42 hours during a week. This gives an idea of the extent of underemployment among the employed persons in the State.
- 11.3 Out of the 5.5 lakhs unemployed persons about 2.5 lakhs are seeking employment and the remaining persons though not seeking work are available for it. The breakup of these unemployed persons according to their educational standard, reveals that among those who are seeking employment 42% are matriculates and above and among those who are available for work, 13.4% have this level of education. This shows that educated unemployment is a serious problem in the State.
- 11.4 A sectoral breakup of the employed as revealed from the above survey shows that 55% are employed in the primary sector

- (Agriculture and allied activities), 17% are in the secondary sector (Manufacturing) and 28% are in the tertiary sector.
- 11.5 The Employment Exchanges working in the State are providing employment service to the employers and employment seekers. Statistics relating to the placings and registrations at the Employment Exchanges serve as an indicator of the employment situation in the State. The registrations in the Employment Exchanges include those who are already employed, but seeking better employment. Similarly all the unemployed persons may not register their names in the Exchanges. Therefore it is difficult to assess the actual unemployment position in the State using the data of the Employment Exchanges.
- 11.6 The data regarding the number of placings and registrations in the Employment Exchanges reveals that the number of registrations has increased considerably during 1967 (more than 13% over the previous year) whereas during 1967 the number of placings has decreased by about 8% over the year 1966. The average number of employers using the Employment Exchanges has also increased during 1967. The details are given in the following table:

Item	1963	1964	1965	1966	1967
No. of registrations	141878	137379	140350	137030	154918
Number of placings Monthly average number of	18187	14024	18378	16904	15617
employers using the Exchanges	366	337	434	464	512 *

^{*} Average for the first nine months of the year 1967.

11.7 The distribution of the number of candidates on the Live Register as on 31-12-1966 and 31-12-1967 is given in the subjoined table.

State/District		No. of candidates on live register as on 31-12-1966	No. of candidates on live live register as on 31-12-1967
Kerala		157156	179479
Trivandrum		38768	46125
Quilon		19338	22570
Alleppey	•	12948	15410
Kottayam		13070	13336
Ernakulam		23313	27465
Trichur		12000	13352
Palghat		9001	9414
Kozhikode		19513	21091
Cannanore		9205	10716

11.8 The occupational distribution of employment seekers in Live Register of the Employment Exchanges as on 31-12-190 as given in the following table.

Sl. No.	0	No. of persons			
Dr. 140.	Occupational Division	Men	Women	Tota	
1	Total	119086	60393	179	
2	Professional, Technical and related workers	9683	13494	23	
3	Administrative, Executive and Managerial workers	530	229	•	
4	Clerical and related workers	6801	6699	135	
5	Sales workers	22	6		
6	Farmers, Fishermen and related workers	772	864	16	
7	Miners, Quarrymen and related workers	12			
8	Workers in Transport and communication occupations	6618	370	69	
9	Craftsmen, production, process workers and workers not elsewhere classified	14157	1136	152	
10	Service, Sports and recreation workers	4058	6941	109	
11	Workers not classified by occupation	76433	30654	1070	

11.9 The quarterly indices of employment, published by the D ctorate of National Employment Services, Kerala shows that priv sector employment has been declaining while public sector employment maintains an upward trend. The indices of employment the public and private sectors are presented in the following tail

Indices of Employment

(Base 31-3-1966=100)

Period	Private sector	Publicsector	Combined
31-3-1966	100.0	100.0	100.00
31-3-1966	100.0	100.0	100.0
30-6-1966	99.9	101.5	100.2
30-9-1966	100.2	101.9	100.8
31-12-1966	96.6	103.3	99.1
31-3-1967	96.5	103.1	98.9
30-6-1967	97.3	1 03 .5	99.6
30-9-1967	97.6	104.2	100.0

Note: 1. Public sector has been completely covered. In the private sector coverage is restrict to plantations engaging 25 or more workers and establishments engaging 10 or more workers in the non-agricultural sector. Coverage in construction activities is a complete.

2. Source-Directorate of National Employlent Services.

- 11.10 Two studies—one on Medical and Public Health personnel and the other on Engineering personne—conducted by the Bureau of Economics and Statistics give a picture of the employment position among Engineering and Medical personnel. These studies are subject to the following limitations.
 - (a) The effect of migration has been totally ignored and
 - (b) As regards Engineering personnel, ratios relating to Employment of Engineers to investment made, worked out for all India have been adopted for Kerala also.

11.11 The estimated number of Engineering Graduates (including post-graduates and above), Diploma holders and craftsmen employed at the end of the Third Five Year Plan period and the estimated unemployment during the period 1965-66 and 1970-71 is as given below:

	Category of personnel	Estimated No. of persons employed at the end of the Third Plan 1965-66	Estimated No. of unemployed during 1965-66	Estimated No. of surplus persons unemployed during 1970-71
	(1)	(2)	(3)	(4)
1.	Engineering graduates (including post-graduates and above)	2200	1350	4150
2.	Diploma holders	4000	5000	12400
3.	Craftsman	13400	16000	35800

The above table shows that there is acute unemployment even among technical personnel like Engineers.

11.12 With regard to Medical and Public Health personnel, the estimated number of persons employed at the end of the year 1965-66 is given below:

Category of personal			٠,	Estimated No. of qualified persons employed at the end of 1965-66
1.	Doctors (Modern Medicine)	•	_	2600
	Dental Surgeons			100
3.	General Nurses			1800
4.	Auxiliary Nurse/Midwives			2000
5.	Pharmacists			1100
6.	Laboratory Technicians			200
	Radiographers and X'ray technicians			70

In addition to the above there are about 2200 qualified Ayurvedic practitioners available in the State.

11.13 The requirement of Doctors during 1966-1971 in the public sector as furnished by the Director of Health Services and the Principals of Medical Colleges is nearly 900. As against this requirement the out-turn of Doctors by 1971 is estimated to be 1900 from all the Medical Colleges in the State. Thus nearly 1000 Doctors will have to find employment outside the public sector. Some of them may get employment in the private sector and others will seek employment outside the State. Even then there is a possibility that some doctors may be unemployed during the Fourth Plan period. During this period a number of qualified Ayurvedic practitioners also will come out from the 3 Ayurveda Colleges in the State. Thus even among the Medical personnel, there may be unemployment during the Fourth Plan period.

CHAPTER XII

PRICES AND COST OF LIVING

The year 1967 witnessed a further deterioration of the price situation in the State. Prices of almost all food articles and other basic consumer goods have moved up resulting in a further increase in the cost of living index by 56 points for the State. During the year the wholesale price index of agricultural commodities for the State registered an increase of 23 points.

The experience of the past decade of planning in India has been one of rising prices. The general index of wholesale prices (All India—base 52-53=100) moved up from 107.2 in April 1957 to 214.9 in November 1967 which means a rise in the price level at an average annual rate of 10%. It is also noted that the five years of the III Plan period witnessed on the whole, an increase of 32% in the wholesale price index for all commodities. A large proportion of this price rise was caused by the increase in prices of food articles (41%). During the period from January to November 1967 the All India wholesale price index recorded an increase of 8% and consumer price index 10%.

The casual factors in the price increase are numerous. Shortages in agricultural production especially of food grains and the built in weaknesses of the distribution system were the basic factors on the supply side. The rising demand coupled with the stagnant or declining production naturally led to rising prices. Deficit financing and unplanned credit creation were also responsible for the price increases. The increase in Government expenditure had also its impact on the price level.

Consumer Price Index Numbers:

12.3 The average working class consumer Price index number for the State which stood at 673 during 1966 moved up to 729 during 1967 exhibiting a rise of 56 points. The increase was accounted for mainly by the commodities included in the food articles group where the order of increase was 53 points. The average consumer price index numbers for the State for the last seven years are furnished below (See also Appendix 12.1).

Average Working Class Consumer Price Indices for Kerala

Average Index J
. 478
. 484
501
560
614
673
729

- (J Average of the 12 Centres excluding Kozhikode)
- 12.4 From 478 in 1961, the index has risen to 729 by 1967 thereby registering an increase of about 53%. Average annual rate of increase worked out to 9%.
- 12.5 Except for an increase of 15 points during February, 1967 the average index for the State maintained more or less a steady trend till April 1967. A hardening tendency was noted during the next three months. From 707 in April, the index moved upto 743 by July after which it fluctuated within narrow limits during August and September.

The rise was mainly due to the enhanced prices of rice, pulses, coconut oil and coconut. The index continued its upward movement the reached the maximum value viz., 758, during November 1967 as against 693 during the corresponding period of the previous year (vide Table 12.2 in the Appendix). From the middle of the year the State Government had to cut down the ration supply of rice by 50%, due to abnormal fall in the arrival of rice from outside the State, which resulted in skyrocketing of the open market price of rice. Pulses maintained higher levels mainly due to the restrictions imposed 1 the inter-state movement of the community.

ing the year under review the All India working class consu. Price Index displayed a continuous upward movement regist and an increase of 10% between January—October 1967 as is evident from the table given below. The index which stood at 192 in October 1966 has moved upto 217 by October 1967 recording a rise of 13%. This was mainly due to the increase in the prices of articles in the food group. Between 1961 and 1967 the index rose by 64% in a cating an average rate of 11%.

Average working class Consumer Price Index Numbers for India

(Base 1949 = 100)

Year	Average Index
1961	126
1962	130
1963	134
1964	153
1965	166
1966	184
1967 (Upto October)	207

The index numbers for all India and some selected towns are given in table 12.3 in the appendix.

Wholesale Price Index for Agricultural Commodities:

12.7 The wholesale price index of agricultural commodities for the state as it stood during December 1966 and 1967 is given below. The index for all crops which stood at 176 during December 1966 moved upto 199 points (13%) indicating a steady increase in the general price level. Among the food crops molasses registered an increase of 63% due to high demand and disruption in the arrival from outside the State.

Wholesale Price Index of Agricultural Commodities (Kerala)
(Base 1952-53=100)

Sl. No.	Items	1967 December	1967 December	Percentage variation
(1)	(2)	(3)	(4)	(5)
1	Rice	151	156	+3.3
2	Molasses	184	299	+62.5
3	Condiments & Spices	151	148	2.0
4	Fruits & Vegetables	176	199	+13.1
5	Food crops	157	166	+5.7
6.	Oil seeds	250	316	+26.4
7	Plantation Crops	122	117	-4.1
8	Non-food Crops	211	256	+21.3
9	ALL CROPS	176	199	+13.1

The fair price of rice registered only slight improvement. The index for fruits and vegetables had firmed up by 13%. In contrast the indices of condiments and spices declined moderately on account of the downward trend shown by pepper, arecanut and cardamont Among the non-food crops the index for oil seeds reflected per ceptible gain (26%) ever the previous year, which was the result

of the high price of coconut. Plantation crops turned easy (-4%) under the impact of the general industrial recession in the country.

- 12.8 The average wholesale price index of agricultural commodities for the State for the last few years is given in Table 12.4 in the appendix. The general index which stood at 127 during 1961 advanced steadily and reached the level of 188 during 1967. Comparatively sharper had been the increase registered by the non-food crops which moved from 132 in 1961 to 226 in 1967. During the same period the indices of food crops, where the open market price of rice has not been taken into account, moved up from 122 to 167 points.
- 12.9 Table 12.5 in the appendix shows the all India index numbers of wholesale prices from 1961 onwards. Though a close comparisom between the all India and State Indices has its limitation, arising from the difference in the combination of the commodities covered, the indentity of the trend, manifests in both, has to be taken note of. Due to the fact that the all India index for food crops reflected the open market price of cereals also, the index moved up more sharply.

Retail prices of essential commodities:

12.10 In Table 12.6 (vide appendix) is given a comparison of the retail prices of some important essential commodities of daily use as prevailed in December 1966 and 1967.

Rice

12.11. The food position in the State remained difficult during the year under review particularly in respect of rice.

The price of rice supplied through Fair Price Shops underwent an upward revision with effect from 15-12-1966 as the issue price was revised by the Government of India. However, the increase in price to the tune of 11 Ps. Kg. in the issue price of coarse rice has not actually been passed on to the consumers, instead the burden is being met by the State Government in full. The fair price of coarse rice ruled steady at this level till 31-12-1967. Upward devision of prices were effected in respect of medium, fine and superfine qualities of rice on 16-7-1967 and the revised rates were as follows:—

With	effect	from	16-7-1967

Item	Previous (Ps.)	Current (Ps.)
Rice medium	91	92
Fine	101	104
Super fine II	107	109
Super fine I	117	

- 12.12 Another important feature which requires special mention was the reduction in the quantum of supply of rice through Fair Price Shops, as a result of the disruption and reduction in the supply of rice by the Central Government. During the weeks ending 27-5-1967 and 3-6-1967 only 50% of the ration was distributed through fair price shops. Subsequently this was restored to 75% till 8-7-1967. Thereafter only 50% of the ration viz: 3 oz. per adult is being distributed which led to the shooting up of prices of rice in the open market.
- 12.13 During January 1967 the open market price of rice was Rs. 1.50 Kg. which was about 9% higher than that prevalent during the corresponding period of the previous year. The prices continued to rise till August 1967. The rates prevalent during July and August 1967 were higher than those during the corresponding periods of the previous year by 37% and 42%. At Trivandrum the prices which stood at Rs. 2.16 during the beginning of July rose to Rs. 3.00 Kg. by the 3rd week registering an increase of 43%. The corresponding percentage increases in respect of Quilon, Ernakulam and Kozhikode were 63, 63 and 80 respectively. By the end of August 1967 the prices declined and this easy trend is attributed to the harvest season and this trend continued till November 1967. Compared to the levels in December 1966 the closing rates were higher by 45%.

Other food articles:

12.14 Pulses in general hardened consequent on the imposition of inter-state movement restrictions by the producing states. Prices moved to the peak level by the middle of the year and showed a tendency to ease by the end of the year. The prices of corriander, chillies and onions declined to the order of 23%, 55% and 59% because of the mounting pressure of arrivals. In contrast tamarind prices went by 115% owing to tight supply position. Scarcity of sugar and the resultant increase in the demand boosted the prices of jaggery by 65%. Coconut oil had a gain of 32% because of firm suport from terminal markets. Coconut prices moved up in sympathy. Tapioca recorded an increase of 40% naturally due to the scarcity of rice. Coffee gained moderately. Prices of milk (cows) hardened by 14% and firewood by 37% during the year 1967.

Parity Index:

12.15 The parity index (i.e. the percentage ratio of prices received to prices paid by the farmers) is an indicator of the farmer's terms of trade. In otherwords, it is a parameter of the extent to which rising prices for their products benefit agricultural classes. Thus the farmer's economic position at any point of time could be assessed by the differential rates of rise in the indices of prices received and paid by farmers. In short, the index is a positive and specific

mdicator of the changing price situations faced by the farmers with respect to the prices of the produce they sell and the prices of those commodities they purchase.

12.16 The parity index for 1967 was 103 as against 101 in 1966. Thus the farmer's terms of trade oscillated to his advantage in 1967. The subjoined table shows the parity indices for the past few years.

Index Numbers of Parity between Prices received and paid by the Farmers (Kerala)

(Base 1952-53=100)

Year '			Index Number	s	
1 6 47	Prices received	Domestic expenses	Cultivation cost	Prices paid	Parity
(1)	(2)	(3)	(4)	(5)	(6)
1961	109	122	123	122	90
1962	113	124	136	130	87
1963	110	127	143	135	82
1964	124	143	151	147	84
1965	175	156	171	163	107
1966	184	172	196	183	101
1967	210	186	222	203	103

12.17 The above table shows that the parity index which stood at 90 in 1961 gradually declined to 84 in 1964. This leads us to conclude that the rate of increase in respect of domestic expenditure and cultivation cost has been much faster than that of the prices of the commodities sold by farmers. In otherwords, the terms of trade was moving downwards, of course to the disadvantage of the farmers.

the terms of trade marked an upwards swing at a rapid rate reaching the peak of 107. But in 1966 the index has declined to 101. During 1961 the index of domestic expenditure (186) and the index of cultivation cost (222) taken together which formed the index of prices paid by the farmers worked out to 203 while the index of prices received was 10 leading to a parity index of 103.

COMMODITY REVIEWS

Black Pepper:

12.48 During 1967 prices of black pepper suffered a set back at all the producing centres in the State. The extent of decline was the order of 10% at Nedumangad (Thekkan)

(Palai variety), 9% at Cochin and 8% at Kozhikode (Wynadan) compared to the 1961 prices the 1967 prices have been higher only by 3%.

Ginger:

12.20 In 1967 the quotation at Cochin and Kozhikode exhibited a slight improvement viz. 3% and 5% respectively over 1966, eventhough there was a mild setback at Alleppey (-1%). Prices reached the peak level during the period from May to November 1967 on account of increased demand from abroad. Compared to the peak price-level in 1965, the price during 1967 was much lower on the average.

Lemongrass Oil:

12.21 The upward movement of lemongrass oil witnessed in 1966 was maintained in 1967 also. Compared to the position in 1966, the 1967 prices increased by 27% at Cochin, 24% at Alwaye and 16% at Kozhikode. Due to fall in production market arrival of the commodity has thinned down. The average price in 1957 was lower by about 5% compared to the peak price in 1961.

Cardamom:

12.22 Cardamom which was languishing for some years gained strength in 1965 and maintained the position in the subsequent year as well. This was the result of poor crops in India which holds a virtual monopoly of the commodity.

Rubber:

- 12.23 The year 1967 witnessed a steady fall in the prices of natural rubber and it posed a serious situation for the rubber growers in Kerala. Compared to the position in 1966 the rubber prices have declined by 32% at Punalur and Kottayam and 29% at Kozhikode. The present decline in the prices of natural rubber has been due to:
 - 1. the untimely import of natural rubber during the peak period of production in the country
 - 2. the decline in the off-take of rubber by big manufactures
 - 3. the higher quantity of imports than what was needed
 - 4. the increase in stock of natural rubber with dealers and estates as a result of increased production during the year.

Coir:

12.24 During 1967 the Arattupuzha variety of coir registered an increase of about 18% at Alleppey. At Cochin the Parur thin variety

of coir yarn showed a rise of 11% while at Kozhikode, Beypore ariety improved by 4% during the period.

Tea

- 12.25 Tea is foremost among the export items of Kerala and the second most important cash crop of the State in terms of net value contributed. Production of tea has increased remarkably during the last two years. But India's tea exports have been declining.
- 12.26 During 1967 the average wholesale price of tea at Mattancherry was lower by about 9% compared to the average price for 1966. During the period from January to June 1967 the prices of tea stayed steady at the low level of Rs. 4.08 per Kg. From the month of July onwards a gradual upward movement was noticed in the price level reaching the quotation of Rs. 5.00 per Kg. in December 1967.

Coffee

12.27 During 1967, the price of coffee has shown a downward trend. The quotation which stood at the high level of Rs. 6.05 per Kg. at Kozhikode in January 1967 progressively declined at Rs. 5.40 per Kg. in June 1967 and receded further to Rs. 5.00 per Kg. in December 1967 showed a modest rise of 1% over the 1966 prices.

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APPENDIX—1.1

Charges in the Index Number of Industrial Production 1965-and 1966

		(Base	: 1956100)
Industry	1965	1966	% change of (2) over (1) & (3)
(1)	 2	3	• 4
General Index	 136.9	191.6	+2.5
Cotton Textiles	 123.3	119.9	-2.8
jute manufactures	125.7	105.3	-20.4
Gement	 211.2	220.7	 +9.5
Finished steel	 332.4	327.9	-4.5
Paper and paper products	 255.4	281.7	+26.3
Coal	 173.4	176.0	+2.6
Rubber products	 218.0	218.0	00
Electricity	 326.5	355.3	+8.8
Automobiles	 225.9	220.5	-2.4

APPENDIX—1.2

(i) Index Number of Wholesale Prices

(Base 1952-53=100)

Last week of	Food articles	Liquor and tobacco	Fuel, Power, light and lubricants	Manufac- tures	All commo dities
(1)	(2)	(3)	(1)	(5)	(6)
1962-63	123.5	117.0	203.t 201.56	129 -	127.4
1964-6 5	153.7	138.4	797 40	1	151.0
1965-66	175.3	1 27 .5		3	174.0
966-67	217.6	127	349.26 Z 4392.35 •	.5	202.7

(ii) Working Class Consumer Price Index

(Base 1949=100)

Monthly average or months.		All items	Food
Financial Year			
1955-56	• •	96	94
1956-57		107	108
1957-58	• •	112	111
1958-59		118	121
1959-60		123	1 26
1960-61		124	125
1961-62		127	126
1962-63		131	131
1 963-64		137	138
1964-65		15 7	162
1965-66		169	174

APPENDIX-1.3

Inflow of foreign Investments into the Private Sector during 1956-62

(Rupees in Crores)

	1956	1957	1958	1959	1960	1961	1962
A. Private Sources (not inflow)	23.8	20.8	2.5	10.2	51.7	28.1	29.7
1. Gross inflow	30.2	26.8	28.1	25.7	63.2	35.6	38.7
(i) Retailed carnings	19.2	9.5	9.1	14.6	14.1	15.8	7.8
(ii) Cash inflow	3.1	2.8	1 .8	3.3	6.2	4.0	5.0
(iii) Non-cash inflow	8.5	11.4	14.2	7.8	43.0	15.8	25.8
2. Outflow	7.0	0.9	25.5	15.5	11.5	7.5	0.6
B. Official Sources (net inflow)	12.1	32.9	26.2	10.0	(—) 1.4	16.8	10.7
(i) Gross inflow	12.1	32.9	26.4	12.6	5.2	25.1	22.8
(ii) Outflow	1	:	0.3	2.6	9.9	8.3	12.1
vs inflow into the private sector	42.9	59.7	54.5	38.3	68.4	60.7	61.5
[№] 0∰. 203 203 344	7.0	0.9	25.7	18.1	18.1	15.8	21.1
5. 1. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	35.9	53.7	28.7	20.2	30.3	44.9	40.4

clude foreign investment in banking and insurance companies. N.B.

Source: Reserve Bank of India Bulletin (April 1966, P-264).

[·] has been computed, wherever possible, by eliminating valuation changes.

APPENDIX-1.4

External Assistance Received by India

Authorisation and Utilisation

(In Million s of U. S. Dollars)

	Aut	horised upto	Authorised upto March 1967		~	Utilised upt	Utilised upto March 1967	
	Loan	Grants	PL.480 etc.	Total	Loan	Grants	PL.480 etc.	Total
	1890	:	:	1890 (13.2)	1433	:	:	1433
. A.	3039	359	3880	7278 (50.7)	2502	344	3426	6272 (57.5)
U. S. S. R.	1362	10	:	1372 (9.6)	641	10	:	651 (6.0)
West Germany	686	10	:	994 (6.9)	798		:	803
United Kingdom	865	4	:	869	735	က	:	738 (6.8)
Japan	391	:	:	391	259	:	:	259
Others	1044	518	:	15 6 2 (10.8)	324	434	:	758 (6.9)
Total	9580	988	3880	14356 (100.0)	6692	962	3426	10914 (100.0)

.Vole:—Figures in brackets are in percentage to the Total.

Source: Reserve Bank of India, Report on Currency and Finance 1966-67.

APPENDIX-1.5

Aggregate External Assistance Received by India
(In Million s of U.S. Dollars)

	Loans	Grants	PL. 480/665 aid and Third country curr- ency assistance	Total
Authorisation				•
1. Upto the end of the First Plan	477	290	36	803
2 During Second Plan	2 69 1	254	2374	5319
3. During Third Plan	4937	269	946	6152
4. During 1966-67	1 47 5	83	524	2082
Total	9580	896	3880	1 4356
Utilisation				•
1. Upto the end of the First Plan	263	147	11	423
2. During Second Plan	1522	337	1144	300 3
3. During 1966-67	897	9 7	480	1 47 4
Total	669 2	79 6	3416	10914

APPENDIX—2.1

Density of population and percentge variation in the various

States of India

State		Population in 1961 in lakhs	Density per Sq. Km.	Percentage increase 1951-6
Andhra Pradesh	••	359.83	131	15.65
Assam	• •	118.73	97	34.4
Bihar		464.56	268	19.78
Gujarat		206.33	112	2 6.8 8
Jammu and Kashmir		35.61	26	9.44
Kerala		169.04	435	24.70
Madhya Pradesh		3 23.7 2	, 74	24.1
Madras		336.87	259	11.85
Maharashtra	• •	395.54	129	23.60
Mysore		235.87	123	21.57
Orissa	• •	175.49	/ 113	19.82
Punjab		203.07	166	25 .8 6
Rajasthan		201.56	59	26.20
Uttar Pradesh		737.4 6	250	16.66
West Bengal		3 49 .26	394	32.79
India		4392.35	• 138	21.50

APPEND/X-2.2

DenSity of population in the DiStrictS of Kerala

District		Population in 1961 (lakhs)	Density per Sq.Km
Trivandrum		17.45	798
Quilon	••	19.41	410
Aleppey		18.11	988
Kottayam		17.33	273
Ernakulam		18.60	557
Trichur		16.40	557
Palghat	••	17. 7 7	346
Kozhikode		26.17	393
Cannanore	• •	17.80	314
State		169.04	435

APPENDIX—2.3

Estimates of State Domestic Product (Kerala) at factor cost by industry origin (at 1960-61 prices)

50-51 as base 55-56 as base 103.8 105.4 107.6 100.0 104.7 109.6 110.2 8 (Rupees in Crores) Per capita income Index 105.9 110.9 109.9 111.6 0.001 114.0 116.8 116.1 0 248.95 263.63 275.96 273.58 277.86 283.67 290.68 288.95 RS. 9 (State income) Net domestic 334.19 395.29 462.16 468.46 486.43 507.72 531.89 540.54 product (5) 119.74 96.76 203.70 152.86 161.99 172.69 180.92 192.31 Services 4 Mining & Industries 60.74 68.30 68.98 70.35 54.05 71.63 75.80 78.21 (3) Agriculture 182.18 255.18 214.81 240.99 237.49 243.39 263.79 258.63 (5)1955-56 1962-63 1963-64 1964-65 1965-66 1950-51 1961-62 1960-61 Year Ξ

APPENDIX-2.4

Estimates of State domestic product (Kerala) at factor cost by industry origin (at current prices)

				(R	(Rupees Crores)	
Tear	Agriculture	Mining &	Services	Net domestic	Per capit	Per capita income
		Car Meman		(State income)	Rupees	Index 55-56 as base
(1)	(2)	(3)	(4)	(5)	(9)	(7)
1955-56	161.17	58.15	102.68	322.00	214.75	100.0
1960-61	240.99	68.30	152.86	462.16	275.96	128.5
1961-62	253.89	75.16	165.16	494.21	288.62	134.4
1962-63	259.82	80.33	179.85	520.00	297.04	138.3
1963-64	284.50	83.48	188.94	556.93	311.17	144.9
1964-65	372.16	93.34	210.76	676.26	369.58	172.1

APPENDIX-2.5

Conventional estimates of domestic product at factor cost by Industry origin (All India) (at 1948-49 prices)

(Rupees Abja)

	Agriculture	Mining &	Services	11	Net natoinal	Per capita income	ncome
		Tradestraes		prounci (no	(national income)	Rupees	Index
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)
1950-51	43.4	14.8	30.5	88.7	88.5	247.5	100.0
1955-56	50.2	17.6	37.0	104.8	104.8	267.8	108.2
1960-61	59.0	21.1	47.7	127.8	127.3	293.3	118.5
1961-62	59.1	22.1	50.1	131.1	130.6	294.0	118.8
1962-63	57.9	23.0	53.0	133.9	133.1	291.9	117.9
1963-64	59.7	24.4	56.5	140.6	139.7	299.2	120.9
1964-65	65.1	25.3	60.7	151.1	150.0	313.7	126.7
1965-66	57.2	26.6	64.0	147.8	146.6	299.4	121.0

Abja-100 Crores.

Nors:—The estimates presented are at 48-49 prices and are therefore not comparable in absolute terms with the Kerala estimates at constant (1960-61) prices presented in table 1.3.

APPENDIX-2.6

Conventional estimates of domestic product (all India) at factor cest by industry origin (At current prices)

(Rupees Abjsa)

Year		Agriculture	Mining &	Services	Net domestic		Per capita income	
			Industries		proauci (national income)	Rupees	50-51 as base 55-56 as base	5-56 as bas
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)
1950-51	48.9	15.3	31.3	95.5	95.3	266.5	100.0	104.5
1955-56	45.2	18.5	36.1	99.8	8.66	255.0	95.7	100.0
1960-61	6.89	26.0	47.0	141.9	141.4	325.8	122.3	127.8
1961-62	9.69	28.8	50.3	148.7	148.0	337.7	125.0	130.7
1962-63	70.0	30.8	54.0	154.8	154.0	368.6	126.7	132.4
1963-64	81.7	33.3	58.0	173.0	172.1	427.3	138.3	144.5
1964-65	105.3	36.7	63.4	205.4	204.3	415.3	160.0	167.6

Abja-100 Crores.

APPENDIX—2.7

Indices of net domestic/National/Percapita product by Industry origin at current prices

(Base 1955-56-100)

	Sectoer	Region			Period	po		
		•	1955-56	1960-61	1961-62	1963-63	1963-64	1964-65
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)
-	1. Agriculture	Kerala India*	100.0	149.5 152.4	157.5	161.2 154.9	176.5	230.9
2	2. Mining and Industries	Kerala India	100.0	117.5	129.3	138.2 166.5	143.6 180.0	160.5 198.4
ຕຸ	Agriculture, Mining and Industries combined	Kerala India	100.0	141.0 149.0	150.0 154.5	155.1 158.2	167.8 180.5	212.3
4.	Services	Kerala India	100.0	148.9 130.2	160.8	175.2	184.0	205.3
'n	5. Net domestic products	Kerala India	100.0	143.5 142.2	153.5 149.0	161.5 155.1	173.5	210.0
فه	6. Net National Product	India	100.0	141.7	148.3	154.3	172.4	203.8
	Per capita Income	Kerala India	100.0	128.5 127.8	134.4 130.7	138.3 132.4	144.9 144.5	172.1 167.6
•								

Conventional series

APPENDIX-2.8

Indices of Net Domestic/National/Percapita Product by Industry Origin at constant prices

(Base 1950-51—100)

	Contain					Pe	Period)			
	Setur	region –	1950-51	1955-56	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66
	(1)	(2)	(3)	(4)	(5)	(6)	(7,	(8)	(6)	(10)
 :	1. Agriculture	Kerala* India**	100.0	117.9	132.3	130.4	133.6	140.1	144.8	142.0
8	Mining and Industries	Kerala India	100.0	112.4	126.4 142.5	127.6 149.3	130.2	132.5 164.9	140.2 171.0	144.7
တံ	Agriculture, Mining & Industries combined	Kerala India	100.0	116.6 116.5	130.9 137.6	129.7 139.5	132.8 139.0	138.3 144.5	143.8 155.3	142.6 144.0
4.	Services	Kerala India	100.0	122.2	156.1 156.4	165.4	176.3	184.7 185.3	196.3 199.0	208.0 209.8
5.	Net domestic product	Kerala India	100.0	118.3	138.3 144.1	140.2 148.0	145.6 151.0	151.9 158.5	159.2 170.4	161.8 166.6
9	Net National Product	India	100.0	118.4	143.8	147.6	150.4	157.9	169.5	165.7
7.	Per capita income	Kerala India	100.0	105.9 108.2	110.9	109.9 118.8	111.6	114.0	116.8 126.7	116.1 121.0

* At 1960-61 prices

^{**} At 1948-49 prices conventional series.

APPENDIX—2.9

Net Domestic product by Industry Origin At constant prices-Percentage Distribution

I		S. e. e.	D. S. S. S.					Period			
		Sector	- magau	1950-51	1955-56	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66
Į l		(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)
	≓	1. Agriculture	Kerala* India**	54.5 48.9	54.3 47.9	52.1 46.2	50.7 45.0	50.0	50.3 42.5	49.6	47.8
	5	2. Mining & Industries	Kerala India	16.2 16.7	15.4	14.8 16.5	14.7	14.5	14.1	14.2 16.7	14.5
	က	 Agriculture, Mining & Industries combined 	Kerala India	70.7	69.7	66.9	65.4 61.8	64.5 60.4	64.4 59.8	63.8 59.8	62.3 56.7
9	4.	Services ·	Kerala India	29.3 34.4	30.3 35.3	33.1 37.3	34.6 38.2	35.5 39.6	35.6 40.2	36.2 40.2	37.7 43.3
	ນ	5. Net domestic product	Kerala India	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ı	6	6. Net National product	India	8.66	100.0	9.66	99.5	99.4	99.4	99.3	99.2

* At 1960-61 Prices.

^{**} At 1948-49 Prices Conventional series.

APPENDIX-2.10

Net Domestic Product by Industry Origin at Current prices

Percentage Distribution

	Confee	Dage			Period			
	SOCIO DE CONTRA	. Jakan	1955-56	1960-61	1961-62	1962-63	1963-64	1964-65
	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)
1.	. Agriculture	Kerala India*	50.0	52.1	51.4	50.0	51.1	55.0
2	2. Mining and Industries	Kerala India	18.1	14.8 18.3	15.2	15.4	15.0 19.3	13.8
છ	. Agriculture, Mining and Industries combined	Kerala India	68.1 63.8	6.99	66.6	65.4 65.1	66.1	68.8 69.2
4.	. Services	Kerala India	31.9 36.2	33.1 33.1	33.4 33.8	34.6 34.9	33.9	31.2
5.	. Net domestic product	Kerala India	100.0	100.0	100.0	100.0	100.0	100.0
9	. Net National product	India	100.0	9.66	99.5	99.5	99.5	99.5

* Conventional series.

TABLE-3.1

			A.	Average m	lonthly r	ainfall i	monthly rainfall in Kerala 1966-67	9-9961			(M)	(Millimetre)	
District	July 1966	Aug. 1966	.Sep. 1966 ·	0 <i>i</i> a. 1966	Nov. 1966	Dec. 1966	Jan. 1967	Feb. 1967	March 1967	April 1967	May . 1967	June 1967	<i>Total</i> 1966-67
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)
Trivandrum	213.9	103.5	441.6	317.4	106.6	60.1	24.0	0.1	62.4	63.2	215.6	461.1	461.1 2123.5
Quilon	311.9	197.5	275.2	431.6	196.3	71.3	22.6	:	58.3	99.5	276.5	536.5	2477.2
Alleppey	370.6	165.5	435.0	387.1	383.2	31.6	12.0	:	13.8	109.4	371.4	642.8	2922.4
Kottayam	479.8	165.7	246.8	356.0	365.3	91.6	23.4	0.4	41.7	100.8	250.8	498.1	2628.4
Ernakulam	749.4	178.5	364.0	440.0	332.4	102.0	57.2	:	15.4	82.8	478.0	674.7	3474.4
Trichur	746.1	191.7	329.0	557.2	218.1	56.0	1.6	:	6.9	27.6	333.8	497.2	2965.2
Palghat	557.2	130.7	189.7	364.8	187.1	20.4	10.7	:	11.7	40.9	139.3	342.1	1994.6
Kozbikode	661.5	216.9	277.6	469.5	215.0	33.5	:	:	21.3	67.9	218.0	598.2	2774.4
Cannanore	752.1	320.2	219.2	345.9	192.5	8.1	3.2	:	1.4	39.0	178.7	714.8	2775.1
State average	538.1	185.6	308.7	407.7	250.1	52.7	17.2	0.1	25.9	9.69	274.5	551.7	2681.9

Total area and classification of area in each District of Kerala during the year ending 30th June 1967 TABLE-3.2

(Area in hectares)

District	Total				•	Classification of area	on of area			-		Total
	phical area ac- cording to village papers	Forest	Land put to non- agricul- tural uses	Barren and un- culti- vable land	Permannent pastures and other grazing	Land under misse- llaneous tree crops not included in net area	Culti- vable waste	Fallow (land fother than current fallow	Current fallow	Net area sown	sown more than once	area area
(1)	(2)	(3)	(4)	(2)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)
Trivandrum	216096	41559	15662	707	550	216		741	597	152303	63247	215550
Quilon	469051	210857	14979	11800	1300	2000	2560	2308	1384	221863	75319	297182
Alleppey	186790	513	Í1803	1102	250	6920	1789	1517	009	162296	63844	226140
Kottayam	626225	252964	16072	17591	3500	11355	18380	1050	1815	303498	47359	350857
Ernakulam	317428	55212	21299	5590	2000	3994	8646	2530	2255	215902	45719	261621
Trichur	294262	132376	15892	2667	7 500	1160	2710	437	1860	136660	77390	214050
Palghat	510424	99663	61324	22362	5000	30995	19631	3966	7798	259685	86054	345739
Kozhikode	661586	193756	32523	15045	2700	29012	25026	9289	5044	351604	40295	391899
Cannanore	576661	65932	45767	23573	12000	96190	26148	14540	5093	287418	31515	318933
STATE	3858523 1055832	1055832	235321	100437	7 27800	181842	105651	33965	26446	26446 2091229	530742	2621971

TABLE—3.3
Area and production of the various crops in Kerala

		4		1			
(A)	Casho	1965-66				1966-67	
34.340.	School	Area (Hectares)	Production (Tounes)	Average Yield (Kg./Hect.)	Area (Hectares)	Production (Tonnes)	Average Tield (Kg./Hect.)
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)
	Food Crops			\ 	\		
 (Rice	802329	997489	1243 **	799438	1084062	. 1356
7 %	Fulses	43312.	16901	390 .	43547	1/0/1 54909	392 5618
. 4	Depres	99695	21685	218	99695	21406	215
S	Ginger	11847	11190	945	11793	11054	937
9	Turmeric	4464	3766	844	/ 4443	3747	843
7	Cardamom	28684	1606	2 29	47026	1606	34
œ	· Betel nuts	64478	*1896	150144	71231	10683*	149976
6	Bananas and other Plantain	47779	361122	7558	45589	344896	7565
9:	Cashewnut	87366	98025	1122 %	90559	101607	1122
<u> </u>	1 aproca	223084	2032030	10410	24404/	2402000	10801
17	Other 100d crops Total food crops	1635326	::	::	1676822	· :·:	::
	Non-Food Caops						
	Graoundnut	15215	25220	1658	13745	23601	1717
. 2	Sesamum	11950	2365	198	12070	2400	199
en -	Coconut	586313	3293*		609583	3425	561
4.	Cotton	702	0933		C700	. 90 1 00.	٠,
.	Tobacco	CU/	911	1293	71/2	920	
0,1	Lea Coffee	234/0 23602	98134	932	7 95159	10513	
- Φ	Rubber	149634	46593	314	153357	504	
	Other non 1 Trops	81969	:	:	24886	٠.	
	ا ٔ ق	916018	:	:	945149		
	Total crepped area	2551344	:	:	7621971		
•].	-				

* Million muts
** Bales of 180 kg. each

TABLE-3.4

(Area in hectares) Statement showing the Offtake of Rice and Wheat Month-wise forling 30th June 1967

Month	w Go	Offiake rice in Tonnes		Mo	Offiake wheat in Tonnes	Area Total sown cropped
	1965	1966	1967	. 1965	1966	
January	65243	60950	72555	21918	31337	17510
February	64808	55799	62394	28165	21412	13289
March	72378	66816	67409	28542	20816	14941
April	71727	71833	66135	25346	18881	16557
May	76024	75612	55008	30136	21886	. 26012
June	75364	74790	53578	28507	27965	38526
July	91492	78607	44290	26284	32816	51859
August	96159	78750	39522	25775	33477	60702
September	78877	73153	36719	22168	26313	50360
October	70274	72937	37109	22449	23376	51936
November	69049	71986	36879	24025	20829	54182
December	75005	67273	41496	28560	23448	58740
Total	906400	848506	613094	311875	302556	454614

TABLE-3.5

Out-turn of Timber and Firewood

St. No.	Item	Unit	1960-61	1964-65	1965-66	1966-67
-	2	દ	4	5	9	7
-	A. Round logs	C.M.	223158	284662	437677	504442
	(i) Teak	C.M.	33587	30346	27875	36549
	(ii) Others	C.M.	189571	254316	409802	467893
	B. Sawn & squared Timber	C.M.	151	99	3474	129
	(i) Teak	C.M.	46	43	11	∞
•	(ii) Others	C.M.	105	13	3463	121
2	Round poles	Nos.	252340	249581	251019	422985(CIM)
က	Firewood	Tonnes	182253	137570	163255	257160
4	Sandal wood	Kgs.	7380	57137	76427	116171
℃ .	Outer slabs	Nos.	112	102	:	435
ø	Teak Kappukal	Nos.	:	350	:	11659
7	Ivory	Kgs.	709.9	773.1	165.4	318

TABLE-3.6

Revenue from Forests

(Rs. in lakhs)

ş		Rece	Recripts from the sale of			D.C1.	7. 0
1 ear	Timber	Fuel	Miner produce	Other receipts	Gross receipts	Kejunas	Net Kecripi
1	. 2	8	4	2	9	7	ω ·
1960-61	406.1	5.1	15.1	12.0	438.3	6.3	432.0
1964-65	482.7	6.9	10.7	26.9	527.2	3.6	523.6
1965-66	525.2	7.0	12.7	29.0	573.9	3.5	570.4
1966-67	601.1	8.3	(*):	60.1	669.5	3.9	665.6

(*) The recipts from miner produces during 1966-67 are accounted under "other receipts" in col. (5).

TABLE-4.1

State-Wise distribution of Rubber Holdings and Estates at the end of 1966-67

(Area in hectares,

I		Series	Small Growers Holding	vers Holdir,	26	Large Growers (Estates)	vers (Estate	(5)		Total	
		campo	Number of Units	Area	Average area of a Unit	Number of of Units	Area	Aterage area of a Unit	Number of of Units		Area Average are of a Unit
1 1		(1)	(2)	(3)	. (4)	(5)	(9)	(2)	(8)	(6)	(10)
	_	Kerala	80422	104756	1.30	593	56318	94.97	81015	161074	1.99
	2	Madras	1208	2952	2.44	41	5130	125.12	1249	8082	6.47
	က	Mysore	26	272	4.86	10	1572	157.20	99	1844	27.94
•	4	Andamans and others	2	24	12.00	က	236	78.67	ıC	260	52.00
		Total	81688	108004	1.32	647	63256	97.77	82335	171260	2.08

3

1966-67

		Revenue from	nue from . seties of Rubber in India	,
		Receipts rieties es	Total area under Rubber	Percentage of Col. 2 to Col. 3.
	Timber	Furl		
	c	(2)	(3)	(4)
7956-57		23.06	94.88	24
1960-61		46.56	129.91	36
1961-62		54.26	140.88	39
1962-63		58.71	146.15	40
1963-64		66.32	152.95	43
1964-65		70.19	155.33	45
1965-66		82.61	164.71	50
1966-67		93.63	171.33	55

TABLE—4.3 Consumption of Rubber in India

total and of ubber									
Gap between consumption production natural re	(7)	7823	35301	37196	38887	48609	40095	44562	48372
Production of natural rubber	(9)	23730	25697	27446	32239	37487	45616	50530	54818
Total consumption	(5)	31553	86609	64642	71126	81096	85711	95092	103190
Consumption of reclaimed rubber	(4)	2647	5453	6046	6850	7982	6986	9774	10913
Consumption of synthetic rubber	(3)	461	7397	10186	10723	11959	15285	21553	23592
Consumption of natural rubber	(2)	28445	48148	48410	53553	61155	61057	63765	68685
Year	(1)	1955-56	19-0961	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
	Consumption Consumption Consumption Total Production of of natural of synthetic of reclaimed consumption natural rubber rubber	Consumption Consumption Consumption Total Production of Gas of natural consumption natural rubber contuber tubber tubber (2) (4) (5) (6)	Consumption Consumption Gonsumption Total Production of Gas and Total Production of Ga	Consumption Consumption Gonsumption of reclaimed consumption natural rubber consumption of Froduction of Galactic of rubber rubber (5) (6) (6) (7) (8) (4) (5) (6) (6) (7) (8) (7) (7) (7) (7) (7) (8) (7) (8) (7) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	Consumption Consumption of synthetic rubber Consumption of reclaimed consumption Total rubber rubber Production of Galaction of Galaction of Galaction of Synthetic rubber Consumption ratural rubber Production of Galaction of Galaction of Galaction of Foundation rubber Consumption rubber Production of Galaction of Galaction of Galaction of Galaction rubber Consumption rubber Production of Galaction rubber Consumption rubber Production of Galaction rubber Consumption rubber Production of Galaction rubber Consumption rubber	Consumption Consumption of reclaimed rubber Consumption of synthetic consumption Consumption of reclaimed rubber Production of Gap consumption Productio	Consumption Consumption rubber Consumption of reclaimed rubber Total consumption of reclaimed rubber Production of Galactic consumption rubber Production of Galactic consumption rubber Can rubber Consumption of Factorimed rubber Production of Galactic consumption rubber Production rubber Production rubber Production rubber Production rubber Production rubber Producti	Consumption Consumption of rather at rubber Consumption of synthetic of reclaimed consumption rubber Total rubber consumption of feedamed consumption and rubber consumption of file for file	Consumption of natural rubber Consumption rubber Consumption rubber Consumption rubber Total rubber rubber Production of Gamed rubber Gamed rubber of rubber rubber Consumption rubber Production of Gamed rubber Consumption rubber

3|640

TABLE-4.4

Area under cultivation, total production and average yield per hectare of tea 1. in each State of India during 1964 to 1966

S S		Area	Area in Hectares		Producti	Production in '000 Kg.	, s	Average yie	Average yield per hectare in Kg.	in Kg.
	o. 51438	1964	1965	*996I	1964	1965	*9961	1964	1965	* 9961
Ξ	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)	(11)
"	Assam	166251	169659	172305	195726	181888	196681	1117	1072	1101
2	West Bengal	84830	85031	85648	89378	86979	85271	1054	1023	. K 001
(3)	Tripura	5288	5502	5537	2974	2646	2490	562	481	450
4	Bihar	534	476	476	55	39	65	103	82	.137
5	Uttar Pradesh	2012	1972	1972	704	612	419	350	310	.212
9	Punjab (Kangra)	3763	3763	3763	1070	1012	996	284	269	257
7	Himachal Pradesh	420	420	420	106	70	45	252	167	107
80	Madras	33029	33207	33709	41964	47344	48493	1271	1426	1439
6	Mysore	1789	1811	1811	1822	2218	2259	1018	1225	1247
10	Kerala	39958	39921	39615	38686	43567	44687	696	1001	1128
		337874	341762	345256	372485	366374	374806	1102	1072	1086

*Provisional

TABLE-4.5

Area and production of Tea according to the Sizes of Estates in Kerala during 1965-66

Sl. No.	Size of Estate (Hectares)	No. of Estates	Area in hectares	Production in Kg.	Average yield per hectare (Kg.)
(1)	(2)	(3)	(4)	(5)	(9)
	Upto 5 hectares	2287	1395	N.A.	N.A.
2	Above 5 hectares and below 50 hectares	66	1497	440128	294
က	Above 50 hectares and below 100 hectares	30	2236	1348677	603
4	Above 100 hectares and below 200 hectares	4.	4847	5384160	1111
5	Above 200 hectares and below 400 hectares	64	18310	22751572	1243
9	Above 400 hectares	22	1111	12573668	1131
	All	2536	39397	N.A.	N.A.

Note:—1. Number of estates and area in hectares relate to those on 31st March 1966.

2. Production in Kg. relate to calendar year 1965.

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TABLE—5,1
Marine Fish landings in Kerala (1966-67)

SI. No.	Chart a	1966-67		1965-66	
». <i>"No</i> .	Species	Quantity (in '000 tonnes)	%	Quantity (in '000 tonnes)	%
(1)	(2)	(3)	(4)	(5)	(6)
1	Oil Sardine	96.9	42.6	121.7	56.4
2	Other Sardine	19.1	8.4	8.2	3.8
3	Mackerel	9.6	4.2	3.2	1.5
4	Prawns	26.1	11.5	18.3	8.5
5	Shark and Dog fish	1.8	0.8	2.7	1.3
6	Skates & rays	0.5	0.2	0.4	0.2
7	Cat fish	8.2	3.7	3.3	1.5
8	Seer fish	0.8	0.4	1.8	0.8
9	Silver Bellies	7.1	3.1	5 .4	2.5
10	White Bait	2.0	0.8	2.6	1.2
11	Soles	4.4	2.0	7.1	3.3
12	Bonito or Tunny	1.7	0.7	1.6	0.7
13	Pomprets	1.0	0.4	0.9	0.4
14	Lactarius	1.4	0.6	0.8	0.4
15	Ribbon fish	4.3	1.9	0.6	0.3
16	Others	42.6	18.7	37.0	17.2
	Total	227.5	100.0	215.6	100.0

APPENDIX—6.1

Distribution of factories and number of workers for all industries together by State (1965)

ζ υ 3. Ε.	State	Total	
Sl. No.	State	No. of factories*	No. of workers
(1)	(2)	(3)	(4)
1	Andhra Pradesh	4184	236567
2	Assam	1278	82 34 1
3	Bihar	1856	161960
4	Gujarat	444 5	402698
5	Jammu and Kashmir	179	95 15
6	Kerala	1987	171452
7	Madhya Pradesh	2311	167127
8	Madras	5446	355568
9	Maharashtra	8776	845391
10	Mysore	2606	199978
11	Orissa	918	61 49 6
12	Punjab	3857	160182
13	Rajasthan	846	66627
14	Uttar Pradesh	3159	308621
15	West Bengal	5326	851 254
16	Andaman & Nicobar	15	2274
17	Delhi	1301	67455
18	Himachal Pradesh	30	2235
19	Tripura	58	1827
20	Pondicherry	107	11417
21	Goa, Daman & Diu	65	5560
22	Manipur	6	562
44	All India	48754	4171107

^{*}Coming under Census part of the survey.
Source: Annual Survey of Industries, 1965.

APPENDIX-6.2

Distribution of Working Factories in Kerala according to Employment as on 31-12-1967

		1 % 40		50 % 90		100 % 400		500 % 999	1	1000 & about	hore	State	
Sl.No.	Name of Industries		- }	3	- 1		1		، ا		,		,
		¥.	B	¥	B	Y	В	¥	В	¥	В	V	8
(E)	(2)	(3)	4	(2)	(9)	(2)	(8)	6)	(10)	(11)	(12)	(13)	(14)
_	Canning and preservation of fruits and	•			ı	•	(•	ć
c	vegetables	so.	45	:	:	ຄ	338	:	:	:	:	9	380
		2	28	:	:	6	290	:	:	14	1332	25	1650
ω·	Rice and other flour mills	4	23	4	73	9	173	က်	1162	:	:	107	1431
4 ' '	Sugar	:	:	:	:8	٠٠ <u>د</u>	330	7	700	:	:	S 0	1130
က ဟ	On milk Tea	:~	:2	47	76 76	23	3/4 820	129	808 804	:8	4235	126	5966
7	Cashew	:	:	' :	; :	; -	100	:	:	237	92552	238	92652
œ	Starch and other food articles except		1							,	,	į	
1	beverages	4	29	7	84	17	709	• 1	• !	12	1198	35	2058
6	Beedi and Cigar	:	:	:	:	15	368	$\tilde{5}$	1725	• 6	•	99	2093
10	Cotton Textiles	:	:1	•	• (24	526	-	964	213	12753	738	14243
	Knitting	 (د	2	8	∞	416	:;	:	• •	:	Ξ;	207
12	Con	7	31	:	:	:	:		887	133	2018	15	2830
	Other textiles		67.7	:	• 6	::	0	-	814	-	1193	4 5	2030
4;	Umbrellas	4.	240	4	93	21	327	• • •	1000	• • •		10	438
15	Saw mills Planood	4° C	2 2	:	:	ဂ ထ	703	33	7907	8	1601	7.45 13	1561
17	Other timber industries including	1	3	:	:))		:		}	
i	splints and veneers	:	:	:	:	28	857	139	3658	35	1475	202	2990
18	Paper mills	-	15	:	:	:	:		298	:	:	7	613
19	Paper Board, straw board and other		1			•	1			,		(0
	paper products	9	135	:	:	21	187	• [• (; ٦	1683	G (2005
20	Printing and binding	:	:	:	:	51	1103	127	7800	31	1293	503	7970
21	Rubber and Rubber products including			14	1	03	1624	17	660	67	1908	120	2576
00	rubber retreading	:	31	n	+/	9 %	202	1	3	1 rc	3953	107	4188
77	Aruncial manures	4	10	:	:	,	101	:	:	•		1	

(A)		1 to 49		50 to 99		100 to 499	66	500 to 999	666	1000 & above	above	State	
36.370.	Jvame of mausines	A	В	A	В	A	В	¥	В	A	В	A	В
$ \Xi $	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)	(14)
23	Pharmaceuticals	4	80	r,	223	12	478	:	:	:	:	21	781
94	Soan	-	59	' '		ŝ	248	co	916		, ,	7	1193
25	Other chemicals including markets	ıΩ	42	က	80	24	1053	22	564	12	1037	99	2776
56	Petrolium refineries	4	37	:	:	:	:	:	:	5	1060	6	1097
27	Bricks and Tiles	_	20	7	132	9	496	29	1552	183	11452	226	13652
28	Glass	:	:	_	20	_	310	:	:	:	:	2	360
29	Pottery China and earth-ware	2	65	_	28	5	404	:	:	:	:	∞	527
30	Cement	:	:	:	:	~	399	:	:	:	:		399
31	Basic metal industries	œ	98	7	131	33	234	က	267	11	1124	32	2142
32	Metal products except machinery												
	and Tranport equipment	9	83	12	150	19	541	4	1291	19	1078	100	3143
33	Agricultural implements	က	42	7	8	Ŋ	260	:	:	:	:	10	392
34	General and jobbing engineering	:	:	∞	160	56	928	49	1714	:	:	83	2832
÷ 35	Other machinery except electrical												
	machinery	œ	106	7	94	12	299	:	:	2	2096	24	2595
36	Electrical machinery	က	54	6	199	10	614	6	267	:	:	31	1434
37	Marine Engineering Buildings and												
	repairing	:	:	က	114	:	:	:	:	7	1041	10	1155
38	Repair of Motor vehicles	:	:	7	79	82	1786	38	865	16	1035	141	3765
33	Manufacture of Bicycles	7	32	7	20	7	102	:	:	:	:	9	204
40	Other industries not classified above	:	:	ω	54	52	1327	21	548	:	:	81	1929
.	Total	85	1231	132	2481	677	20045	096	27414	1129	149513	2983	200684
													1

4—Number of Factories.

B—Employment—Number of workers employed.

APPENDIX-6.3

District-wise distribution of Working Factories as on 31-12-1967

-								°			
\$; \$	Name of Industries	Trivandrum	יוטוי	Quilon		Alleppey	. 5	Kottayam		Emakulam	24.0
5		¥	В	¥	B	A	В	¥	89	¥	В
$ \mathfrak{S} $	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)	(11)	(12)
•	Canning and preservation of fruits and										
	vegetables	:	:	:	:	:	:	-	22	:	:
N	canning & preservation of usin & other sea foods	:	:	-	16	4	163	:	:	14	1332
ω .	Rice and other flour faills	:	:	:	:	:	:	:	:	4	73
4. rc	Sugar Oil mills	25	112		169	9 ₂	766	15	:09	: 87	293
94	Tes	ನ ಪ	194 3967	961	327	: '	6441	18 -	4235	L 4	1427
. ¢¢	Starch and other food articles except	2			7007	•		4	2	4	
(beverages	7	32	വ	255	6	153	,	81	81	\$
ص <u>د</u>	Beedi and Cigar	:	1075	:-	:3	:	:	:	:	ب د	100
3:	Cotton lextiles	- α	12/5		964	:	:	:	:	٥	6701
12	Antung	 -	15	: ;	•	150	3828	:-	:19	: 07	1190
13	Other Textiles	-	6	: :	: :		:	٠:	:	-	814
7	Umbrellas	:	:;	: (• 6	က	31	- (17
12	Saw mills	7	17	19	320	7	11	8	271	₹-	00 40 c
10	Plywood Other Timber industries including	:	:	-	103	:	:	ဂ	3/0	-	77
•	splints & veneers	8	353	37	696	7	155	13	349	21	682
81	Paper mills	:	:	-	298	:	:	:	:	:	:
19	Paper Board, straw board and other					6	41	6	4	,	
20	Printing and Binding	31	1293	12	402	17	158	31	810	37	703
71	Rubber and rubber products including	7	304	18	423	4	248	42	1208	17	099
22	Arti Pha	:8	:14	:-	20:	:-	24	1 3	204 15	52	3953 77
I											

Canning and preservation of fruits and vegetables control of the first set	در	Name of Industries	Trichur	hur	Palghat	hat	Koz	Kozhikode	Cannanore	more	S	State	
grand preservation of fruits and grand grands gran			77	В	A	В	ম	В	¥	В	₹.	В	
getables and preservation of fruits and set and preservation of finits and set and preservation of fish & 1 12	[[(2)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	
getables 3 338 2 20 6 380 getables 3 338 2 20 6 380 gy & persevation of fish & 1 1 12 5 127 5 1650 6 380 nd other float mills 31 559 62 603 6 173 4 23 107 1431 1b. 68 531 9 6 20 6 172 9 80 280 2122 1b. 10 1993 1 7 960 6 143 24 76 66 2038 and other food articles 1 17 12 19 24 76 66 2038 and Other food articles 1 16 27 960 6 143 47 443 47 Tevalle 1	نا	Janning and preservation of fruits and											
her sea breakvation of rish & 1 12 5 127 25 1650 her sea breakvation of rish & 1 12 5 127 25 1650 her sea broads and other flour mills 31 559 62 603 6 173 4 23 107 1431 315 115 115 115 115 115 115 115 115 1		vegetables	က	338	:	:	C1	20	:	:	9	380	
15 15 15 15 15 15 15 15	_	canning & preservation of ush & other sea foods	-	12	;	;	ሆ: -	197			95	1650	
156 156 157 156 157 156 157 156 157	\simeq	ice and other flour mills	31	559	62	603	9	173	. 4	23	107	1431	
the control of the co	ະທີ່	ugar	• • • • • • • • • • • • • • • • • • • •	. 6	 ¢	390 70	::	: 6	:	:8	က	1156	
except beverages claimed other food articles claimed other food articles claimed other food articles claimed other food articles claimed other	ر	Jil mists	- D	931	D) 00	146	7 1.	2/2	ກ ແ		1360	2122	
1	ت ۱	ca ashew	10	1993	, ;		÷ 07	1304	טינ	1328	238 238	99659	
Second Exercises 1 17 17 19 19 3 301 35 2058 and Cigar	120	tarch and other food articles	,)	•	:	>		>		3 .	1	
Land Cigar		except beverages	_	17	:	:	12	1198	3	301	35	2058	
ing cyclic. Trevtile. Trevtile.	Ã	ecdi and Cigar	4	116	27	096	Ø	143	24	765	99	2093	٠.
ing r Textiles r Textiles relan r Textiles relan r Textiles r Taxtiles	\mathcal{C}	otton Textiles	9	2489	_	227	23	249	193	7510	238	142434	1:
r Texuiles r Texuiles r Texuiles r 1 1193 11 881 146 relias Mills Mills Mills Mills Mills Mills Sord Tr Timber including Sord Tr Timber including Sord Tr Timber including Sord Tr Mills Tr Moord	14	nitting	_	163	:	:	27	98	!~	253	11	204	13
industries including 4 93 10 357 18 48 602 18 168 66 1697 32 716 245 2 228 1 47 3 792 13 industries including 36 621 35 1475 27 823 18 563 202 traw board and other 1 30 1 20 1 1683 2 187 9 sinding blober products including 16 277 5 74 20 267 3 115 132 treading uses 1 20 2.55 115 132 1 30 2.23 2.64 777 111 159 209	Ŭ	oir	:	• •	:	:	=	881	:	:	146	5930 • 7	
ther industries including 4 93 10 357 18 48 602 18 168 66 1697 32 716 245 13 792 13	0	ther Textiles		1193	:	:	-	20	:	:	4	2036	
her industries including 2 228 18 168 66 1697 32 716 245 13 792 1		mbrellas	4' ;	93	• •	• (0	357	• •	:	82	498	
36 621 35 1475 27 823 18 563 202 1 15 22 35 576 11 384 24 777 11 159 209 ding 16 277 5 74 20 267 3 115 132 10 223 2 255 21	Š	aw Mills	48 8	602	<u>8</u>	168	9	1697	32	716	245	43914	
36 621 35 1475 27 823 18 563 202 1 15 2 ain 1 30 1 20 1 1683 2 187 9 ding 16 277 5 74 20 267 3 115 132 ii 223 2 96 2 31 21	<u>a</u> (poowal	2	5.78	_	4,	:	:	က	792	13	1561	
d, straw board and other c, straw board and other d, straw board and other 1 30 1 20 1 1683 2 187 9 roducts d Binding 1 rubber products including 1 to 277 5 74 20 267 3 115 132 anures 1 2 31 10 2 31 10 2 255 21	\supset	ther I inder industries including	36	691	2.6	1.475	7.6	999	10	263	606	2000	
d, straw board and other 1 30 1 20 1 1683 2 187 9 products d Binding 1 16 277 5 74 20 267 3 115 132 anures 1 20 267 3 115 132 anures 2 31 21 2 255 21	a.	spinits & veneers	g :	1, 1	3	147	/ 7	670	<u> </u>	5 5	707	613	
1 30 1 20 1 1683 2 187 9 35 576 11 384 24 777 11 159 209 ing 16 277 5 74 20 267 3 115 132 i. 2 31 10 10 223 2 96 2 2 255 21	ď	aper Board, straw board and other		•	•	,		•	T.		Ī	ļ 1	
35 576 11 384 24 777 11 159 209 roducts including 16 277 5 74 20 267 3 115 132 g 10 223 2 96 2 2 31 10 10 223 2 96 2 255 21		paper products	_	30		20		1683	2	187	6	2005	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	EH S	rinting and Binding	35	276	11	384	24	777	11	159	209	5262	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	¥	ubber and rubber products including	16	277	ť	77	20	296	cr	115	139	3576	
10 223 2 96 2 255	4	Artificial manures	2 :	1	> ;		200	, es	,	2 :	10	4188	
	24	harmaceuticals	:01	223	. 2	:8	1 67	. 255	: :	: :	21	781	

APPENDIX-6.3 (Contd.)

 	Name of Industries	Trica	ivandrum	ð	Quilon	All	Alleppey	Kott	Kottayam	Erne	Emakulam
	;	. A	В	A	В	V	В	¥	В	7	B
[Ξ]) (2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)
24	Soap	:	:	:	· :	:	:	:	;	က	916
2	Other chemicals including matches		334	Φ.	170	4	33	က	80	12	1037
56	Petroleum refineries	:	• (i	27	:	:	:	:	വ	1060
27	Bricks and tiles	- -	20	43	2216	4	64	က	89	19	928
28	Glass	:	:	:	:	-	20	:	:	-	310
33	Pottery, China and Earthen ware	:	:	21	284	:	:	:	:	:	:
30	Cement	:	:	:	:	:	:	,	366	:	:
31	Basic metal industries	4	64	က	267	7	25	1	6	Ξ	1124
33	Metal products except machinery	c	1	•	į	c	į	(Ē		1
	and transport equipments		1/2	13	262	30	47	ာ	79	52	7.76
33	Agricultural implements	1	∞ ,	:	:	:	:	:	:	7	8
45	General and jobbing engineering	4	187	S	505	5	115	6	363	25	577
35	Other machinery	4	164		36	:	;	-	7	7	2096
36	Electrical machinery	7	11	ß	343	1	43	က	149	6	267
37	Marine Engineering, Building and										
	repairing	~	20	2	64	:	:	:	:	7	1041
38	Repair of Motor vehicles	16	1035	ıΩ	159	2	79	91	387	15	498
39	Manufacture of bicycles	7	102	7	32	;	:	:	:	7	70
40	Other industries not classified above	10	220	∞	54	∞	224	4	154	21	548
	Total	152	9929	424	85743	298	13426	265	9417	371	25126

A—Number of Factories.
R—Employment—Number of workers employed

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Name of Industries	In	Trichur	Palghat	hat	Koz	Kozlukode	Cann	Camanore	State	te
740.		Æ	В	₹:	В	₹	B	A	B	¥	B
$ \Xi $	(2)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(10)	(21)	(22)
24	Soap Other chemicals including matches	$\frac{1}{22}$	29 564	:=	269	ee 4	2 48 2 80	:-	:6	99	1193
26 27	Petroleum rcfineries Bricks and tiles	911	5095	10	10 624	21	+144	:9	96+	9 226	1097 13652 1
78 78 78	Glass Pottery, China and Earthenware	: -	:83	:-	:81	:ო	120	:-	47	8 73	360 527
333	Cement Basic metal industries	: चं	32	:60	.:	:∞	234	:-	20	1 32	399 2142
25	Metal products except machinery and transport equipments	16	369	19	1078	က	71	က	36	100	3143
333	Agricultural implements	101	14	ເດາຕ	260 82	;∝	993	cc	20 78	018	392
35	Other machinery	3 co 1	135	د در	45) CT (94	-	15	24	2595
36	Electrical machinery Marine Engineering, Building and	ıΩ	77	4	122	7	2	7	28	31	1434
.) &	,	24	÷604	14	155	38:	865	: [178	141 141	1155 3765
8 4	Manufacture of bicycles Other industries not classified above	:9	112	. 2	357	;∞	114	:6	146	81	1929
	TOTAL	202	17681	261	7805	347	17494	360	14063	2983	200684

New Registration and cancellation of Registration effected during the year 1967

Sl. No.	•	No. of factories as on 31-12-1966	No. of factories opened during 1967	No. of factories removed during 1967	No. of factories working as on 31-12-1967	Remarks
(1)	(2)	(3)	(4)	. (5)	(6)	(7)
1	Canning and Preservation of fruits and vegetables	6	••		6	
2	Canning and Preservation of	23	2		25	
•	fish and other sea foods	105	2 2		107	
3	Rice and other flour mills	3			3	
4	Sugar	277	12	9	280	
Š	Oil Mills	125	1		126	
5 6 · 7	Tea	212	26		238	
	Cashew	212	40	• • •		
8	Starch and other food articles	· 35			35	
	except beverages	66	••		66	
9	Beedi and Cigar	240	3	5	238	
10	Cotton Textiles	11	3		11	
11	Knitting	. 142	5	i	146	
12	Coir	3	1 -	•	4	
13	Other Textiles	18	1	• •	18	
14	Umbrellas	239	9	3	24 5	
15	Saw Mills	13	J .	J	13	
16	Ply wood		• •	• •		
17	Other Timber Industries includin	g 208		6	202	
	Splints and Veneers		• •	Ū	$\frac{2\sqrt{2}}{2}$	
18	Paper Mills	. 2	• •	• •		
19	Paper board, straw board and	7	2		9	
	other paper products	206	9	. 6	209	
20	Printing and Binding	200	3	•	400	•
21	Rubber and Rubber products	1 30 ·	2		132	
	including rubber retreading	9	. 1	· · ·	10	
22	Artificia, manures	20	1	• •	21	
23	Pharmaceuticals	7	1		7	
24	Soap	,	• •	• • •	·	
25	Other chemicals including	58	8		66	
-00	matches		. 0		- 9	
26	Petroleum refineries	9 224	3	i	226	
27	Bricks and tiles	2	J	-	2	
28	Glass Pottery china and earthenware	8	••		8	
29		ĭ			1	
30	Cement Basic metal industries	31	i		32	
31	Metal products except transport	.,	-			
32	Wiciai products except dansport	96	14		100	•
00	equipments Agricultural implements	10	B	• •	10	
93	General and jobbing engineering		6		83	
34	Other machinery except electric				•	•
3 5	machinery •	• 23	1		24	

(1)	(2)	(3)	(4)	(5)	(6)	(7)
36 37	Electrical machinery Marine Engineering and bunding	31	••		31	
	and repairing	10	•;	• •	10	
38 39	Repair of motor vehicles Manufacture of bicycles	140 6			141 6	
40	Other Industries not classified above	78	5	2	81	
	Total	2911	108	36	2983	

APPENDIX 6.5 Earnings of Factory Employees * Earning Less than Rs. 400 per month

(In Rupees)

	Total Annual		Per capita daily	Earnings (ercentage increase (+) or decrease (-) in per Capita Earnings ir
State Union Territory	1965(P)	1964(P)	1965(P)	1964(P,	—1965 over 1964
(1)	(2)	(3)	(4)	(5)	(6)
Andhrapradesh Assam Bihar Gujarat Jammu & Kashmir Kerala Madhya Pradesh Madras Maharashtra Mysore Orissa Punjab Rajasthan Uttar Pradesh	147984 77345 365476 670558 1499 98975 178159 347144 1682615 265348 71508 236954 43521 526347	141631 772126 318604 593680 3307 77475 134792 449758 1452571 210237 223198 180915 42114 433048	5. 47 4.95 5. 5 5	3.23 3.62 5.28 5.92 3.02 3.15 6.45 5.07 6.52 5.31 3.81 4.59 4.41 4.99	(+)12.5 (+)13.0 (+) 4.0 (+)12.4 (-)11.6 (+)24.3 (+)11.8 (+) 9.4 & (+)39.9& (+)19.2 (+)12.2 (+)11.2
West Bengal Andaman & Nicobar Islands Delhi Himachal Pradesh Tripura	1244094 4097 128290 1776 490	3237 95993 1910 411	5.99 5.57 7.18 3.29 2.15	4.55 4.54 5.83 4.46 2.21	(+) _. 9.9 (+) _{22.7} (+) _{23.2} (-) _{26.2}
All the above States/ Union Territories	6391810	5 357079 &	6.13	5.24	& (+)13.1 &

^{*} Including employees in Defence Factories but excluding those in Railway Workshops. & Estimated.
Source—Annual returns under the Payme At of Wages Act, 1936.

APPENDIX—6.6

Authorised capital, paid up capital, turnover profit or loss of Government owned companies in 1965-66

Sl. No.	Name of the company	Authorised ca-	Paid up capital	Turnove	Profit or loss
		Rs. in lakhs	Rs. in lakhs	Rs. in lakhs	Rs. in lakhs
1	Trivandrum Rubber Works Ltd.	75.00	28.56	45.70	(+)1.31
2	Trivandrum spinning Mills Ltd.,	75.00	$\frac{48.20}{1}$	28.17	$(-)^{'}8.14$
3	The Kerala Ceramics Ltd.	100.00	29. 9 5	15.32	(-)9.09
4	Kerala Electrical and Allied				()0.00
	Engineering Company Ltd.	25.00	3.00	16.00	(—) 1.66 (Approx) (for 7½ months)
٠ 5	Travancore Plywood Industries				,
	Ltd.	15.00	3.51	14.06	(+)2.32
6	Kerala Soaps and Oils Ltd.	100.00	30.73	121.00	(+)0.29

APPENDIX-6.7

Details of the Industrial Co-operative Societies as on 30-6-1966

Sl. No.	Name of the Society	Total No. in Kerala	Total Employment*	Working Capital (Rs. in lakhs) (F	Production Rs in lakhs)
(1)	(2)	(3)	(4)	(5)	(6)
1 2 3 4	Weaver's Co-operative Society Coir Flaying and Tanning Pottery	404 543 8 97	23906 36095 31 1911	196.04 2.03	294.20 36.54 0.45
Ĵ.	Hand pounding of paddy and cereals	128	719	24.57 14.43	3. 08 1. 8 7
6 7	Oil crushing Palmgur	193 203	14758 14408	19.56	36.25 4.21
8	Cane gur & Khandassary Canning of fruits & Vegetable	$\frac{26}{10}$	343 21	$\frac{3.17}{1.67}$	1.26 0.18
10	Other village Industries Handicrafts	309 276			9.89 8.14
12 13 14	General Engineering Chemical Engineering Leather goods	100 16	852 478 11	19.81 6.61	12.36 2.02
15 16	Construction Materials Spinner's society	46 81		0.46 7.97 8.66	0.17 3.08 7.08
17 18	Miscellaneous Industries Handloom Apex Society	378 1	3216 250	$20.56 \\ 32.69$	16.89 1.62
19	Handicraft Total	2830	106916	2.49 559.91	439.29

^{*} Employment for production and Admikistration .

APPENDIX-6.8

Existing large and medium Industries in ta

- 1. / Travancore Textiles Private Ltd., Nemom, Trivandrum
- Travancore Titanium Products Ltd., Trivandrum
 Trivandrum Rubber Works Ltd., Trivandrum

4. Vijaya Mohini Mills Ltd., Trivandrum.

5. Trivandrum Spinning Mills Ltd., Balaramapuram

6. Harison and Cross fields Ltd., Quilon.

7. Thomas Stephen Co., Ltd., Quilon

8. Parvathy Mills (P) Ltd., Quilon

- 9. F.X.P. Minerals Ltd., Chavara, Quilon.
- 10. Travancore Minerals Ltd., Chavara, Quilon
- 11. Kerala Premo Pipe Factory Ltd., Quilon
- 12. Lakshmy Starch Factory Ltd., Kundara
- 13. Aluminium Industries Ltd., Kundara
- 14. Kerala Ceramics Ltd., Kundara
- 15. Punalur Paper Mills Ltd., Punalur.
- 16. Travancore Plywood Industries Ltd., Punalur

17. United Electrical Industries Ltd., Quilon.

18. Kerala Electrical and Allied Engineering Co., (P) Ltd., Kundara

19. Travancore Sugar and Chemicals Ltd., Thiruvella

- 20. M.C. Dowell & Co., Ltd., Sherthalai
- 21. Mannam Sugar Mills Co-operative Ltd., Pandalam
- 22. Pallathara Bricks & Tiles Ltd., Sherthalai-
- 23. Aspinwall & Co., (India) Ltd., Alleppey
- 24. Darragh Snail & Co., (India) Ltd., Alleppey25. Shankar Paint & Oil Mills (P) Ltd., Alleppey
- 26. Phoneix Plywoods, Kottayam
- 27. Ruby Rubber Works Ltd., Changanacherry.
- 28. South India Plywood Industries, Kottayam
- 29. Travancore Cements Ltd., Kottayam
- 30. Travancore Electro-Chemical Industries Ltd., Chingavanam, Kottayam
- 31. Travancore Timber & Products, Kottayam
- 32. Aspinwall & Co., Ltd., Cochin
 - Tata Oil Mills Co., Ltd., Tatapuram, Ernakulam

Tata Fision Ltd., Ernakulam

- Fertilisers & Chemicals Travancore Ltd., Alwaye
- 36. Travancore-Cochin Chemicals Ltd., Alwaye
- 37. Indian Rare Earths Ltd., Alwaye
- 38. Hindustan Insecticides Ltd., Alwaye
- 39. Indian Aluminium Co. Ltd., Alwaye
- 40. Travancore Ogale Glass Manufacturing Co., Ltd., Alwaye
- 41. Chacolas Spinning & Weaving Mills Ltd., Alwaye
- 42. Asok Textiles Ltd., Alwaye
- 43. Travancore-Chemical and Manufacturing Co., Ltd., Alwaye
- 44. Forest Industries (Travancore) Ltd., Alwaye
- 45. Kathayee Cotton Mills Private Ltd., Alwaye
- 46. Seshasayee Wire Ropes Ltd., Alwaye
- 47. G.T.N. Textiles Ltd., Alwaye
- 48. Premier Tyres Ltd., Kalamassery
- 49. Travancore Rayons Ltd., Perumbavoor
- 50. Hindustan Machine Tools Ltd., Kalamassery
- 51. Anand Water Motor Manufacturing Co., Cochin
- 52. Goivanola Binny Ltd., Cochin
- 53. Traco Cable Co., Ltd., Trippunithura, Ernakulam
- 54. Standard Pottery Works Private Ltd., Alwaye
- 55. Southern Gas Ltd., Alwaye
- 56. Alagappa Textiles (Cochin) Ltd., Alagappanagar, Trichur
 - 7. Vanaja Textiles Ltd., Trichur

Mills Trichur Mills Trichur India) Ltd., Koratty

neables (P) Ltd., Trichur

cel Re-rolling & Allied Industries (P) Ltd., Vadakkancherry

c Cables, Karukutty

aard Furniture Co., Ltd., Chalakudy

rapioca Products, Chalakudy Madras Spinners Ltd., Palghat

- 67. Kumar Industries, Edathara, Palghat
- 68. South India Metal Co., Shoranur

69. Metal Industries Ltd., Shoranur

- 70. Sree Narayana Engineering Industries, Shoranur
- 71. Premier Cotton Spinning Mills Ltd., Kanjikode, Palghat.
 72. British Physical Laboratories India Private Ltd., Palghat
- 73. Co-operative Sugar Ltd., Chittur, Palghat 74. Techno-Chemical Industries Ltd., Calicut

75. , Vegetable Soap Works, Calicut

- 70. Kerala Soaps and Oils Ltd., Kozhikode 77. The Common Wealth Trust Ltd., Calicut
- 76. Malabar Spinning & Weaving Mills Ltd., Calicut

79. Standard Furniture Co., Ltd., Calicut

- 80. Kerala Wheat Flour Roller Mills Ltd., Calicut
- 81. Gwalior Rayon Silk Manufacturing (Weaving) Co., Lt L, Calicut

82. West India Steel Co., Ltd., Celicut

- 83. Calicut Modern Spinning & Weaving Mills Ltd., Calicut
- 61. Khemka Flour Mills Private Ltd., Calicut New India Ceramics Ltd., Feroke, Calicut
- 30. The Western India Plywoods Ltd., Baliapatam
- 87. The Bharat Plywood & Timber Products (P) Ltd., Cannanore
- 36. Cannanore Spinning & Weaving Mills Ltd., Cannanore
- 89. Western India Cottons Ltd., Pappinisserri, Cannanore
- 90. Aysha Hoisery Factory (P) Ltd., Palaparamba, Cannanore 91. Purushotham Gokuldas Match Co., Dharmadam, Cannano
- 91. Purushotham Gokuldas Match Co., Dharmadam, Cannanore 92. Cannanore Co-operative Spinning Milis Ltd., Cannanore
- 93. Fibre Foam Factory, Baliapatam, Cannanore
- 94. Sree Bhagavathy Textiles, Cannanore

95. Kerala Spinners Alleppey

96. Thiruvepathy Mills

- 97. English Indian Clays Ltd., Trivaudrum
- 93. Carborandum Universal Edappally
- 99. Welding Electrodes, Trivandrum
- 100. Cochin Refinery, Ambalavayal
- 101. Cominco Binani, Zinc Ltd., Alwaye
- 102. Cochin Roller Flour Mills Kalamasseri

103. Poysha Industries Ltd., Cochin

- 104. Toshila Anand Lamps Ltd., Angamati
- 105. Trichur Cotton Mills, Nattika

APPENDIX—6.9

Industries that sought Loan Assistance from Kerala Finance Corporation during 1964-65 to 1966-67

Sl.No.	Industrial Units			Year		
St.J40.	Thuustrus Onus		1966-67	1965-66	1964-65	Total
1	Textiles		4	6	5	, 15
2	Chemicals		1	1	1	3
3	Engineering		2	1	2	5
4	Cables	• •	1	••	• •	1
5	Rubber	• •	••	I	1	2
6	Clay	• •	••		••	1
7	Vegetable Oils		••	1	••	1
8	Processed foods	• •	1	••	• •	1
	Total		9	10	10	29

APPENDIX-6.10

Industrywise Classification of loan Disbursed by the Kerala
Financial Corporation during the Year ended 31-3-1967

Sl. No.	Type of Industries		Number	Amount disbursed during the year ended 31-3-1967
1	Food manufacturing Industries excep	t beverage		200000
	Industries	• •	••	
2	Cold storage	• •	2	15 75 000
3	Paper Board and straw Board	• •	••	383 080
4	Rubber footwear		1	825000
5	Heavy chemicals	• •	1	2000000
6	Soaps and Glycerine			100000
7	Matches		••	120000
8	Chinaware-Pottery		1	542000
9	Agricultural Machinery	••	••	110000
	Total	-	5	5855080

APPENDIX-6.11

Industrywise Classification of Amount Disbursed to Small Scale Industries by the Kerala Financial Corporation under the Agency Agreement with the Government of Kerala during the year ended 31-3-1967

Sl. No.	Type of Industry		Number	Amount disbursed during the year ended 31-3-1967
1	Automobile Engineering			197.00
2	Brass and Metal Industries	• •	1	5000.00
3	Carpentry work shops and furniture ma	ert if		
	furniture is manufactured and marketed by			
	mart	• •	2	100150.20
4	Electrical appliance and manufacture	• •	2	74500.00
5	Engineering manufacturing Industries	••	3	181081.95
6 7 8 9	Foundries		1	20097.70
	Ice Factory	• •	1	143000.00
8	Manufacture of splints and Veneers	• •	- 1	49000.00
9	Manufacture of wire nails parliamentary h and screw rings	inges	1	16000.00
10	Manufacture of water proof textile products as oil cloths, Tarpaulin, raw coat etc.,	such	••	132.00
10 11	Pharmaceutical Industry			134.00
12	Printing	• •	2	143724.30
13	Plastic Industry Rubber dipped goods and moulded goods Soap manufacture		2	47200.00 73500.50 95000.00
14			2 1	
15				
16	Solvent Extraction Industry	• •	••	658.55
17	Coir mats and matting industry outside the operative fold		2	157900.00
18	Umbrella Manufacture and fittings	••	1	26000.00
19	Manufacture of cement articles	••	_	
20	Manufacture of rubber crepe sole	••	1 1	25000.00 5500.00
21	Power laundry and Dry cleaning Industry	• •	=	125400.00
22	Ayurvedic Medicine Manufacturing Indust	••	2	57000.00
23	Cashew Industry (Procuring and packing consumer packets,	g in	1	
24	Tile manufacturing industry	••		99900.00
25	Industries not included in the revised list	• •	••	747.00
		••	••	1152.10
	Total	••	27	1497975.65

TABLE No.-6.12

ļ

Number of Factories registered, number of persons employed, productive capital, output, net value added etc., from 1961 to 1965 for Kerala and All India

	1961	11	1962	55	1963	33	1964	*	1965	ະດ
	Kerala	India	Kerala	India	Kerala	India	Kerala	India	Kerala	India
No. of factories Registered	554	9161	538	9784	546	10348	593	12232	629	13459
Productive-capital (Rs. in lakhs)	4666.38	4666.38 237415.08	5646.43	343681.76	6687.45	6687.45 407527.95	7407.10	527501.00	8314.92	630042.00
No. of persons Employed	139806	3049736	137208	3267648	143692	3447853	145763	3797573	154348	3953184
Wages & salaries Total	1208.19	53573.09	1350.16	62785.57	1461.28	70168.99	N.A.	N.A.	N.A.	ż
Gross output (Rs. in lakhs) Factory value	8423.22	8423.22 369332.77	9034.05	9034.05 417645.49	9954.28	9954.28 479930.51	11086.98	11086.98 562633.00	12994.42	12994.42 641962.00
Value added by Manufactured (Rs. in lakhs)	2386.80	2386.80 98790.90	2542.98	111560.72	2666.28	2666.28 129569.07	2939.63	2939.63 150279.00	3310.51	3310.51 168654.00

N.A.—Not Available.

124

APPENDIX—6.13

The production and export of Rutile and Monozite 1960-67

	Rutii	le	Мо	no z i te
Year	Production	Export	Production	Export
- 1	2	3	4	5
 1960	982	1053	76	25
1961	818	775	140	56
1962	1603	1753	86	137
1963	1 7 67	1722	••	••
1964	1870	1393	87	50
1965	1816	1327	162	204
1966	1823	1067	208	120
1967	1291	182	169	80

APPENDIX-6.14

Production and sale of different varieties of clay in 1966 and 1967

CI.		Production	(In Tonna	ಜ)		Sales (In	Tonnes)	
Clay	Ro	w	Pr	ocessed	Ra	iw	Proce	ssed
	1966	1967	1966	1967	1966	1967	1966	1967
Quartz	14817	48	6321	599		48	6423	599
China Clay	521 44	13037	4433	4877	51045	13037	3184	
Tile clay	24640	69308	10515	10992	20793	62761	10720	8744
File clay	99	440	22	345	40	223	4	
Ball clay	444	576	• •	••	350	458	••	180

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TABLE-7.1

Statistics relating to Kerala Power system as on 31-3-1967

	Dagasikkina		At the be	At the beginning of		Achievement	Target for
	Teser uptur	First Plan	Second Plan	Third Plan	Fourth Plan	- auring 1966-67	Journ Flan 1970-73
	(1)	(2)	(3)	(4)	(5)	(9)	(7)
-	Centres electrified	158	902	1849	1935	34	200
æ	Consumers	28119	79575	174993	324111	24620	130000
જ	Street lights installed	7905	25489	82645	106996	9023	20000
4	Generation capacity (K. W.)	28500	85500	147500	192500	168000	806000
τĊ	Maximum demand (K. W.)	24400	62900	125700	187700	212000	555000
9	Units Generated (million units per annum)	150.98	349.78	581.82	. 842.00	1083.11	3088
7	Units purchased	16.84	1.46	50.34	116.48	77.99	:
œ	Puncha load (K. W.)	8700	12057	20111	38208	16734	:
6	Total connected load (K. W.)	69269	142353	308015	509851	116259	:
10	Per Capita consumption per annum (units)	13.00	18.50	30.10	44.57	47.28	:
-							

APPENDIX-8.1

Statement showing the number of motor vehicles in the State as on 31-3-1967

(3) (4) (5) (6) (7) 1195 600 3133 917 4 233 653 1661 488 233 522 1709 609 6 768 330 2984 616 26 423 868 4621 1665 84 414 733 2089 693 329 463 1454 431 20 497 343 2819 744 132 361 275 1781 305 178 4558 5013 22161 6468 450		District	Goods rehicles	State carriages	Taxi	Cars	Motor	Auto- rickshaws	Tractor-	Others	Total
Trivandrum 1074 1195 600 3133 917 4 88 Quilon 843 233 653 1661 488 26 Alleppey 523 338 522 1709 609 6 32 Kottayam 1287 768 330 2984 616 26 130 Ernakulam 1738 423 868 4621 1665 84 32 Trichur 819 414 733 2089 693 16 Palghat 685 329 463 1454 431 20 297 Kozhikode 1623 497 343 2819 744 132 109 Cannanore 798 361 275 1781 305 178 65 Torat. 9390 4558 5013 22161 6468 450 795		(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)
Quilon 843 233 653 1661 488 26 Alleppey 523 338 522 1709 609 6 32 Kottayam 1287 768 330 2984 616 26 130 Ernakulam 1738 423 868 4621 1665 84 32 Trichur 819 414 733 2089 693 16 Palghat 685 329 463 1454 431 20 297 Kozhikode 1623 497 343 2819 744 132 109 Cannanore 798 456 5013 22161 6468 450 795	. 1.	Trivandrum	1074	1195	009	3133	917	4	88	197	7208
Alleppey 523 338 522 1709 609 6 32 Kottayam 1287 768 330 2984 616 26 130 Ernakulam 1738 423 868 4621 1665 84 32 Trichur 819 414 733 2089 693 16 Palghat 685 329 463 1454 431 20 297 Kozhikode 1623 497 343 2819 744 132 109 Cannanore 798 361 275 1781 6468 450 795	2.	Quilon	843	233	653	1991	488	:	26	က	3907
Kottayam 1287 768 330 2984 616 26 130 Ernakulam 1738 423 868 4621 1665 84 32 Trichur 819 414 733 2089 693 16 Palghat 685 329 463 1454 431 20 297 Kozhikode 1623 497 343 2819 744 132 109 Cannanore 798 455 5013 22161 6468 450 795	က	Alleppey	523	338	522	1709	609	9	32	7	3746
Ernakulam 1738 423 868 4621 1665 84 32 Trichur 819 414 733 2089 693 16 Palghat 685 329 463 1454 431 20 297 Kozhikode 1623 497 343 2819 744 132 109 Cannanore 798 361 275 1781 305 178 65 Toral 9390 4558 5013 22161 6468 450 795	4.	Kottayam	1287	292	330	2984	616	26	130	87	6344
Trichur 819 414 733 2089 693 16 Palghat 685 329 463 1454 431 20 297 Kozhikode 1623 497 343 2819 744 132 109 Cannanore 798 361 275 1781 305 178 65 Total 9390 4558 5013 22161 6468 450 795	5.	Ernakulam	1738	423	898	4621	1665	84	32	:	9451
Palghat 685 329 463 1454 431 20 297 Kozhikode 1623 497 343 2819 744 132 109 Cannanore 798 361 275 1781 305 178 65 Total 9390 4558 5013 22161 6468 450 795	9	Trichur	819	414	733	2089	693	:	16	:	4764
Kozhikode 1623 497 343 2819 744 132 109 Cannanore 798 361 275 1781 305 178 65 Total 9390 4558 5013 22161 6468 450 795	٢7.	Palghat	685	329	463	1454	431	20	297	:	3679
Cannanore 798 361 275 1781 305 178 65 Total 9390 4558 5013 22161 6468 450 795	ထ	Kozhikode	1623	497	343	2819	744	132	109	79	6346
9390 4558 5013 22161 6468 450 795	6	Cannanore	798	361	275	1781	305	178	65	:	3763
		Total	9390	4558	5013	22161	6468	450	795	373	49208

Source: Office of the Transport Commissioner, Trivandrum

APPENDIX—8.2

Routes and distances and number of passengers

Diefeiol	No. of ro	No. of routes as on	Route k.m. as on	ı. as on	Gross distance	Operated during	No. of passengers carried as (*000)	rs carried as
	31-3-1966	31-3-1967	31-3-1966	31-3-1967	1965-66 (000 k.m.)	1966-67 (000 k.m.)	1965-66	1966-67
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)
Trivandrum Central	152	160	6013	7143	15222686	15757113	32897442	39487304
Trivandrum City	252	308	2808	3678	5965318	6641940	34276444	40424900
Quilon	28	32	1545	1870	5385775	6051738	14436911	16795437
Kottarakara	35	37	1199	1277	3481335	3677683	9566863	11050836
Kottayam	41	59	2133	3335	8818080	10397719	18075884	22468676
Atheppey	32	32	1426	1599	6627128	7125762	17262248	20544762
Ernakulam	21	23	1196	1244	3953492	4592194	7944038	9555752
Alwaye	32	37	681	1237	5064571	4564683	13102326	15827383
Trichur	12	13	1045	1195	4125709	4567507	6560905	7519624
Kozhikode	13	15	2427	2520	5256358	5907395	4406892	5481837
Works shops & other offices	:	:	:	:	281429	258676	:	:
Torat	009	695	19878	23231	64181873	69942410	158529953	189156511

Source: Office of the State Transport Corporation, Trivandrum,

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APPENDIX—8.3

Revenue and expenditure of the Transport Corporation (Rs. in lakhs)

Item	Revenue	Expenditure	Net surplus
1	2	3	4
1960-61	294.18	284.01	+10.17
1961-62	361:95	330.39	+31.56
1962-63	434.20	394.70	+39.50
1963-6 4	476.90	44 8.26	+28.64
1964-65	553.88	529.68	+24.10
1965-66	631.21	590.66	+40.55
1966-67	751.6 6	727.54	+24.12

Source:-State Transport Corporation, Trivandrum.

APPENDIX—8.4

Revenue and expenditurestatement of the water transport section of the State Transport Corporation

(Rs. in lakhs)

Year	Revenue	Expenditure	Net surplus
1	2	3	4
1960-61	5.80	7.50	() 1.70
1961-62	5.36	7.30	(—) 1.94
1962-63	5.8 3	7. 55	() 1.72
1963-64	6.06	7.86	() 1.80
1964-65	6.92	9.45	() 2.53
1965-66	8.78	9.30	() 0.51
1966-67	9.71	10.39	(—) 0.68

Source:-State Transport Corporation, Trivandrum.

APPENDIX-9.1

Foreign Exports from the Ports of Kerala

ž		17	1961-62	52	1964-65	55	1965-66	99	* 49 - 9961	37*
	Commodify		Qty.	Value	Qty.	Value	Qty.	Value	Qp.	Value
—	Cardamom	Tonnes	405.49	66.82	260.89	47.25	295.52	61.83	482.63	233.04
7	Cashew Kernels	:	41637.65	1691.08	51625.17	2794.05	48625.98	2602.45	49464.60	4352.05
က	Cashew shell liquid	:	5953.64	57.41	13019.99	204.07	12250.01	171.67	9446.77	167.42
4	Coffee	:	5630.02	146.82	10496.45	441.83	9679.27	443.38	13406.39	788.57
2	Coir and Coir products	=	75277.62	1096.29	71552.63	1074.93	63488.30	1018.89	62012.06	1491.08
9	Marine Products including froglogs	a. a.o.	6498.60	258.54	10680.15	574.17	10356.73	, 735.66	13099.42	1519.23
7	Ginger	. 2	5214.83	84.00	2683.25	99.19	7683.66	82.83	2451.98	82.91
9	grass oil	1000 litres	7 995.61	276.38	1109.19	132.78	296.04	38.43	362.21	84.08
6	Pepper	Tonnes	20928.26	757.90.	18417.31	750.70	24477.06	1027.37	20020.01	1127,63
9	Tea	:	36007.42	1987.19	40577.37	2178.27	45254.10	2209.63	38420.62	2873.00
=	Oilcake .	:	1338.80	4.03	3865.00	13.05	1578.00	5.91	477.00	1.33
2	Copra	: 2	:	1	:	:	:	:	483.00	2.48
2	Rubber manufacturers		0.18	0.57	19.74	1.4	N.A.	16.19	N.A.	30.46
*	Wood & Timber		N.A.	239.61	N.A.	163.97	N.A.	138.33	N.A.	266.56
22	Sundries		:	882.27	•	585,00	:	452.89	:	794.30
	Total			7549, 15	;	02 0906		9005.46	:	13754, 14

"Source : D.G.C.I. & S. Government of India"

Subject to revision

APPENDIX-9.2

Foreign Import in to the Ports of Kerala

(Value in lakhs of rupees)

		1961-62	~ 1	1964-65		1965-66	
Jo.		Oth.	Value	Qty.	Value	Q.6y.	Value
Cotton raw & waste	Tonnes	15233.00	617.19	13143.00	558.31	6186.00	296.14
Cotton piece goods Copra	Metres	19302.00	173.32	6.69 4730.00	1.43 49.85	10475.00	128.10
Fruits & Vegetables including Cashewnut		:	591.64	:	1457.96	:	1662.70
& Wheat	Tonnes	34647.00	162.14	485033.00	2068.17	596150.00	3097.25
Manure	Tonnes	74266.00	119.94	97818.00	211.56	191249.00	958.71
Metals, minerals & ores Mineral oil	Lakha	27948.00 4022.23	335.91 537 40	N.A.	801.87	21234.00	322.72 N A
Other vegetable oil	'000 litrs.	N.A.	131.11	2174.00	26.41	1573.00	37.03
Chemicals including sulphur Coal coke & Pitch	Tonnes	5401.00	102.12	6405.00	155.82	2	137.67
Liquers	'000 litrs	23.81		63.30	3.65	32.57	1.56
Faper and paste Board Silk manufacturers	Lonnes	7088.00	15.75	7382.00	57.44	8437.00	65. 48
urers &	••••••••••••••••••••••••••••••••••••••	:	:	:	1.34	:	2.10
unmanufacturers	Tonnes	173.00	7.28	:	:	0.22	0.00
Mood pulp	:	8954.50	73.22	8185.00	80.81	4043.00	46.31
Sundries	:	:	1129.66	:	1464.65	:	1164.36
G. 10131			T000.23	:	191.01	:	/373.38

Subject to revision

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APPENDIX—10.1
Literacy rates in the various States - 1961

St. dec	Perce	mtage of Literates	
States	Men	Women	Persons
(1)	(2)	(3)	(4)
1. Andhra Pradesh	30.2	12.0	21.2
2. Assam	37.3	16.0	27.4
3. Bihar	29.8	6.9	18.4
4. Gujarat	41.1	19.1	30.5
5. Jammu & Kashmir	17.0	4.3	11.0
6. Kerala	55.0	38.9	46.8
7. Madhya Pradesh	27.0	6.7	17.1
8. Madras	44 .5	18.2	31.4
9. Maharashtra	42.0	16.8	29.8
10. Mysore	36.1	14.2	25.4
11. Orissa	34.7	8.6	21.7
12. Punjab	33.0	14.1	24.2
13. Rajastan	23.7	5.8	15.2
14. Uttar Pradesh	27.3	7.0	17.6
15. West Bengal	40.1	17.0	29.3
16. India	34.4	12.9	24.0

APPENDIX-10.2

Literacy in Kerala by Districts - 1961 (In lakhs)

District			1961 (d	ictuals)		
District –	Male	% to the total male population	Female	% to the total female population	persons	% to the total population
(1)	(2)	(3)	(4)	(5)	(6)	(7)
l. Trivandrum 2. Quilon (4)	4.64 5.62	53.3 57.8	3.27 4.18	37.3 43.2	7.91 9.80	 45.3 50.5
2. Quilon (4) 3. Alleppey (1)	5.70	63.8	4.60	50.1	10.30	56.9
. Kottayam (2)	5.51	62.4	4.29	50.5	9.80	56.6
5. Ernakulam (3) 6. Trichur (5)	5.38 4.33	57.8 55.2	4.02 3.62	43.3 42.3	9.40 7.95	50.6 48.5
6. Trichur (5) 7. Palghat	3.59	42.1	2.46	26.6	6.05	34.1
B. Kozhikode	6.65	51.1	3.98	30.2	10.63	40.6
9. Cannanore	4.54	52.0	2.81	31.0	7.35	41.3
0. State	45.96	55.0	33.23	38.9	79.19	46.9

132 APPENDIX—10.3

Per capita Government Expenditure on Education in Kerala 1957-58 to 1966-67

Year	Percapita Expenditure
, (1)	(2)
1957-58	6.30
1958-59	8.14
1959-60	8.92
1960-61	9.56
1961-62	10.70
1962-63	10.75
1963-64	11.56
1964-65	12.35
1965-66	15.19
1966-67	18.48

APPENDIX—10.4

Per capita Govt. Expenditure on Education in various States—1966-67

	States		Per capita Expenditure
	(1)		(2)
1•	Andhra Pradesh	••	7.98
2.	Assam	• •	10.55
3.	Bihar	• •	4.29
4.	Gujarat	• •	8.95
5.	Jammu & Kashmir	• •	14.56
6.	Kerala	• •	18.48
7.	Madhya Pradesh	• •	8.68
8.	Madras	••	11.97
9.	Maharashtra	••	9.01
10.	Mysore	• •	10.60
11.	Orissa		7.02
12.	Punjab & Hariyana	• •	12.91
13.	Rajastan		9.28
14.	Uttar Pradesh	• •	5.54
15.	West Bengal	• •	9.14
	•	• • •	3111

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APPENDIX—10.5

Government Expenditure for General School Education in Kerala—1961-62 to 1966-67

Year	Expenditure for General school education (Rs. in crores)	Percentage to total Govt. expenditure on education
(1)	(2)	(3)
1961-62 1962-63	16.83 17.11	91 89
1963-64	18.46	88
1964-65	19.88	86
1965-66	25.23	91
1966-67 Revised Estimates)	30.18	85

APPENDIX-10.6

Schools in Kerala for General Education by Type of Management-1957-58 to 1967-68

High Schools (including P. B. S.)	. Put. Total Govt. Put. Total	(9) (10) (11) (12) (13)	12 631 873 3564 5978 9542 -	15 624 879 3565 5972 9537	H 644 888 3493 6033 9526 —	276 653 929 3687 5972 9659	12 701 1013 4008 6194 1020 2 51	705 1020 3948 6277 10225	801 1146 4001 6513	F5 806 1151 4010 6542 10552	91 884 1275 3852 6669 10521	
Hi_{eta}	Total Govt.	(7) (8)	1891 242	1907 245	1932 244	1985 27	2285 312	2286 315	2438 345	2447 345	2473 391	906
Upper Primary Schools (including S. B. S.)	Pvt.) (9)	1363	1374	1402	1409	1574	1581	1680	1686	1696	4000
	Total Govt.	(4) (5)	6778 528	6761 533	6706 530	6745 576	6904 711	6919 705	6930 758	6954 761	6953 777	0700
Lower Primary Schools (including J. B. S.)	Put.	(3)	3984	3974	3987	3910	3919	3991	4032	4050	4089	2000
Lower Pri (includin	Govt.	(2)	2794	2787	2719	2823	2985	2928	2898	2904	2864	7700
7.	Terr	(1)	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	19-9961	1067 60

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APPENDIX—10.7

Standardwise strength of pupils in Kerala 1965-66 and 1966-67

Standard	1965-66	1966-674
(1)	(2)	(3)
I	756337	789821
II	669189	67435₹
III	574931	629918
IV	520725	551475
Sub-Total I-IV	2521182	2645571
\mathbf{v}	405669	441869
VI	334823	354380
VII	291019	303362
Sub-Total V—VII	1031511	109961 3
· VIII	248127	272888
IX	210760	227171
X	156256	159706
Sub-Total VIII—X	615143	659765
Grand Total	4167836	4404949

^{*}Provisional

APPENDIX—10.8

Number of Teachers' Training Schools, Intake Capacity and Number of seats
per 100,000 of population 1966-67

	District	No. of Teach	hers' Trainin	g Schools	I	ntake Capacit	y
	Dance	Public	Private	Total	Public	Private	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Trivandrum	3	6	9	400	400	800
2.	Quilon	2	13	15	160	840	1000
3.	Alleppey	4	14	18	400	640	1040
4.	Kottayam	3	10	13	280	640	920
5.	Ernakulam	4	12	16	400	640	1040
6.	Trichur	3	7	10	240	480	720
7.	Palghat	3	4	7	280	280	560
8.	Kozhikode	5	5	10	480	360	840
9.	Cannanore	4	3	7	520	160	680
10.	State	31	74	₀ 105	3160 o	4440	7600

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APPENDIX—10.9
Polytechnics (excluding women's polytechnics) in Kerala 1967-68

	D1414	No.	of Polytechnic	5	In	ntake capacity (sanctioned)	
	District	Govt.	Private	Total	Govt.	Private	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Trivandrum	2		2	210		210
2.	Quilon	• •	1	1	••	180	180
3.	Alleppey	••	2	2	• •	360	360
4.	Kottayam	1	• •	1	120	• •	120
5.	Ernakulam	1		1	260	••	260
6.	Trichur	1	2	3	180	300	480
7.	Palghat	2	••	2	150	••	150
8.	Kozhikode	1	1	2	330	120	450
9.	Cannanore	1	1	2	150	60	210
10.	State	9	7	16	1400	1020	2420

APPENDIX—10.10

Industrial Training Institutions in Kerala—1967-68

Manutus.	j	No. of 1	T.Is.		Intake	capacity	
District	Govt		Pvt.	Total	Govt.	Pvt.	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Frivandrum		2	4	6	1400	320	1720
Quilon		1	2	3	580	240	820
Alleppey		1	7	8	532	612	1144
Cottayam		1	3	4	540	192	732
Ernakulam		1	7	8	808	320	1128
Trichur		1	• •	1	912		912
alghat		1		1	748		748
Kozhikode		1	1	2	352	16	368
Cannanore		1	1	2	732	3 2	764
tate	• 1	0	25	35	6604	1732	833 6
lanr	nanore	nanore	nanore 1	nanore 1 1	nanore 1 1 2	nanore 1 1 2 732	nanore 1 1 2 732 32

APPENDIX-10.11

Nursing Schools in Kerala—1967-68

			General	General nursing course	ur se		Au	xiliary Nu	Auxiliary Nurse mid-wifery course	ery course		
District	No. of Nursing	No. of General Nursing Schools	lh lh	Intake capacity	ıfı.		No. of Aux. Nurse midwifery Schools	c. Nurse n Schools	nidwifery	Intak	Intake capacity	
1	Govt.	Pvt.	Total	Goot.	Pot.	Total	Goot.	Pot.	Total	Gout.	Put.	Total
(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)
1. Trivandrum	5	:	67	140	:	140	2	2	4	35	30	65
2. Quilon	1	-	2	40	25.	65	1	-	7	25	15	40
3. Alleppey	1	2	33	35	27	62		က	4	25	45	16
4. Kottayam	1	2	က	20	25	75	-	2	33	30	28	
9. Ernakulam	1	2	က	35	30	122	П	:	-	25	:	
6. Trichur	1	1	2	20	15	65		:	-	30	:	
7. Palghat	1	:	1	45	:	45	:	:	:	:		
8. Kozhikode		:	_	40	:	40	1	;	1	25		
9. Cannanore	:	:	:	:	:	:	-	:	-	30		
10. State	6	œ	17	492	122	614	6	8	17	225		