

ANNUAL SURVEY OF INDUSTRIES

1977-78

KERALA STATE

**DIRECTORATE OF ECONOMICS AND STATISTICS
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PREFACE

This report on Annual Survey of Industries 1977-78 is the thirteenth publication in the series. It provides basic data on the registered factory sector of the state as a whole as well as that of the Districts. Besides presenting aggregates of principal structural characteristics of industries at the three digit level of National Industrial classification, structural ratios of important industry groups have been furnished.

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Suggestions for the improvement of the report are welcome.

Trivandrum,
October 1982.

Dr. R. S. KURUP,
DIRECTOR ✓

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ANNUAL SURVEY OF INDUSTRIES 1977-78

SECTION I

INTRODUCTION

1.1 The Annual Survey of Industries (ASI) is the principal source of data on various aspects of the registered establishments engaged in economic activities relating to manufacture, generation and distribution of electrical-energy, water supply, repair services etc. The survey is conducted every year under the statutory provisions of the collection of statistics Act (Central Act) 1953 and the rules framed thereunder in 1959. The field work of the survey is being carried out by the Field Operations Division of the National Sample Survey Organisation.

1.2 The survey covered all establishments (1) registered under sections 2m (i) and 2m (ii) of the Factories Act 1948, (2) Electricity undertakings engaged in generation and distribution of electric energy, (3) Beedi manufacturing units registered under the Beedi and cigar workers (conditions of employment) Act 1963, (4) Registered units rendering certain types of services like cold storage, repair of motor vehicles etc. (5) Factories located in jails/Reformatories and satisfying the required conditions for the registration under the factories Act and (6) units engaged in grading and packing like the Food Corporation of India and certain drugs distribution firms though not strictly come under any manufacturing activity.

But oil storage and distribution units, establishments coming under the control of the Department of Defence production, restaurants and Cafes and Technical training institutions which are not producing anything for sale or exchange though they may be registered under the factories Act 1948 are excluded from the purview of the study. Sections 2m (i) and 2m (ii) of the factories Act respectively refer to establishments where in 10 or more workers are working or were working on any day of the preceding twelve months, and in any part of which a manufacturing process is being carried out with the aid of power or ordinarily so carried on and factories wherein 20 or more workers are working or were working on any day of the preceding twelve months and in any part of which a manufacturing process is being carried out without the aid of power or ordinarily so carried on.

1.3 The primary unit of enumeration in the survey is the factory for all industries except electricity in which case it is an undertaking. The owner of two or more factories located, in the same state is allowed to submit a single consolidated return from all units provided the units belonged to the same industry group.

1.4 The frame for the ASI 1977-78 is based on the lists of registered units maintained by the Director of Factories, Labour Commissioner (in respect beedi and cigar units) and the Central electricity authority. The frame is

revised and updated once in every two years. In spite of regular updating a good number of units selected for the survey are found to be non-existing and are termed as deleted units. The FOD does not delete any unit from its frame till it is deleted by the registration Authority. Hence a few non-existing units identified in one round of the survey have to be carried over to the frame for the subsequent surveys till they are deleted by the Registration Authorities.

1.5. For the purpose of the survey the factories in the frame were divided into two sectors viz. census and non-census. The factories employing 50 or more workers and using power and those units employing 100 or more workers and not using power are classified as census sector. The remaining units constituted the non-census or sample sector. This classification is made on the basis of the employment data, available from the previous round of the survey. But a classification so made in respect of a factory will, not be disturbed till the frame is revised. All units in the census-sector and all electricity undertakings irrespective of the size of the employment and those industry groups in the non-census sector in which the total number of units are less than 50 in the entire country were completely enumerated every year. One half of the factories in the remaining industry groups (stratum) in the non-census sector are enumerated each year in rotation so as to achieve complete coverage of the non-census sector in a period of two consecutive years.

1.6. Reference period of the ASI 77-78 was the year commencing from 1st April 1977 to 31st March 1978. Schedules were canvassed from all establishments whose accounting year ended on any day during this period.

1.7. Concepts and definition

1. *Reference year*: for ASI 1977-78 means the accounting year of the factory ending on any date between 1st April, 1977 and 31st March, 1978.

2. *Registered factory*: is one registered under the Factories Act, 1948 employing 10 or more workers and using power and 20 or more workers and not using power. Closed factories with fixed assets on site, both in census and non-census sectors, are also included till they are deleted from the lists maintained by the Chief Inspectors of factories in the State. Blank cards are filled for closed factories with no fixed assets on site (deleted units). Such units in the non-census sector are being included while those in the census sector are being excluded.

3. *Gross value of plant and machinery* represents the total original (undepreciated) value of plant and machinery as at the end of the accounting year. It includes the book value of own constructed plant and machinery, if installed, and the approximate value of rented-in plant and machinery at the time of renting-in but excludes value of rented-out plant and machinery. The total value of plant and machinery acquired on hire-purchase basis is also included.

4. *Fixed Capital*.—represents the depreciated value of all fixed assets of the factory as on the closing day of the accounting year. Fixed capital covers all goods, new or used, that have a normal economic life of one year or more (for example land, buildings including those under construction, plant and machinery, transport equipment, etc). It includes the fixed assets of the head office allocable to the factory. Assets solely used for post manufacture distribution as well as intangible assets are, however, excluded from fixed capital.

5. *Working Capital*.—comprises of stock of materials, stores, fuels, semi-finished goods and finished goods, cash in hand and at bank, net balance of amounts receivable over amounts payable as at the end of the accounting year. It, however, excludes fixed deposits, long-term loans and investments.

6. *Productive Capital*.—is the total of fixed capital and working capital as defined above.

7. *Invested capital* —is the total of fixed capital and physical working capital comprising stocks of materials, stores, fuels etc., semi-finished goods and finished products and by-products as at the end of the accounting year.

8. *Outstanding loan*.— represents all loans whether short-term or long-term whether interest bearing or not, remaining outstanding accounts to the books of the factory on the closing day of the accounting year.

9. *Workers*.—the term 'worker' is used in the same sense as defined in Section 2 (1) of the Factories Act, 1948 where a worker is defined as a person employed directly or through any agency whether for wages or not, in any manufacturing process or in cleaning any part of the machinery or premises used for manufacturing process or any kind of work incidental to or connected with the manufacturing process or the subject of the manufacturing process. However persons holding positions of supervision and management or employed in a confidential position are excluded.

10. *Employees*.—relate to all persons engaged by the factory in work connected directly or indirectly with the manufacturing process and include all administrative, technical and clerical staff as also labour engaged in production of capital assets for factory's own use. It includes employees in the so called sales department as also those engaged in purchase of raw materials etc and fixed assets for the factory. They also include the working proprietors and their unpaid family members who work in or outside the factory. In the case of the factory being a co-operative society, its unpaid working members are also included in the term 'employees'. As such persons in the head office connected with the manufacturing activity of the factory are also included in this item.

The number of workers or employees is an average number per working day (days on which the manufacturing process was carried on). It is calculated by adding, for each category, persons attending and on leave with pay (including those on strike but excluding those on unlimited leave or

leave without pay) in each shift over all the shifts worked on all days (working and non-working) and dividing the result by the number of days on which the manufacturing process was carried on.

11. *Man-days*.—worked represent, the total number of man-day^s worked by the factory during the accounting year. It is obtained by the factory during the accounting year. It is obtained by summing of the number of persons of all categories attending in each shift over all the shifts worked on all days (working and non-working).

12. *Wages*.—include all payments made to workers in cash as compensation for work done during the year, dearness allowance, overtime payments, shift allowance, leave wages for example, basic wages, wages for paid holidays and regular bonuses such as production bonus good attendance bonus, incentive bonus, etc. which are paid more or less regularly for each pay period.

13. *Emoluments* —include the salaries and wages paid during the year to persons in employment. It includes profit sharing, festival and other bonuses and ex-gratia payments paid at less frequent intervals (i.e. other than bonuses paid more or less regularly for each pay period). Benefits in kind in respect of supplies made or services rendered such as housing, medical, education and recreational facilities are included in this item. It excludes factory expenses in the shape of employer's contribution to provident fund, pension, gratuity or similar other charges.

14. *Fuels consumed*.—represent the total purchase value of all items of fuels, lubricants, electricity, water, etc. consumed by the factory during the reference year and excludes that part of fuels which is produced and consumed by the factory.

15. *Materials consumed*.—represent the total value of all items of raw materials, chemicals, packing materials, and stores actually consumed during the reference year for manufacture including capital/assets for factory's own use. It excludes the intermediate products, i.e. goods produced within the factory and consumed for further manufacture.

16. *Total input*.—comprises of all manufacturing costs of the factory. Included in it are the costs of fuels and materials consumed (as defined above) for manufacture as well as for repair and maintenance of factory's fixed assets, office supplies, stationery, technical magazines and periodicals etc., purchase value of goods sold in the same condition as purchased, purchase value of products reported for sale in the previous year but consumed during the reference year for further manufacture and the costs of services purchased.

17. *Products*.—the term 'product' represents the ex-factory value (that is exclusive of taxes, duties etc. on sales) of all finished products and by-product intermediate products, i.e. those produced and consumed in further manufacture in a factory but includes the value of assets produced for factory's own use.

18. *Net value of semi-finished goods.*—It represents the excess of value of goods in process at the end of accounting year over that at the beginning of the year. It includes the value of semi-finished goods of last year sold in the current year.

19. *Gross output.*—is the ex-factory value of products (as defined above) and the value of services rendered by the factory for others during the reference year. It includes the net value of semi-finished goods (as defined above) and sale value of goods sold in the same condition as purchased.

20. *Depreciation.*—is the consumption of fixed capital by the factory during the reference year and is taken as provided for by the factory and is estimated on the basis of cost of installation and working life of the fixed assets calculated in terms of the number of years.

21. *Value added by manufacture.*—Provides a measure of the contribution made by resources of labour and capital in producing the output of an activity and is obtained by deducting when the total value of input and depreciation from the total value of output.

22. *Factor payments to others.*—represents the share in value added of income from capital other than land and is the sum total of 'rent' (excluding rent on land) and interest.

This aggregate, is exclusive 'land rent' since summary Reports of ASI 1973-74.

23. *Net income.*—represents the factor shares of employees and entrepreneur in the value added and is obtained by deducting the factor payments to others from the value added.

24. *Operating surplus.*—is the excess of the value added (as defined above) over the cost of employees compensation (i.e. emoluments).

25. *Profits.*—is the excess of the net income (as defined above) over the cost of employee compensation (i.e. emoluments). This, therefore, would include land rent as well.

1.8. Limitations.—The data presented in this report relate to factories responded to the survey. The factories which did not respond contributed only 4.1% of the factories in the frame. Therefore the data presented in this report has this limitation.

† Includes land rent besides emoluments and profits.

† Profits obtained by subtracting 'total emoluments' from 'Net Income' includes land rent and therefore, over-estimates 'profits', to that extent.

SECTION II

2.1 Review of results.—The results of the survey are presented in this section both for the factory sector as a whole as well as for each industry group. Principal aggregates in respect of important industries have been arranged in descending order. The structural ratios and technical coefficients have also been worked out and incorporated as a separate table in this section.

TABLE 2.1
Results at a glance - All industries

Aggregate	Unit	1977-78	1976-77	% increase in 1977-78 over 1976-77
1. Factories	No	2824	2222	27.1
2. Fixed capital	Rs. crores	591	543	8.8
3. Working capital	,,	209	180	16.1
4. Productive capital	,,	800	723	10.7
5. Invested capital	,,	849	767	10.7
6. Outstanding loans	,,	527	505	4.4
7. Employees	(000)	279	256	9.0
8. Emoluments	Rs. crores	114	99	15.2
9. Input	,,	907	781	16.1
10. Output	,,	1176	1009	16.6
11. Value added	,,	236	195	21.0
12. Factor payments	,,	35	31	12.9
13. Net income	,,	201	164	22.6
14. Profits	,,	86	65	33.8

It may be seen from the above table that the number of units in 1977-78 recorded a very high growth over the previous year. To some extent this was due to the fact that a large number of Beedi units registered under the beedi and Cigar workers (conditions of employment) Act 1966 were brought under the purview of the survey for the first time. Though the number of units increased by 27.1%, fixed capital increased by only 8.8%, employees by 9% and value added by manufacture by 21% over the previous year. Since most of the units added to the sector during 1977-78 were small units which belonged to the beedi industry (a good number of them were branches of their respective main establishments) their impact on other structural characteristics of the sector was not so

impressive. But value added by manufacture shows impressive growth during the year. Consequently net income and profits also show handsome growth during the year.

2.2 Selected Aggregates by principal economic activity:—Selected aggregates of the factory sector by principal economic activity are presented in table 2.2

TABLE 2.2
Selected aggregates by principal economic activity

Sl. No.	Items	Units	Manu- facturing	Electricity and water supply	Repair services	All Indus- tries
1	No. of Factories	No.	2710 (95.96)	11 (0.39)	103 (3.65)	2824 (100.00)
2	Fixed Capital	Rs. in lakhs	31047 (52.52)	27909 (47.22)	153 (0.26)	59109 (100.00)
3	Working capital	"	17661 (84.60)	3144 (15.06)	70 (0.34)	20875 (100.00)
4	Productive capital	"	48703 (60.90)	31053 (38.82)	223 (0.28)	79984 (100.00)
5	Employees	No.	243919 (87.31)	30361 (10.87)	5088 (1.82)	279368 (100.00)
6	Total Emoluments	Rs. in lakhs	9232 (80.77)	1779 (15.56)	419 (3.67)	11430 (100.00)
7	Total Input	"	89242 (98.42)	784 (0.86)	650 (0.72)	90676 (100.00)
8	Total output	"	110465 (93.89)	6065 (5.16)	1118 (0.95)	117648 (100.00)
9	Value added	"	18507 (78.53)	4605 (19.54)	455 (1.93)	23568 (100.00)
10	Factor payments	"	3296 (93.67)	219 (6.22)	4 (0.11)	3519 (100.00)
11	Operating surplus	"	9275 (76.41)	2827 (23.29)	36 (0.30)	12138 (100.00)
12	Profits	"	5979 (69.37)	2608 (30.26)	32 (0.37)	8619 (100.00)

(Percentages are given in brackets).

It may be observed from the above table that 96% of the factories covered in the survey belonged to the manufacturing sector while only 3.6% belonged to repair services and 0.4% comprised of electricity, gas and water supply undertakings. But the share of electricity, sector in the fixed assets formed 47% which is indicative of the capital intensity of this sector. Though 87% of the total employees belonged to the manufacturing sector its share in the total wage bill constituted only 80.8%, while the share of electricity sector was 15.8% against 11% share of employees. Repairs sector covered 3.7% of total emoluments against 1.8% share of employees. This shows that average emoluments per employee were higher in Electricity and repair sectors than manufacturing sector. Average emoluments per employee in these two sectors were higher than manufacturing because these two sectors require more of skilled labour than the latter and therefore require to be paid higher. The value added per employee is also the highest in the electricity sector. Hence it may be seen that this sector is capital intensive on account of both physical and human capital. Though about 94% of the total output was from the manufacturing sector the value added by manufacture from this sector constituted only 78.5% of the total.

From a mere 5% share of output the electricity sector was able to raise 19.5% of the total value added by manufacture. This was due to the very low input out ratio associated with the production of hydel power.

2.3 Structural ratios and technical/Co-efficients:—Selected structural ratios and Technical co-efficients in respect of the factory sector for 1977-78 are presented in table 2.3

A.S.I. 1977-78

TABLE 2.3

Selected structural ratios by principal economic activity

Sl. No.	Items	Units	Manufacturing	Electricity & Water supply	Repair services	All Industries
1	Fixed Capital per factory	Rs. lakhs	11.46	2537.17	1.48	20.93
2	Productive capital per factory	"	17.97	2823.04	2.16	28.32
3	Gross output per factory	"	40.76	551.38	10.85	41.66
4	Value added Per factory	"	6.83	418.72	4.42	8.35
5	Workers per factory	No.	77	1858	44	82
6	Employees per factory	No.	90	2760	49	99
7	Fixed capital per employee	Rs.	12729	91924	3005	21158
8	Productive capital per employee	Rs.	19969	102281	4377	28630
9	Gross output per employee	"	45288	19977	21963	42112
10	Value added per employee	"	7587	15171	8940	8436
11	Emoluments per employee	"	3785	5860	8230	4092
12	Fixed capital to value added ratio		1.68	6.06	0.34	2.51
13	Fixed capital to gross output ratio		0.28	4.60	0.14	0.50
14	Value added to gross output ratio		0.17	0.76	0.41	0.20
15	Emoluments to value added ratio		0.50	0.39	0.92	0.48
16	Profits to value added ratio		0.32	0.57	0.07	0.37
17	Profits to gross output (%)		5.41	43.00	2.88	7.33
18	Profits to productive capital (%)		12.28	8.40	14.45	10.78
19	Operating surplus to productive capital (%)		19.04	9.10	16.20	15.17

From the above table it may be seen that an average factory had a fixed capital of Rs. 20.93 lakhs, a productive capital of Rs. 28.32 lakhs and employed 99 persons. The gross output per factory and value added per factory were Rs. 41.7 lakhs and Rs. 8.35 lakhs respectively. The amount of fixed capital required to employ one person during the year 1977-78 remained more or less stagnant with Rs. 21158 as against Rs. 21210 during the previous year. Fixed capital per employee and productive capital per employee were higher in the electricity sector and it was lowest in the repair sector. While value added per employee was highest in electricity sector with Rs. 15171, gross output per employee was highest in respect of the repair sector. The emoluments per employee was also highest in the repair sector.

The Capital output co-efficient measured by the ratio of fixed capital to net output was 6.06 for the electricity sector as against 1.68 for manufacturing and 2.51 for the industry as a whole. The co-efficients showing fixed capital requirements and value added generated per unit of output were higher in the electricity sector. The ratio of emoluments to value added was highest in repair sector with 92% as against 59% for manufacturing sector and 48% for all industries. The ratio of profits to gross output was very high in electricity because the input output ratio is very low in the generation of hydel power. But the ratio of profits to productive capital was highest in repair sector while the ratio of operating surplus to productive capital was highest in the manufacturing sector. The ratio of operating surplus to productive capital show a growth of over 3 % over the previous year. The inclusion of units registered under the beedi and cigar workers (conditions of employment) Act 1961 under the purview of the survey for the first time owe much to this growth. It may be observed from the above table that out of every rupee of net national income generated in the factory sector in 1977-78 48 paise went to labour as emoluments and 37 paise as profits to the entrepreneur. The other two factors of production viz. land and capital shared the remaining 15 paise.

SECTION III

ANALYSIS OF MAJOR STRUCTURAL CHARACTERISTICS— ALL INDUSTRIES

3 (a) The establishments surveyed under ASI 1977-78 have been classified into three digit level of Industrial classification and their important structural characteristics are presented in sequence in the following pages

3. (1) **No. of units:**—The total number of units in respect of important industries and the number of large units (census units) in each such group are given in table 3.1 in descending order according to the number of units.

TABLE NO. 3.1

Arrangement of Industries according to number of units

Sl. No.	Code	Name of Industry	Total No. of units	No. of units in (census sector)	% to total
(1)	(2)	(3)	(4)	(5)	(6)
1	271	Saw mills	398	22	14.09
2	226	Manufacture of Beedi	352	46	12.46
3	214	Cashewnut processing	266	218	9.42
4	320	Manufacture of structural clay products	235	57	8.32
5	302	Manufacture of rubber products	110	20	3.90
6	235	Weaving and finishing of textiles— Handlooms	100	10	3.54
7	212	Tea processing	97	39	3.43
8	973	Repair of Motor vehicles	96	26	3.40
9	270	Manufacture of veneers and plywoods	91	17	3.22
10	268	Manufacture of Coir and Coir products	66	12	2.34
11	285	Printing and publishing of books and journals	65	9	2.30
12	203	Canning and processing of fish	56	18	1.98
13	204	Manufacture of grain mill products	54	2	1.91
14	211	Manufacture of other edible oils	45	1	1.59
15	343	Manufacture of metal can and tin plate	34	3	1.20
16	313	Manufacture of drugs and medicines	33	3	1.17
17	289	Printing picture and post cards	32	4	1.13
18	341	Manufacture of structural metal products	28	2	0.99
19	310	Manufacture of organic and inorganic chemicals	28	8	0.99
20	331	Casting and forging of Iron and steel	24	4	0.85
		Miscellaneous products	614	164	21.77
		All Industries	2824	685	100.00

There were 2824 factories in 1977-78 out of this 685 factories were large establishments termed as census sector factories. This formed 24% of the total units Saw mills topped this list with 398 units (14%) followed by beedi manufacturing units. There were only 6 industries with 100 units or more in each of them and the number of industries with 1% share in the number of units amounted to 17.

3. 2. Fixed capital.—The total fixed capital investment in the factory sector for the year 1977-78 is estimated at Rs. 591 crores as against 543 crores during 1976-77. The fixed capital investment was highest in generation and distribution of electric energy with 4.4% of the total fixed capital investment in the factory sector. The second place in fixed capital investment went to the ship building and repairs industry with Rs. 69 crores. This formed only 11.6% of the total fixed capital. These two industries and fertilizers and pesticides, organic and inorganic chemical and cotton spinning and weaving in mills shared more than 73% of the total fixed capital. There were 26 groups of industries with fixed capital investment of Rs. 2 crores and above. Even out of these 26 groups, 18 groups of industries had only less than 1% share of the total fixed capital in each of them. These industries are arranged in descending order according to fixed capital investment in table 3.2.

3.3. Working capital.—The total working capital utilised in the factory sector during 1977-78 is estimated at Rs. 209 crores as against 180 crores during the previous year. The working capital utilisation was highest in electricity undertaking with 15% followed by fertilizers and pesticides with 8% of total of working capital utilization. There were 25 groups of industries with fixed capital utilization of Rs. 2 crores or more during 1977-78. They are arranged in descending order of magnitude in table 3.3.

TABLE 3.2

Arrangement of Industries According to fixed capital

Sl. No.	Code	Name of Industry	Rs. in lakhs	% of total
(1)	(2)	(3)	(4)	(5)
1	40	Generation and transmission of electric energy	27325.914	46.23
2	370	Ship building and repairing	6897.27	11.67
3	311	Manufacture of fertilisers and pesticides	5193.05	8.79
4	310	Manufacture of organic and inorganic chemicals	2599.14	4.40
5	280	Manufacture of paper and paper boards	1312.76	2.22
6	231	Cotton, spinning and weaving in mills	1235.26	2.09
7	316	Manufacture of Turpentine	836.05	1.41
8	360	Manufacture of transformers and electricals	728.37	1.23
9	420	Water supply and collection	582.98	0.99
10	330	Iron and steel Industries	580.37	0.98
11	300	Tyre and tube industries	551.50	0.93
12	302	Manufacture of rubber products others	519.12	0.88
13	247	Spinning and weaving of other textiles	518.35	0.88
14	212	Tea processing	442.58	0.75
15	314	Manufacture of perfumer and lotions	434.73	0.74
16	270	Manufacture of veneers and plywoods	386.28	0.65
17	203	Canning and processing of fish	366.37	0.62
18	329	Manufacture of non-metallic mineral products	364.42	0.62
19	320	Manufacture of structural clay products	339.20	0.57
20	335	Aluminum manufacturing	298.15	0.50
21	211	Manufacture of other edible oils	280.29	0.47
22	361	Manufacture of insulates wires and cables	258.21	0.44
23	214	Cashewnut processing	228.31	0.39
24	362	Manufacture of dry and wet batteries	225.36	0.38
25	350	Manufacture of agricultural machinery and equipments	219.77	0.37
26	367	Manufacture of electric components and accessories	207.65	0.35
		Miscellaneous industries	6177.79	10.45
		All Industries	59109.27	100

TABLE 3.3

Arrangement of Industries According to Working Capital

Sl. No.	Code	Name of Industry	Rs. in lakhs	% of total
(1)	(2)	(3)	(4)	(5)
1	40	Generation and transmission of electric energy	3143.61	15.06
2	311	Manufacture of fertilizers and pesticides	1765.93	8.46
3	370	Ship Building and repairing	1203.59	5.77
4	360	Manufacture of transformers and electricals	953.11	4.57
5	214	Cashewnut processing	937.55	4.49
6	310	Manufacture of organic and inorganic chemicals	791.47	3.79
7	314	Manufacture of perfumes and lotions	638.01	3.06
8	231	Cotton spinning and weaving in mills	603.82	2.89
9	335	Aluminium manufacturing	584.21	2.90
10	300	Tyre and tube industries	558.06	2.67
11	361	Manufacture of insulated wires and cables	555.86	2.66
12	280	Manufacture of paper and paper board	555.38	2.66
13	357	Manufacture of machine tools	447.06	2.14
14	212	Tea processing	396.74	1.90
15	285	Printing and publishing of books and journals	354.12	1.70
16	380	Manufacture of medical and surgical equipments	327.49	1.57
17	203	Canning and processing of fish	310.68	1.49
18	268	Manufacture of coir and coir products	309.43	1.48
19	247	Spinning and weaving of other textiles	299.59	1.44
20	270	Manufacture of veneers and plywood	279.40	1.34
21	302	Manufacture of rubber products-others	276.19	1.32
22	350	Manufacture of agricultural machinery and equipments	272.22	1.30
23	320	Manufacture of structural clay products	240.73	1.15
24	313	Manufacture of drugs and medicines	237.11	1.14
25	364	Manufacture of radio and television	227.19	1.09
		Miscellaneous Industries	4606.59	22.07
		All Industries	20875.14	100.00

TABLE 3.4
Arrangement of Industries According to Productive capital

Sl. No.	Code	Name of Industry	Rs. in lakhs	% of total
(1)	(2)	(3)	(4)	(5)
1	40	Generation and transmission of electric energy		
2	370	Ship building and repairing	30469.55	38.09
3	311	Manufacture of fertilizers and pesticides	8100.86	10.13
4	310	Manufacture of organic and inorganic chemicals	6958.98	8.70
5	280	Manufacture of paper and paper board	3390.61	4.24
6	231	Cotton spinning and weaving in mills	1868.14	2.34
7	360	Manufacture of transformers & electricals	1839.08	2.30
8	214	Cashewnut processing	1681.48	2.10
9	300	Tyre and tube industries	1165.86	1.46
10	314	Manufacture of perfumes and lotions	1109.56	1.39
11	357	Manufacture of machine tools	1072.74	1.34
12	316	Manufacture of turpentine	1027.65	1.28
13	335	Aluminium manufacturing	976.78	1.22
14	212	Tea processing	882.36	1.10
15	247	Spinning and weaving of other textiles	839.32	1.05
16	361	Manufacture of insulated wires and cables	817.94	1.02
17	302	Manufacture of rubber products—Others	814.07	1.02
18	203	Canning and processing of fish	795.31	0.99
19	270	Manufacture of veneers and plywood	677.05	0.85
20	380	Manufacture of medical and surgical equipments	665.67	0.83
21	420	Water supply and collection	661.88	0.83
22	320	Manufacture of structural clay products	583.86	0.73
23	285	Printing and publishing of books and journals	579.93	0.73
24	350	Manufacture of agricultural machinery and equipments	504.77	0.63
25	329	Manufacture of non-metallic mineral products	491.99	0.62
26	268	Manufacture of coir and coir products	446.09	0.56
27	313	Manufacture of drugs and medicines	442.53	0.55
28	330	Iron and steel industries	437.78	0.55
29	367	Manufacture of electric components & accessories	391.82	0.49
30	271	Saw mills	370.93	0.46
31	211	Manufacture of other edible oils	354.95	0.44
32	331	Cotton spinning and weaving in mills	351.11	0.44
33	284	Printing and publishing of newspapers	337.51	0.42
34	217	Manufacture of starch	329.43	0.41
		Miscellaneous Industries	304.60	0.38
		All Industries	8242.22	10.31
			79984.41	100.00

3.4. Productive capital:—Productive capital is the sum total of fixed and working capitals. The total productive capital utilised by the factory sector during 1977-78 is estimated at Rs. 800 crores as against 723 crores during the previous year. There were 34 groups of industries with a productive capital investment of Rs. 3 crores or more during the year 1977-78. Electricity, ship building and repairing, fertilizers and pesticides, organic and inorganic chemicals, cotton textiles in mills & manufacture of transformers and electronics together shared about 66% of the total productive capital investment in the factory sector. There were 16 industries with one per cent share each in productive capital involvement. The industries with productive capital of Rs. 3 crores or more are arranged in descending order of magnitude in table 3.4.

3.5. Invested capital.—Invested capital is the sum of fixed capital and physical working capital. The total invested capital in the factory sector amounted to Rs. 849 crores in 1977-78 as against Rs. 767 crores during the previous year. The invested capital was highest in electricity undertakings with 35% of the total invested capital. The invested capital in electricity, ship building and repairs and fertilizers and pesticides together formed 54% of the total invested capital of the factory sector. There were 13 groups of industries with 1 % share in invested capital. There were altogether 33 industry groups with Rs. 3 crores or more as invested capital and they are arranged in descending order of magnitude in table 3.5. below.

TABLE 3.5

Arrangement of Industries According to invested capital

Sl. No.	Code	Name of Industry	Rs. in lakhs	% of total
(1)	(2)	(3)	(4)	(5)
1	40	Generation and transmission of electric energy	29749.06	35.04
2	370	Ship building and repairing	9199.38	10.84
3	311	Manufacture of fertilizers and pesticides	7069.88	8.32
4	310	Manufacture of organic and inorganic chemicals	3235.42	4.16
5	231	Cotton spinning and weaving in mills	2414.66	2.84
6	280	Manufacture of paper and paper board	1960.98	2.31
7	360	Manufacture of transformers and electricals	1781.56	2.10
8	214	Cashewnut processing	1660.81	1.96
9	314	Manufacture of perfumes and lotions	1221.32	1.44
10	300	Tyre and tube industries	1,82.29	1.39
11	357	Manufacture of machine tools	1177.88	1.39
12	316	Manufacture of turpentine	1006.80	1.19
13	302	Manufacture of rubber products—Others	957.02	1.13
14	247	Spinning and weaving of other textiles	855.74	1.13
15	212	Tea processing	831.62	0.98
16	361	Manufacture of insulated wires and cables	830.07	0.98
17	335	Aluminium manufacturing	802.30	0.95
18	270	Manufacture of veneers and plywood	772.19	0.91
19	330	Iron and steel industries	708.57	0.83
20	203	Canning and processing of fish	646.13	0.76
21	350	Manufacture of agricultural machinery and equipments	630.09	0.74
22	320	Manufacture of structural clay products	604.26	0.71
23	420	Water supply and collection	583.84	0.69
24	211	Manufacture of other edible oils	479.12	0.56
25	268	Manufacture of coir and coir products	472.30	0.56
26	313	Manufacture of drugs and medicines	441.38	0.52
27	329	Manufacture of non-metallic mineral products	435.66	0.51
28	285	Printing and publishing of books & journals	429.12	0.51
29	206	Manufacture and refining of sugar	414.04	0.49
30	331	Casting and forging of iron and steel	384.47	0.45
31	271	Saw mills	316.54	0.37
32	363	Manufacture of electrical lamps and bulbs	308.28	0.38
		Miscellaneous Industries	10930.60	12.88
		All Industries	84893.38	100.00

3.6. Outstanding Loans:—The amount of loans outstanding against the factories of the state was estimated at Rs. 527 crores as against 505 crores during the previous year. Outstanding loans constituted 90% of the total fixed-capital and 67% of the total productive capital respectively of the sector as a whole. Nearly 73% of the total loans was outstanding against five industries viz. Electricity, ship building, organic and inorganic chemicals, cotton textiles in mills and transformers and electricals. The highest amount of outstanding loans was against electricity undertakings with Rs. 291 crores. This constituted nearly .55% of the total loans outstanding against the sector as a whole. Hence it may be seen that loan equity ratio of the electricity undertakings was higher than the average for the sector as a whole. Outstanding loans of the Electricity undertakings constituted 106.6% of the fixed capital and 95.6% of the productive capital respectively. Industries with outstanding loans of Rs. 2 crores and more are presented in table 3.6 in descending order of magnitude.

TABLE 3.6

Arrangement of Industries According to outstanding Loans

Sl. No.	Code	Name of Industry	Rs. in lakhs	% of Total
(1)	(2)	(3)	(4)	(5)
1	40	Generation and transmission of electrical energy	29132.31	55.23
2	370	Manufacture of transformers and electricals	4645.50	8.81
3	310	Manufacture of organic and inorganic chemicals	2215.84	4.20
4	231	Cotton spinning and weaving in mills	1751.36	3.32
5	360	Manufacture of transformers and electricals	1064.32	2.02
6	214	Cashewnut processing	775.32	1.47
7	302	Manufacture of rubber products—Others	717.16	1.36
8	330	Iron and steel industries	717.11	1.36
9	314	Manufacture of perfumes and lotions	680.20	1.29
10	203	Canning and processing of fish	665.20	1.26
11	361	Manufacture of ropes and twines	600.64	1.14
12	280	Manufacture of paper and paper board	489.45	0.93
13	420	Water supply and collection	423.59	0.80
14	206	Manufacture and refining of sugar	420.49	0.80
15	270	Manufacture of veneer and plywood	411.85	0.78
16	380	Manufacture of medical and surgical equipments	403.89	0.77
17	247	Spinning and weaving of other textiles	403.08	0.76
18	357	Manufacture of machine tools	402.01	0.76
19	268	Manufacture of coir and coir products	370.55	0.70
20	331	Casting and forging of iron and steel	332.79	0.63
21	363	Manufacture of electrical lamps and bulbs	327.26	0.62
22	350	Manufacture of agricultural machinery and equipments	316.67	0.60
23	217	Manufacture of starch	272.88	0.52
24	211	Manufacture of other edible oils	261.99	0.50
25	341	Manufacture of structural metal products	242.29	0.46
26	313	Manufacture of drugs and medicines	237.80	0.45
27	284	Printing and publishing of newspapers	236.34	0.45
28	323	Manufacture of chinaware and porcelain ware	225.72	0.43
29	300	Tyre and tube industries	222.68	0.42
30	329	Manufacture of non-metallic mineral products	200.15	0.38
		Miscellaneous Industries	3579.41	6.78
		All Industries	52745.85	100.00

TABLE 3.7

Arrangement of Industries According to Total No. of Workers

Sl. No.	Code	Name of Industry	No.	% of total
(1)	(2)	(3)	(4)	(5)
1	214	Cashewnut processing	94243	40.50
2	40	Generation and transmission of electric energy	20319	8.73
3	226	Manufacture of Beedi	18826	8.09
4	320	Manufacture of structural clay products	10774	4.63
5	231	Cotton spinning and weaving in mills	9489	4.08
6	271	Saw mills	7451	3.20
7	212	Tea processing	4275	1.84
8	235	Weaving and finishing of textiles—Handlooms	3805	1.64
9	302	Manufacture of rubber products—Others	3752	1.61
10	270	Manufacture of veneers and plywood	3433	1.48
11	311	Manufacture of fertilizers and pesticides	3386	1.46
12	973	Repair of motor vehicles	3386	1.46
13	280	Manufacture of paper and paper board	2936	1.26
14	285	Printing and publishing of books and journals	2416	1.04
15	310	Manufacture of organic and inorganic chemicals	2261	0.97
16	268	Manufacture of coir and coir products	2114	0.91
17	360	Manufacture of transformers and electricals	2005	0.86
18	247	Spinning and weaving of other textiles	1894	0.81
19	203	Canning and processing of fish	1707	0.73
20	357	Manufacture of machine tools	1654	0.71
21	206	Manufacture and refining of sugar	1346	0.58
22	300	Tyre and tube industries	1311	0.56
23	314	Manufacture of perfumes and lotions	1255	0.53
24	313	Manufacture of drugs and medicines	1107	0.47
25	370	Ship building and repairing	1049	0.45
		Miscellaneous Industries	26520	11.39
		All Industries	232684	100.00

3.7. Workers:—There were 2.32 lakhs of workers in the factory sector during 1977-78, out of this nearly 41% were in cashewnut processing industry alone. The number of workers in cashewnut processing industry declined from 99970 from the previous year to 94243 in 1977-78. The number of workers in cashewnut processing, Beedi manufacturing, structural clay products, saw mills, Tea and handlooms together constituted 60% of the total workers. There were 25 groups of industries with 1000 or more workers in each of them. These industries are arranged in descending order of magnitude in table 3.7.

3.8. Employment:—Total employment provided by the factory sector during 1977-78 is estimated at 2.79 lakhs as against 2.6 lakhs during the previous year. The number of employees was highest in cashewnut processing industry with 1.02 lakhs. This constituted about 37% of the total employment in the factory sector as against 41.8% during the previous year. Hence it may be seen that employment opportunities have considerably decreased in this industry during the year compared to the previous year. While cashew processing was the industry which employed the largest number of persons Kerala State Electricity Board was the single largest employer. The employment in cashewnut processing, structural clay products, Beedi manufacturing tea, saw mills and handlooms provided nearly 55% of the total employment in the factory sector. Employment opportunities in handlooms also show a declining trend during the year.

The production worker to non-production worker ratio in the factory sector is worked out to 4.9 as against 4.8 during the previous year. Their slight increase in this ratio was due to the fact that a large number of beedi manufacturing units where the production worker to non-production worker ratio is very high was brought under the fold of the survey for the first time. But for the decline in the employment in cashewnut processing industry during the year this ratio might have been still higher.

There were 27 groups of industries with 2000 or more of employment during the year. They are arranged in descending order of magnitude in table 3.8.

TABLE 3.8

**Arrangement of Industries According to Total No.
of Employees**

Sl. No.	Code	Name of Industry	No.	% of total
(1)	(2)	(3)	(4)	(5)
1	214	Cashewnut processing	102055	36.53
2	40	Generation and transmission of electric energy	30223	10.82
3	226	Manufacture of Beedi	19336	6.92
4	320	Manufacture of structural clay products	12098	4.33
5	231	Cotton spinning and weaving in mills	10386	3.72
6	271	Saw mills	8662	3.10
7	212	Tea processing	6049	2.17
8	302	Manufacture of rubber products—Others	4745	1.70
9	311	Manufacture of fertilisers and pesticides	4714	1.69
10	235	Weaving and finishing of textiles—Handlooms	4420	1.58
11	270	Manufacture of veneers and plywood	4205	1.51
12	973	Repair of motor vehicles	3900	1.40
13	280	Manufacture of paper and paper board	3669	1.31
14	310	Manufacture of organic and inorganic chemicals	3409	1.22
15	285	Printing and publishing of books and journals	2862	1.02
16	268	Manufacture of coir and coir products	2737	0.98
17	360	Manufacture of transformers and electricals	2700	0.97
18	203	Canning and processing of fish	2593	0.93
19	357	Manufacture of machine tools	2575	0.92
20	247	Spinning and weaving of other textiles	2361	0.85
21	206	Manufacture and refining of sugar	2287	0.82
22	284	Printing and publishing of newspapers	2202	0.79
23	370	Ship building and repairing	2155	0.77
		Miscellaneous Industries	39025	13.95
		All Industries	279368	100.00

3.9. Wages to workers:—The wages paid to workers in the factory sector during 1977-78 amounted to Rs. 70 crores as against 69.5 crores during the previous year. The quantum of wages paid was highest in cashewnut processing industry with Rs. 8.50 crores closely followed by electricity with 8.4 crores. There were 20 industry groups with an annual wage bill of Rs. one crore or more as against 13 during the previous year. They are arranged in descending order of magnitude in table 3.9. It may be seen that though cashewnut processing workers formed nearly 41% of the total workers their share in the total wage bill of the sector was only 12%. On the other hand 9% of the total workers who find their employment in electricity undertakings shared 12% of the total amount paid as wages. The low average annual earnings per worker in cashewnut processing industry was due to the seasonal nature of that industry. Though average annual earnings per worker was very low in cashewnut processing industry, average daily wages was lower in saw mills. The average daily wage per worker in Aluminium manufacturing was the highest followed by inorganic and organic heavy chemicals. Wide disparity in average daily wages for the workers exist between industries.

Wages, salaries, loans and imputed value of benefits in kind together constitute emoluments. The total amount thus paid by the factory sector during the year under report is estimated at Rs. 114 crores as against 99 crores during the previous year. The highest amount of emoluments paid to employees was in electricity undertakings followed by cashewnut processing industry. These two industries together contributed 26% of the total amount spent as emoluments as against 30% during the previous year. There were 28 groups of industries with a wage bill of Rs. 1 crore or more as against 22 during the previous year. They are arranged in descending order of magnitude in Table. 3.10

TABLE 3.9

**Arrangement of Industries According to Wages
Given to Workers**

Sl. No.	Code	Name of Industry	Average daily wage/worker (Rs. in lakhs)	% of total
(1)	(2)	(3)	(4)	(5)
1	214	Cashewnut processing	850.05	12.10
2	40	Generation and transmission of electric energy	840.38	11.96
3	231	Cotton spinning and weaving in mills	525.90	7.48
4	226	Manufacture of Beedi	403.57	5.75
5	311	Manufacture of fertilizers and pesticides	324.66	4.62
6	320	Manufacture of structural clay products	305.97	4.36
7	310	Manufacture of organic and inorganic chemicals	272.94	3.89
8	973	Repair of motor vehicles	230.05	3.23
9	247	Spinning and weaving of other textiles	150.89	2.15
10	302	Manufacture of rubber products—Others	150.04	2.14
11	285	Printing and publishing of books and journals	139.02	1.98
12	280	Manufacture of paper and paper board	137.69	1.96
13	212	Tea processing	133.99	1.91
14	310	Manufacture of transformers and electricals	131.78	1.88
15	271	Saw mills	128.32	1.83
16	314	Manufacture of perfumes and lotions	125.35	1.78
17	335	Aluminium manufacturing	112.41	1.60
18	300	Tyre and tube industries	111.07	1.58
19	357	Manufacture of machine tools	109.01	1.55
20	235	Weaving and finishing of textiles— Handloom	103.93	1.48
		Miscellaneous Industries	1736.89	24.71
		All Industries	7023.91	100.00

TABLE 3.10

Arrangement of Industries According to Total Emoluments

Sl. No.	Code	Name of Industry	Rs. in lakhs	% to total
(1)	(2)	(3)	(4)	(5)
1	40	Generation and transmission of electric energy	1770.77	15.49
2	214	Cashewnut processing	1184.24	10.36
3	231	Cotton spinning and weaving in mills	659.59	3.77
4	311	Manufacture of fertilizers and pesticides	534.66	4.68
5	310	Manufacture of organic and inorganic chemicals	482.97	4.23
6	226	Manufacture of beedi	448.65	3.93
7	320	Manufacture of structural clay products	400.18	3.50
8	280	Manufacture of paper and paper board	332.65	2.91
9	973	Repair of motor vehicles	292.72	2.56
10	300	Tyre and tube industries	238.54	2.09
11	247	Spinning and weaving of other textiles	237.77	2.08
12	302	Manufacture of rubber products—Others	237.35	2.08
13	360	Manufacture of transformers and electricals	232.07	2.03
14	357	Manufacture of machine tools	229.23	2.01
15	370	Ship building and repairing	228.45	2.00
16	212	Tea processing	200.87	1.76
17	335	Aluminium manufacturing	192.34	1.68
18	284	Printing and publishing of newspapers	186.87	1.63
19	285	Printing and publishing of books and journals	179.33	1.57
20	271	Saw mills	168.93	1.43
21	314	Manufacture of perfumes and lotions	156.25	1.37
22	270	Manufacture of veneers and plywoods	154.93	1.36
23	235	Weaving and finishing of textiles—handlooms	149.88	1.31
24	361	Manufacture of insulated wires and cables	135.09	1.18
25	268	Manufacture of coir and coir products	130.45	1.14
26	316	Manufacture of turpentine	125.86	1.10
27	313	Manufacture of drugs and medicines	115.30	1.01
28	380	Manufacture of medical and surgical instruments	104.92	0.92
		Miscellaneous Industries	1919.45	16.77
		All Industries	11430.36	100.00

3.11

Input:—The total inputs consumed by the factory sector during the year 1977-78 is estimated at Rs. 907 crores as against 781 crores during the previous year. Out of this 86% was in materials, 5% in fuels and the remaining 9% was in other items of input. While the percentage share of fuels consumed in the total input remained the same the percentage share of materials has gone up by 3% over the previous year. Consequently the percentage utilisation of other inputs show a decreasing trend during the year under report. The highest share in the consumption of inputs came from cashewnut processing industry (8%) followed by fertilizers and pesticides (5%), as in the previous year. There were 27 groups of industries with a consumption of inputs worth Rs.5 crores or more. They are arranged in descending order of magnitude in Table 3.10.

TABLE 3.11

Arrangement of Industries According to Total Input

Sl. No.	Code	Name of Industry	Rs. in lakhs	% to total
1	214	Cashewnut processing	7623.72	8.41
2	311	Manufacture of fertilizers and pesticides	4924.97	5.43
3	231	Cotton spinning and weaving in mills	4237.32	4.67
4	212	Tea processing	3429.30	3.78
5	314	Manufacture of perfumes and lotions	2950.35	3.25
6	302	Manufacture of rubber products - Others	2921.80	3.22
7	211	Manufacture of other edible oils	2834.60	3.13
8	203	Canning and processing of fish	2495.82	2.75
9	310	Manufacture of organic and inorganic chemicals	2167.63	2.39
10	361	Manufacture of insulated wires & cables	1735.75	1.91
11	258	Manufacture of coir and coir products	1450.51	1.60
12	300	Tyre and tube industries	1410.00	1.55
13	280	Manufacture of paper and paper board	1394.29	1.54
14	335	Aluminium Manufacturing	1387.60	1.53
15	226	Manufacture of beedi	1266.67	1.40
16	247	Spinning and weaving of other textiles	1245.14	1.37
17	284	Printing and publishing of new-papers	1100.42	1.21
18	360	Manufacture of transformers & electricals	1083.05	1.19
19	316	Manufacture of turpentine	1057.05	1.17
20	270	Manufacture of veneers and plywood	940.16	1.04
21	271	Saw mills	870.04	0.96
22	40	Generation and transmission of electric energy	732.40	0.81
23	235	Weaving and finishing of textiles-handloom	718.06	0.79
24	204	Manufacture of grain mill products	663.81	0.73
25	973	Repair of motor vehicles	634.21	0.70
26	370	Ship building and repairing	623.88	0.69
27	313	Manufacture of drugs and medicines	542.33	0.60
		Miscellaneous Industries	38235.22	42.18
		All Industries	90676.12	100.00

3.12 Output:—The gross value of goods and services produced in the factory sector during 1977-78 is estimated at Rs. 1176 crores as against Rs. 1009 crores during the previous year. The value of output was highest in cashewnut processing industry with Rs. 98 crores followed by fertilizers and pesticides with Rs. 59 crores. There were 32 industry groups with an output of Rs. 5 crores or more during the year. They are arranged in descending order of magnitude in table 3.12.

TABLE 3.12

Arrangement of Industries According to Total Output

Sl. No.	Code	Name of Industry	Rs. in lakhs	% to total
1	214	Cashewnut processing	9751.88	8.29
2	311	Manufacture of fertilisers and pesticides	5887.63	5.00
3	40	Generation and transmission of electric energy	5866.46	4.99
4	212	Tea processing	5599.98	4.76
5	231	Cotton spinning and weaving in mills	5262.02	4.47
6	302	Manufacture of rubber products—Others	3819.61	3.25
7	314	Manufacture of perfumes and lotions	3659.16	3.11
8	310	Manufacture of organic and inorganic chemicals	3470.40	2.95
9	211	Manufacture of other edible oils	289.31	2.46
10	203	Canning and processing of fish	2739.26	2.33
11	280	Manufacture of paper and paper board	2492.24	2.12
12	361	Manufacture of insulated wires and cables	2088.09	1.77
13	335	Aluminium manufacturing	1999.84	1.70
14	300	Manufacture of organic and inorganic chemicals	1957.81	1.66
15	226	Manufacture of beedi	1718.88	1.46
16	268	Manufacture of coir and coir products	1716.90	1.46
17	247	Spinning and weaving of other textiles	1683.58	1.43
18	360	Manufacture of transformers and electricals	1622.27	1.38
19	284	Printing and publishing of newspaper	1477.35	1.23
20	270	Manufacture of veneers and plywood	1407.61	1.20
21	271	Sawmills	1151.30	0.98
22	316	Manufacture of turpentine	1146.14	0.97
23	973	Repair of motor vehicles	977.23	0.83
24	235	Weaving and finishing of textiles—handlooms	939.99	0.80
25	313	Manufacture of drugs and medicines	861.50	0.73
26	370	Ship building and repairing	816.75	0.69
27	357	Manufacture of machine tools	734.44	0.62
28	204	Manufacture of grain mill products	718.73	0.61
29	380	Manufacture of medical and surgical instruments	628.98	0.53
30	331	Casting and forging of iron and steel	572.74	0.49
31	330	Iron and steel industries	522.23	0.44
32	362	Manufacture of dry and wet batteries	511.98	0.44
		Miscellaneous Industries	40979.29	34.85
		All Industries	117647.58	100.00

3.13. Value added by manufacture:—Value added by manufacture or net output provides a measure of the contribution made by resources of labour and capital in producing the output of an activity and is obtained by deducting the total value of input and depreciation from the total value of output.

The value added by manufacture in the factory sector is estimated at Rs. 236 crores as against 195 crores during the previous year. The maximum contribution towards value added came from electricity undertaking with 19% of the total value added followed by tea with 9%. Cashewnut processing which occupied the second place in this respect last year had slid down to the third place this year. There were 26 group of industries with a value added by manufacture for more than Rs. 2 crores. They are arranged in descending order of magnitude in table 3.13.

TABLE 3.13

Arrangement of Industries According to Value Added

Sl. No.	Code	Name of Industry	Rs. in lakhs	% of total
1	40	Generation and transmission of electric energy	4515.40	19.16
2	212	Tea processing	2124.00	9.01
3	214	Cashewnut processing	2101.98	8.92
4	280	Manufacture of paper and paper board	981.21	4.16
5	310	Manufacture of organic and inorganic chemicals	977.68	4.15
6	231	Cotton spinning and weaving in mills	917.31	3.89
7	302	Manufacture of rubber products—Others	831.79	3.53
8	314	Manufacture of perfumes and lotions	679.31	2.88
9	320	Manufacture of structural clay products	578.81	2.46
10	335	Aluminium manufacturing	576.30	2.45
11	300	Tyre and tube industries	510.35	2.17
12	360	Manufacture of transformers and electricals	476.80	2.02
13	226	Manufacture of beedi	450.65	1.91
14	270	Manufacture of veneers and plywood	418.52	1.78
15	247	Spinning and weaving of other textiles	377.91	1.60
16	973	Repair of motor vehicles	331.80	1.41
17	284	Printing and publishing of newspapers	331.53	1.41
18	361	Manufacture of insulated wires and cables	323.12	1.37
19	313	Manufacture of drugs and medicines	303.18	1.29
20	311	Manufacture of fertilizers and pesticides	268.80	1.14
21	271	Saw mills	265.58	1.13
22	268	Manufacture of coir and coir products	254.74	1.08
23	357	Manufacture of machine tools	221.36	0.94
24	235	Weaving and finishing of textiles—handloom	213.57	0.91
25	380	Manufacture of medical and surgical equipments	207.81	0.88
26	203	Canning and processing of fish	201.47	0.85
		Miscellaneous Industries	4126.96	17.50
		All Industries	23567.94	100.00

3.14. Net income:—Net income represents the share of employees and entrepreneur in the value added and is obtained by deducting the factor payments to others from the value added.

The total net income generated in the factory sector during 1977-78 is estimated at Rs. 201 crores as against Rs. 164 crores during the previous year. The highest amount of net income generated was in electricity undertakings followed by tea. Cashewnut processing which had the second largest contribution towards total net income of the sector during the last few years has gone down to the third place during the year under report. There were 29 groups of industries with a combined net income of Rs. 1 crore or more. They are arranged in descending order of magnitude in table 3.14.

TABLE 3.14
Arrangement of Industries According to Net Income

Sl. No.	Code	Name of Industry	Rs. in lakhs	% to total
1	40	Generation and transmission of electric energy	4337.45	21.59
2	212	Tea processing	2121.91	10.56
3	214	Cashewnut processing	1937.08	9.64
4	280	Manufacture of paper and paper board	915.94	4.56
5	302	Manufacture of Rubber products—Others	753.41	3.75
6	231	Cotton spinning and weaving in mills	736.13	3.66
7	310	Manufacture of organic and inorganic chemicals	699.02	3.48
8	314	Manufacture of perfumes and lotions	574.40	2.86
9	335	Aluminium manufacturing	573.71	2.86
10	320	Manufacture of structural clay products	543.01	2.70
11	226	Manufacture of beedi	446.79	2.22
12	300	Tyre and tube industries	401.36	2.00
13	270	Manufacture of veneers and plywoods	363.75	1.81
14	360	Manufacture of transformers and electricals	334.17	1.66
15	973	Repair of motor vehicles	328.08	1.63
16	247	Spinning and weaving of other textiles	296.93	1.48
17	284	Printing and publishing of newspaper	282.44	1.41
18	313	Manufacture of drugs and medicines	276.16	1.37
19	271	Saw mills	243.27	1.27
20	361	Manufacture of insulated wires and cables	230.40	1.15
21	268	Manufacture of coir and coir products	224.79	1.12
22	235	Weaving and finishing of textiles—handlooms	200.48	1.00
		Miscellaneous Industries	3270.01	16.28
		All Industries	20099.69	100.00

TABLE 3.15

Structural Ratios in Selected Industries

Sl. No.	Industry code	Description of Industry	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
						Fixed capital per employee (Rs.)	Emoluments/employee (Rs.)	Output/employee (Rs.)	Value added/employee (Rs.)	Input/output ratio
1	40	Generation and transmission of electric energy				90414	5859	19411	14940	0.12
2	203	Canning, preserving and processing of fish				14129	2833	105641	7769	0.91
3	212	Tea processing				7317	3321	92577	35113	0.63
4	214	Cashewnut processing				224	1160	9556	2060	0.78
5	226	Beedi Manufacturing				71	2320	8890	2331	0.74
6	231	Cotton spinning and Weaving in mills				11894	6351	50665	8832	0.81
7	235	Spinning, weaving and finishing of cotton, textiles in hand looms				1740	3391	21267	4832	0.76
8	247	Spinning, weaving and finishing of other textiles				21955	10071	71308	16006	0.74
9	268	Coir manufacturing				4845	4766	62729	9307	0.84
10	270	Manufacture of veneers and plywood				9186	3684	33475	9953	0.67
11	271	Saw mills				1712	1950	13291	6316	0.76
12	280	Manufacture of pulp, paper and paper board				35780	9067	67927	26743	0.56
13	284	Printing and publishing of newspapers				6161	8486	65729	15056	0.76
14	300	Tyre and tube industries				30862	13348	109558	28559	0.72
15	302	Manufacture of rubber products—Others				10940	5002	80498	17530	0.76

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
16	310	Manufacture of organic and inorganic chemicals	76243	14167	101801	28679	0.62
17	311	Manufacture of fertilisers and pesticides	110162	11342	124897	5702	0.84
18	313	Manufacture of drugs and medicines	12199	7009	52370	18430	0.63
19	314	Manufacture of perfume, cosmetics, soaps etc.	27376	9839	230423	42777	0.80
20	320	Manufacture of structural lay products	2804	3308	8904	4784	0.44
21	335	Aluminium manufacturing	26108	16842	175117	50464	0.69
22	357	Manufacture of machine tools	22547	8902	28521	8596	0.59
23	360	Manufacture of electrical industrial machinery apparatus and parts	26977	8595	60084	17659	0.67
24	361	Manufacture of insulated wires and cables	18107	9473	146429	22659	0.83
25	380	Manufacture of medical, surgical and scientific equipments	30706	9635	57757	19082	0.62
26	973	Repair of motor vehicles	3636	7583	25057	8507	0.65

SMT 37/513/82

(7)

Sl. No.	Industry code	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
			Ratio of fixed capital to output	Ratio of fixed capital to value added	Ratio of value added to output	Ratio of employment to value added	Ratio of profits to value added	Ratio of profits to gross output	Ratio of profits to productive capital	Ratio of op. surplus to output	Ratio of op. surplus to capital	Ratio of op. surplus to prod. capital
1	40	4.66	6.05	0.77	0.39	0.57	0.44	0.08	0.47	0.09	0.09	0.09
2	203	0.13	1.82	0.07	0.36	0.20	0.01	0.06	0.05	0.19	0.05	0.19
3	212	0.08	0.21	0.38	0.09	0.90	0.34	2.29	0.34	2.29	0.34	2.29
4	214	0.02	0.11	0.22	0.56	0.36	0.08	0.64	0.09	0.19	0.09	0.19
5	226	0.01	0.03	0.26	1.00	0.004	0.001	0.03	0.001	0.03	0.001	0.03
6	231	0.23	1.35	0.17	0.72	0.08	0.01	0.04	0.05	0.14	0.05	0.14
7	235	0.08	0.36	0.23	0.70	0.24	0.05	0.27	0.07	0.34	0.07	0.34
8	247	0.31	1.37	0.22	0.63	0.16	0.04	0.07	0.08	0.17	0.08	0.17
9	268	0.08	0.52	0.15	0.51	0.37	0.05	0.21	0.07	0.28	0.07	0.28
10	270	0.27	0.92	0.30	0.37	0.50	0.15	0.31	0.19	0.34	0.19	0.34
11	271	0.16	0.69	0.23	0.64	0.28	0.06	0.21	0.08	0.27	0.08	0.27
12	280	0.53	1.34	0.39	0.34	0.59	0.23	0.31	0.26	0.35	0.26	0.35
13	284	0.09	0.41	0.23	0.56	0.29	0.07	0.29	0.10	0.44	0.10	0.44
14	300	0.28	1.08	0.26	0.41	0.32	0.08	0.15	0.14	0.24	0.14	0.24

15	302	0.14	0.62	0.22	0.29	0.62	0.14	0.65	0.16	0.75
16	310	0.75	2.66	0.28	0.49	0.22	0.06	0.06	0.14	0.15
17	311	0.88	19.32	0.05	1.99	2.91	0.13	0.11	0.04	0.04
18	313	0.23	0.66	0.35	0.25	0.53	0.19	0.37	0.22	0.80
19	314	0.12	0.64	0.19	0.23	0.62	0.11	0.39	0.14	0.49
20	320	0.31	0.59	0.54	0.69	0.25	0.13	0.25	0.17	0.31
21	335	0.15	0.52	0.29	0.33	0.66	0.19	0.43	0.19	0.43
22	357	0.79	2.62	0.30	1.04	0.41	0.12	0.09	0.01	0.007
23	360	0.45	1.53	0.29	0.49	0.21	0.06	0.06	0.15	0.14
24	361	0.12	0.80	0.15	0.42	0.29	0.05	0.12	0.09	0.23
25	380	0.53	1.61	0.33	0.50	0.29	0.10	0.09	0.16	0.37
26	973	-0.15	0.43	0.34	0.89	0.19	0.03	0.16	0.04	0.18

3.15. Structural ratios of selected industries:—Some important structural ratios in respect of 26 industries have been worked out and presented in table 3.15. These industries have been selected on the basis of their contribution towards value added by manufacture.

The table reveals that capital employee ratio was very high in electricity undertakings with Rs. 90,414 while it was very low in beedi industry with only Rs. 71 against a state average of Rs. 21,168. The amount of fixed capital required to employ one person in cashew processing industry which absorbs a sizable portion of the industrial labour was the second lowest with Rs. 223 out of the 26 industries considered the fixed capital per employee was less than state average in 15 industries. Out of the remaining 11 industries only two industries viz. Electricity undertaking and fertilizers and pesticides had a capital employee ratio of more than Rs. 50,000.

Productivity of labour as measured by output per employee was lowest in beedi manufacturing with Rs. 3,889 while it was the highest in soaps and glycerine with Rs. 2.3 lakhs as against Rs. 42,168 for all industries together. The output per employee was less than the state average in highly capital intensive industries like Electricity and machine tools besides labour intensive traditional industries like cashewnut processing, saw mills, beedi, structural clay products and repair services.

Value added per employee was highest in respect of Aluminium manufacturing while it was lowest in cashew nut processing. Value added per employee in cashewnut processing, beedi, saw mills and inorganic and organic chemicals and structural clay products industries was less than the average for all industries of Rs. 8,450.

The average annual earnings of an employee was lowest in cashewnut processing with only Rs. 1,160 as against Rs. 16,842 for aluminium manufacturing and Rs. 4,042 for the sector as a whole. The average annual earnings per employee in cashew nut processing, beedi manufacturing and saw mills were less than the state average. It is worthwhile to note that about 47% of the total employment was in these three industries alone. At the same time the average emoluments per employee in 12 industries were more than double that of the state average.

The input-output ratio in industries show an increasing trend during 1977-78 with 0.78 as against 0.77 during the previous year. Out of the 25 industries considered this ratio was highest in canning and processing of fish with 0.91 while it was very low in electricity with 0.12 and low in structural clay products with 44 as usual.

The amount of fixed capital required to produce output worth Re. 1 was highest in electricity with Rs. 466 as against one paise for beedi, 2 paise for tea and 50 paise for all industries. This shows that while beedi and tea industries are highly labour intensive electricity undertakings are highly

capital intensive. Chemical fertilizers and pesticides, organic and inorganic heavy chemicals, machine tools and their parts are the other important industries which required capital above all industries average to produce a unit of output.

The amount required to generate value added worth Re. 1 was very high in heavy chemicals with Rs. 19.32 as against Rs 6.85 in electricity and Rs. 2.51 for the sector as a whole. The amount required for the same was only 3 paise in beedi and 11 paise in cashewnut processing industry. The capital output co-efficient (ratio of fixed capital to value added) in processing and earning of fish, cotton textiles in mills, rayons, tyres and tube, machine tools, electrical machinery and parts and medical and surgical equipments were higher than 1.

The ratio of value added to output was highest in electricity with 0.77 and was lowest in heavy organic and inorganic chemicals with 0.05 against a state average of 0.20. The ratio was lower in ironing and processing of fish, cotton textiles, coir, organic and cables chemicals, soaps and glycerine and insulated wires and cables than the state average.

The ratio of emoluments to value added was highest in organic and inorganic chemicals worth 1.04 as against 0.48 for the sector as a whole. In beedi 99.9% of value added formed wages alone while in tea wages formed only 9% of the value added. Though aluminium industry paid the highest wages the ratio of emoluments to value added was less than the ratio for all industries.

The ratio of return on capital measured by the ratio of operating surplus to productive capital was lowest in beedi with 3% while organic and inorganic chemicals and machine tools industries were at a loss. The rate of returns on capital was highest in tea with 2.29 as against a state average of 0.15. The ratio of operating surplus to productive capital show substantial progress during the current year. The rate of return on capital on electricity, beedi, cotton textiles and electrical machinery and parts were also less than the state average.

SECTION IV

RELATIVE IMPORTANCE OF INDUSTRIES

Principal characteristics:—In order to assess the relative importance of industries in the factory sector the establishments covered in the ASI 1977-78 have been classified into major industry groups (two digit level of classification) and are ranked according to their contribution towards value added by manufacture. In table 4.2 their principal aggregates have been presented.

TABLE 4.1
Ranking of major industry groups

Sl. No.	Code	Name of Industry	Value added Rs. crores	Rank
1	20-21	Manufacture of food products	50.22	1
2	22	Manufacture of beverage tobacco and tobacco products	5.81	12
3	23	Manufacture of cotton textiles	11.75	6
4	24	Manufacture of wood silk and synthetic fibre Textiles	3.79	14
5	26	Manufacture of textiles products (weaving appeared other than footwear)	10.19	8
6	27	Manufacture of wood and wood products furniture and fixtures	7.97	9
7	28	Manufacture of paper and paper products and printing, publishing salted industry	15.89	5
8	30	Manufacture of Rubber, plastic and petroleum products	19.90	4
9	31	Chemicals and chemical products	23.06	3
10	32	Manufacture of non-metallic mineral product	7.48	11
11	33	Basic metal and alloy industries	7.55	10
12	34	Manufacture of metal products and parts except machinery and transport equipment	2.59	16
13	35	Manufacture of machinery, Machine tools and parts except electrical machinery	3.13	15
14	36	Manufacture of electrical machinery, apparatus appliances and parts	11.55	7
15	37	Manufacture of transfer equipment and part	1.97	18
16	38	Other Manufacturing Industries	2.18	17
17	40	Electricity	45.15	2
18	42	Water works and supply	0.91	19
19	91	Sanitary services	0.03	20
20	97	Repair services	4.55	13

According to the ranking the first place is occupied by the manufacture of food products. This industry accounted for 21% of the total state income, generated in the manufacturing sector by employing more than 42% of the total employment. The gross value of output produced by this group constituted nearly 21% of the total output in the factory sector. It shows that the food products industries dominate the industrial scene of the state, and are labour intensive in character. Power generation and distribution industries occupied the second place. This industry is highly

TABLE 4.2

Principal characteristics by Major industry groups

(Rs. in lakhs)

Sl. No.	Industry code	Name of Industry	No. of units	Fixed capital	Working capital	Productive capital	Invested capital
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	20 & 21	Manufacture of food products	582	1946.33	2162.60	4108.93	4862.48
2	22	Manufacture of beverages, tobacco and tobacco products	367	293.06	271.90	564.96	611.42
3	23	Manufacture of cotton textiles	152	1351.77	746.85	2098.62	2716.82
4	24 **	Manufacture of wool, silk and synthetic fibre textiles	5	521.58	300.00	821.58	959.14
5	26	Manufacture of textile products including wearing apparel other than foot wear	83	402.30	1206.55	1608.85	1442.69
6	27	Manufacture of wood and wood products, furniture	535	634.64	547.60	1182.24	1269.31
7	28	Manufacture of paper and paper products and printing and publishing and allied industries	134	1756.66	1215.34	2972.00	2913.78
8	30	Manufacture of rubber, petroleum and coal products	141	2562.28	1562.13	4124.41	5990.12

TABLE 4.2 (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
9	31	Manufacture of chemical and chemical products except products of petroleum and coal	121	9329.40	3605.46	12934.86	13378.30
10	32	Manufacture non-metallic mineral products	258	936.73	436.68	1371.41	1426.56
11	33	Basic metal and alloys industries	41	1227.92	1081.14	2309.06	2458.96
12	34	Manufacture of metal products and parts except machinery and transport equipment	117	237.61	284.19	521.80	650.53
13	35	Manufacture of machinery, machine tools and parts except electrical machinery	72	867.13	649.21	1516.34	1935.47
14	36	Manufacture of electrical machinery, apparatus, appliances and supplies and parts	46	1661.12	1942.76	3603.88	3808.91
15	37	Manufacture of transport equipment and parts	31	6971.74	1314.28	8286.02	9328.59
16	38	Other manufacturing industries	21	340.18	334.25	674.43	708.29
17	40	Electricity	7	27325.94	3143.61	30469.55	29749.06
18	42	Water works and supply	4	582.98	0.88	583.86	53.86
19	91	*** Services	4	6.00	0.11	6.89	87.02
20	97	Repair services	103	152.90	69.82	222.72	192.07
Grand Total			2824	59109.27	20875.14	79984.41	84893.38

** includes 2 units of industry group 25

*** includes 2 units of industry group 96

TABLE 4.2 (Contd)

Sl. No.	Industry code	Outstanding loans	No. of persons employed	Total employment	Total investment	Total output	Depreciation	Value added	Factory payments	Net Income
(1)	(2)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1	20-21	2648.36	117805	1712.49	19182.07	24389.58	185.09	5022.42	415.12	4607.30
2	22	210.83	19816	488.42	912.72	2532.87	38.85	581.30	29.17	552.13
3	23	1916.37	15875	850.08	5143.16	6438.44	120.42	1174.86	199.16	975.70
4	24 *	405.54	2424	238.81	1249.30	1699.39	60.87	379.22	81.07	298.15
5	26	929.59	5703	359.49	3241.89	4293.38	32.93	1018.56	102.88	915.68
6	27	638.16	14285	99.96	2012.84	2879.47	69.66	796.97	86.98	709.99
7	28	851.51	10146	757.93	3040.30	484.69	155.58	1588.81	134.89	453.92
8	30	1429.73	7207	562.84	30687.49	32994.89	307.53	1989.87	191.80	1798.07
9	31	3340.50	13287	1430.08	11883.96	15309.81	1119.77	2306.08	939.96	1366.12
10	32	857.02	14174	544.43	933.46	1743.05	61.92	747.67	69.86	677.81
11	33	1097.82	3777	377.82	3186.95	4060.09	117.69	755.45	113.21	642.24
12	34	475.56	3435	158.55	830.37	1109.45	19.76	259.32	74.25	185.07
13	35	772.11	4159	309.09	783.13	1192.17	96.46	312.58	96.37	216.21
14	36	2437.61	6383	550.02	3804.21	5111.89	152.43	1155.25	358.40	796.85
15	37	4745.06	4017	379.41	924.54	1269.52	147.64	197.34	358.97	161.63
16	38	418.37	1338	110.70	422.87	670.45	29.31	218.27	43.38	174.89
17	40	29132.31	30223	1770.77	732.40	5866.46	618.66	4515.40	177.95	4337.45
18	42	423.59	138	8.31	51.79	198.70	56.34	90.57	41.19	49.38
19	91 *	1.78	40	2.40	2.42	5.78	0.22	3.14	0.14	3.00
20	97	14.03	5088	418.76	650.25	1117.50	12.39	454.86	3.90	450.96
Grand Total		52745.85	279368	11430.36	90676.12	1,7647.58	3103.52	23367.94	3518.63	20049.29

* Include two units of Industry code 25

** Include two units of Industry code 96

Important structural ratios of

Sl. No.	Industry code	Description of Industry	Fixed capital/ employee (Rs.)
(1)	(2)	(3)	(4)
1	20-21	Manufacture of food products	1652
2	22	Manufacture of Beverages, Tobacco and Tobacco products	1475
3	23	Manufacture of cotton textiles	8515
4	24	Manufacture of wool, silk and synthetic fibre textiles	21517
5	26	Manufacture of Textile products including wearing	7054
6	27	Manufacture of wood and wood products, furniture	4443
7	28	Manufacture of paper and paper products and printing publishing and allied industries.	17314
8	30	Manufacture of rubber, plastic, petroleum and coal products	35553
9	31	Manufacture of chemical and chemical products except products of petroleum and coal	70214
10	32	Manufacture of non-metallic mineral products	6609
11	33	Basic metal and alloy industries	32510
12	34	Manufacture of metal products and parts except Machinery and Transport equipment	6917
13	35	Manufacture of machinery, machine tools and parts except electrical machinery	13585
14	36	Manufacture of electrical machinery, apparatus, appliances and supplies and parts	26024
15	37	Manufacture of Transport equipment and parts	173556
16	38	Other Manufacturing Industries	25425
17	40	Electricity	90414
18	42	Waterworks and supply	422449
19	91	Sanitary services	15000
20	97	Repair services	3005

4.3

industry by groups major

Emoluments/ employee (Rs.)	Output/ employee (Rs.)	Value added/ employee (Rs.)	Input output ratio	Ratio of F.C. to output	Ratio of F.C. to value added	Ratio of value added to output	Ratio of emolum- ents to value added	Ratio of operating surplus to prod. capital.
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1454	20703	4263	0.78	0.07	0.33	0.21	0.34	0.81
2459	12751	2926	0.75	0.11	0.50	0.23	0.84	0.16
5355	40557	7401	0.79	0.20	1.15	0.18	0.72	0.15
9852	70107	15644	0.73	0.30	1.37	3.22	0.63	0.17
6304	75283	17860	0.75	0.09	0.39	0.24	0.35	0.41
2800	20157	5579	0.69	0.22	0.79	0.28	0.50	0.34
7470	47158	15659	0.63	0.36	1.10	0.33	0.48	0.28
7810	457679	27610	0.93	0.07	1.28	0.06	0.23	0.35
10763	115224	17356	0.77	0.60	4.04	0.15	0.62	0.07
3841	12298	5275	0.53	0.53	0.98	0.43	0.73	0.15
10003	107495	20001	0.78	0.30	1.62	0.19	0.50	0.16
4616	32298	7549	0.74	0.21	0.91	0.23	0.61	0.19
7432	28665	7516	0.65	0.72	2.77	0.26	0.99	0.002
8617	80086	18099	0.74	0.32	1.43	0.23	0.48	0.17
9445	31604	4913	0.72	5.49	35.32	0.16	1.92	0.02
8274	50108	16313	0.63	0.50	1.55	0.33	0.51	0.16
5859	19411	14940	0.12	4.65	6.05	0.77	3.39	0.09
6022	143986	65630	0.26	2.93	6.43	0.46	0.09	0.14
6000	14450	7850	0.41	1.03	1.91	0.54	0.76	0.11
8230	12780	8940	0.53	0.13	0.33	0.41	0.92	0.10

capital intensive and accounts for more than 46% of the total fixed capital investment in the sector as a whole. Rubber & plastic industries which has high potential for development in the state had only fourth place just below chemical industries.

4.3. Structural ratios in respect of these major groups are presented in table 4.3. The fixed capital required to employ one person was lowest in the manufacture of beverages, tobacco and tobacco products with Rs. 14575 and the same was highest in water works and supply. The emoluments for employee was lowest in the food group worth Rs. 1454 and the same was highest in basic metal and alloy industries—output per employee was lowest in non-metallic mineral products undertake with Rs. 12298 and the same was highest in rubber, plastic, petroleum and coal products industries. Value added per employee was also lowest in beverages, tobacco and tobacco products, industries while it was highest in respect of basic metal and alloy industries high in rubber, plastic and petroleum products while it was lowest in generation and transmission of electric energy.

SECTION V

5. **District-wise analysis of selected industrial characteristics—all industries**— The district-wise distribution of industries and their major industrial characteristics and their respective percentages are presented in table 5.1. and 5.2 respectively. Industry-wise details of major industrial characteristics in each district are given in table 5.3 to 5.13 with the aid of these tables an analysis of industrial importance of the districts is attempted to in the following pages.

TABLE 5.1

Selected characteristics—District-wise distribution—All industries

Sl. No.	Item	Trivandrum	Quilon	Alleppey	Kottayam	Idukki	Ernakulam
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	No. of units (No.)	114	397	149	129	91	359
2.	Fixed capital (Rs. in lakhs)	28438.08	1774.05	1301.90	609.10	346.34	20070.45
3.	Working capital (Rs. in lakhs)	4329.39	2109.32	840.77	329.59	362.34	8800.84
4.	Productive capital (Rs. in lakhs)	32767.47	3883.37	2142.67	938.69	708.68	28371.29
5.	Invested capital (Rs. in lakhs)	31863.51	4302.14	2561.44	1198.79	701.55	32771.43
6.	Outstanding loans (Rs. in lakhs)	30805.00	2846.55	1693.49	933.35	10.59	11164.99
7.	Number of workers (No.)	33113	89766	9222	4203	4188	23320
8.	All employees (No.)	45240	99404	11775	5804	4770	32314
9.	Wages to workers (Rs. in lakhs)	1398.00	1058.82	290.50	197.22	107.74	1770.66
10.	Total emoluments (Rs. in lakhs)	2567.35	1608.58	494.76	344.20	162.81	2925.27
11.	Total input (Rs. in lakhs)	3330.87	10172.15	4944.97	3526.61	2672.65	46926.73
12.	Total output (Rs. in lakhs)	9875.52	13204.96	5959.44	4439.93	4404.77	53884.89
13.	Value added (Rs. in lakhs)	5752.69	2870.65	889.32	847.41	1698.40	5274.85

TABLE 5.1 (Contd.)

Sl. No.	Item	Trichur	Palghat	Malap-puram	Kozhikode	Cannanore	State
(1)	(2)	(9)	(10)	(11)	(12)	(13)	(14)
1	No. of units	353	272	100	355	505	2824
2	Fixed capital	1167.33	1252.92	364.50	2847.65	936.95	59109.27
3	Working capital	1727.97	773.21	14.95	998.88	587.88	20875.14
4	Productive capital	2895.30	2026.13	379.45	3846.53	1524.83	79984.41
5	Invested capital	3007.27	2152.90	510.51	4049.12	1769.72	84893.38
6	Outstanding loans	1598.58	992.57	253.93	1630.00	816.80	52745.85
7	Number of workers	15691	9194	2551	15255	26181	232684
8	All employees	18048	11031	3163	19096	28723	279368
9	Wages to workers	599.74	287.03	78.10	548.88	687.22	7023.91
10	Total emoluments	940.79	422.84	114.21	943.51	906.04	11430.36
11	Total Input	5738.30	2303.53	808.33	5903.44	3842.54	90676.12
12	Total output	7615.26	3673.38	1047.93	8295.90	5245.60	117647.58
13	Value added	1778.65	761.41	214.45	2169.53	1310.58	23567.94

TABLE 5.2

Selected characteristics—Percentage share of the districts—All industries

Sl. No.	Item	Trivan- drum	Quilon	Allep- pey	Yam	Kotta- yam	Idukki kulam	Erna- kulam	Trichur	Palghat	Malap- puram	Kozhi- kode	Canna- kode	State note
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
1	No. of units	4.03	14.05	5.27	4.56	3.22	12.71	12.50	9.64	3.55	12.58	17.89	100.00	
2	Fixed capital	48.11	3.00	2.20	1.03	0.59	33.95	1.97	2.12	0.62	4.82	1.59	100.00	
3	Working capital	20.74	10.10	4.03	1.58	1.73	42.16	8.28	3.70	0.07	4.79	2.82	100.00	
4	Productive capital	40.97	4.85	2.68	1.17	0.89	36.10	3.62	2.53	0.47	4.81	1.91	100.00	
5	Invested capital	37.54	5.07	3.02	1.41	0.83	38.60	3.54	2.54	0.60	4.77	2.08	100.00	
6	Outstanding loans	58.40	5.40	3.21	1.77	0.02	21.17	3.03	1.88	0.48	3.09	1.55	100.00	
7	Number of workers	14.23	38.58	3.96	1.81	1.80	10.02	6.74	3.95	1.10	6.56	11.25	100.00	
8	All employees	16.19	35.58	4.21	2.08	1.71	11.57	6.46	3.95	1.13	6.84	10.28	100.00	
9	Wages to workers	19.90	15.07	4.14	2.81	1.53	25.21	8.54	4.09	1.11	7.82	9.78	100.00	
10	Total emoluments	22.46	14.07	4.53	3.01	1.42	25.59	8.23	3.70	1.00	8.26	7.93	100.00	
11	Total input	3.67	11.22	5.45	3.89	2.95	51.75	6.33	3.09	0.89	6.52	4.24	100.00	
12	Total output	8.40	11.22	5.08	3.77	3.74	45.80	6.47	3.12	0.89	7.05	4.46	100.00	
13	Value added	24.41	12.18	3.77	3.59	7.21	22.38	7.55	3.23	0.91	9.21	5.56	100.00	

5.1 Trivandrum:—There were 114 industrial units in the district during 1977-78 as against 90 during the previous year. The growth in the number of units in Trivandrum is remarkable in tune with the growth for the state as a whole. These units together utilised 48% of the fixed capital 41% of the productive capital, produced 8% of the output and generated 24% of the total value added by manufacture for the state as a whole. Though the generation and distribution of electric energy by the Kerala State Electricity Board are spread throughout the state the whole data in respect of this unit are included in Trivandrum by virtue of the location of its headquarters in this district. Barring electricity the contribution of this district towards the factory sector is far behind many other districts. Cashewnut processing, cotton textiles, printing and publishing of books and journals and repair of motor vehicles were the major industries in the district.

5.2 Quilon:—The number of factory sector units in Quilon district grew from 385 units in 1976-77 to 397 units during 1977-78. This shows only marginal increase during the current year as against handsome growth recorded in this respect for the state as a whole. The total number of units as well as total number of employees were highest in this district. Cashewnut processing, starch, rubber products and structural clay products are the major industries of the district. Cashewnut processing is concentrated in this district. Because of the seasonal nature of this industry the average number of days on work per employee and consequently average annual emoluments per employee are very low in this district. Nearly 36% of the total employment in the factory sector of the state and 89% of the factory sector employment of the district are in this industry.

5.3 Alleppey:—There were 149 factories in this district during 1977-78 as against 135 during the previous year. Coir industry has the maximum number of units with 44. The percentage share of units has decreased from 6% during the previous year to 5% during the current year. There was no significant change in other structural characteristics during the year under report manufacture of edible oils, saw mills and canning and processing of fish are other important industries in the district.

5.4 Kottayam:—The number of factories in this district rose from 116 from the previous year to 129 during the year 1977-78. Manufacture of other rubber products is the dominant industry of the district as the district is the home of rubber cultivation in the state. With 1% share in the fixed capital the district was able to generate 3.6% of the total value added in the factory sector of the state. Most of the units in the rubber industry was small units, wood industry is the other important industry in the district.

5.5 Idukki:—There were only 91 factories in this district during 1977-78 as against 92 during the previous year. Since Idukki is a plantation district tea, processing is the dominant industry on this district. Major

hydro-electro projects like Idukki, Sabarigiri and Pallivasal are located in this district. Besides tea processing, manufacturing of rubber products others and saw mills have 3 or more units in each of them. Tea industry is concentrated in this district.

5.6 Ernakulam:—Ernakulam is the most industry developed district of the state. Its strategic location is most suitable for industrial development. Necessary infrastructure is available in abundance for further growth. 34% of the total fixed capital investment, 46% of the total output and 22% of the total value added are from the district. There is no large scale concentration of any industry in this district, perhaps, with the exception of chemical industries—unlike many other Districts where traditional labour intensive industries flourish this district is the abode of the modern industries. The percentage share of the district in total value added have come down from 29.63% during 1976-77 to 22.38% during 1977-78. The existence of many large units in this district is conducive for the development of ancillary industries. There are 30 groups of industries with three or more units in each of them. Hence the potential for growth of industries is much high in this district compared to other district.

5.7 Trichur:—There were a total of 353 factories during the year as against 319 during the previous year. Structural clay products was the dominant industry of this district. Cotton textiles and wood industries also play crucial roles in the economy of the district 12.5% of the units, 6% of employees, 6% of the total output and 7.5% of the total value added by manufacture are from this district.

5.8 Palghat:—There were 272 factories in this district during 1977-78 as against 192 during the previous year. The high increase in the number of units was due the fact that beedi manufacturing units registered under the beedi and cigar workers (conditions of employment, Act 1966 have been brought under the fold of the survey for the first time. Infact the highest number of units belonged to this industry with 64. Since this district being the granary of the state there is a concentration of grain mill products in this district. But the capital investment, output and value added were highest in cotton spinning and weaving in mill.

5.9 Malappuram:—Malappuram is the most backward district of the state. There were 100 factories during 1977-78 as against 42 during the previous year. The maximum number of units was in the beedi manufacturing industry which requires only very little capital. The share of the District in fixed capital investment, output and value added were less than 1% respectively of those for the factory sector as a whole. The percentage share of the district in value added by manufacture show a declining trend during the year.

5.10 Kozhikode:—There were 355 factories in this district during 1977-78 as against 292 during the previous year. Saw mills were largest in number with 98. Manufacture of veneers and plywood, structural clay products, beedi and repair of motor vehicles had 20 or more units each in

this district. Calicut being the nervecentre of Malabarr region the largest number of news papers were being published from this district. Wood industry, provides maximum employment opportunities followed by structural clay products industries. There were altogether 22 groups of industries with 3 or more units in each of them.

5.11 Cannanore:—The number of factories show remarkable growth in this district during 1977-78 compared to the previous year, consequent on the inclusive of beedi manufacture units in the survey. The largest number of beedi units are reported from this district. Like handlooms there is a heavy concentration of beedi manufacturing units in this district. Wood industry also plays crucial role in the economy of the district. There were 17 groups of industries with 3 or more units in each of them.

5.14 Relative Importance of Districts (All Industries)

The districts are arranged in discending order of their contribution towards value added by manufacture and presented in table 5.14 below.

TABLE 5.14

Arrangement of districts according to value added

Sl. No.	Name of district	Value added Rs. crores	Percentage to total
1	Trivandrum	57.53	24.41
2	Ernakulam	52.75	22.38
3	Quilon	28.71	12.18
4	Kozhikode	21.70	9.21
5	Trichur	17.79	7.55
6	Idukki	16.98	7.21
7	Cannanore	13.11	5.56
8	Alleppey	8.89	3.77
9	Kottayam	8.47	3.59
10	Palghat	7.61	3.23
11	Malappuram	2.14	0.91
	State	235.68	100.00

The above table shows that Trivandrum district tops the list with maximum contribution towards value added, and one may be tempted to infer that Trivandrum is the most industrially advanced district of the state. But this is not a true index of the industrial development of the district. Since the headquarters of the Kerala State Electricity Board, the activities of which are spread through out the length and breadth of the state, happened to be at Trivandrum the data in respect of this public sector giant is included in this district. Barring electricity the district will take a place below Cannanore district (5.3%) in respect of its contribution towards value added by manufacture. Hence the district may be ranked according to the contribution towards value added as shown below.

<i>Name of District</i>	<i>Rank</i>
Ernakulam	1
Quilon	2
Kozhikode	3
Trichur	4
Idukki	5
Cannanore	6
Trivandrum	7
Alleppey	8
Kottayam	9
Palghat	10
Malappuram	11

The above ranking shows that Ernakulam is the most industrialised district of the state with 22% of share towards value added by manufacture. Quilon district takes the second place with only 12% share of value added. Malappuram district occupies the last place as usual with only 2% share of value added by manufacture. The contribution towards value added by manufacture of the districts of Ernakulam, Quilon and Kozhikode only are above the average for all the districts.

ANNUAL SURVEY OF INDUSTRIES 1977-78

TABLE 5.3

District—Trivandrum

Rs. in lakhs.

Sl. No	Code	Name of Industry	No. of Units	Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loans	Mandays worked (No.)	All workers (No.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1	214	Cashewnut processing	21	9.64	48.73	58.37	82.20	32.39	559589	5373
2	231	Cotton spinning and weaving in mills	3	81.80	77.48	159.29	190.40	222.53	257706	791
3	271	Sawmills	8	2.28	1.88	4.16	3.62	1.24	51142	200
4	276	Manufacture of wooden furniture and fixtures	4	13.47	35.13	48.60	38.97	2.57	97043	323
5	285	Printing and publishing of books and journals	8	55.67	68.32	123.99	65.11	0.84	301042	1090
6	376	Manufacture of Bicycles and cycle rickshaws	4	9.83	22.12	31.94	25.30	49.39	32793	96
7	973	Repair of Motor vehicles	14	44.21	22.98	67.19	57.06	2.38	320565	867
8		Other Industries	52	28221.18	4052.75	32273.93	31405.85	30493.66	8646355	24373
		Total	114	28438.08	4329.39	32767.47	31868.51	30805.00	10266235	33113

TABLE 5.3 (Contd.)

Sl. No.	All Emp- loyees (Nos.)	Wages to workers	Total Emol- uments	Fuels consumed	Materials consumed	Other Input	Total Input
1	2	3	4	5	6	7	8
1	5712	45.43	56.98	0.87	307.68	23.44	331.99
2	894	46.00	54.38	7.37	267.12	13.79	288.28
3	220	2.24	3.02	0.24	20.12	0.92	21.28
4	404	12.36	19.76	0.94	13.46	2.02	16.42
5	1281	72.38	93.90	1.38	34.98	8.94	45.30
6	112	7.79	10.23	0.71	13.37	27.18	41.28
7	1062	63.25	88.30	10.10	172.12	11.57	193.81
8	35555	1148.55	2240.78	267.15	1323.39	802.01	2392.51
Total	45240	1398.00	2567.35	288.76	2152.24	889.87	3330.97

Products	Other output	Total output	Depreci- ation	Value added	Factor payments	Net income
9	10	11	12	13	14	15
414.37	9.08	423.45	1.06	90.40	8.02	82.38
357.10	6.69	363.79	5.23	70.28	15.75	54.53
24.88	1.32	26.20	0.14	4.78	0.26	4.52
31.57	6.42	36.99	0.75	20.82	0.18	20.64
133.61	11.53	145.14	3.87	95.97	0.14	95.83
49.12	0.46	49.58	0.92	7.38	1.01	6.37
251.37	38.86	290.23	2.95	93.47	1.30	92.17
7838.18	700.96	8540.14	777.04	5369.59	310.06	5059.53
9100.20	775.32	9875.52	791.96	5752.69	336.72	5415.97

ANNUAL SURVEY OF INDUSTRIES 1977-78

TABLE 5.4

District—Quilon
Rs. in lakhs.

Sl. No.	Code	Name of Industry	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
			No. of units	Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loans	Mandays worked	All Workers (No.)
1	203	Canning and processing of fish	9	85.27	33.37	118.64	125.34	105.16	95733	357
2	211	Manufacture of other edible oils	6	25.10	7.02	32.12	37.88	20.94	5382	24
3	212	Tea processing	5	2.94	9.91	12.85	12.72	..	37449	124
4	214	Cashewnut processing	228	188.57	802.16	990.73	1416.70	708.48	8905949	81457
5	217	Manufacture of starch	3	85.75	143.71	229.46	189.50	229.00	90061	297
6	271	Saw mills	29	8.02	4.74	12.76	13.48	9.16	158454	673
7	272	Cane and bamboo works	4	0.48	0.38	0.85	0.64	..	2768	10
8	302	Manufacture of Rubber products—Others	16	33.83	33.16	66.99	68.33	..	141623	464
9	320	Manufacture of structural clay products	40	29.04	34.76	63.80	73.26	20.46	385398	1438
10	340	Manufacture of metal cans and tin plate	16	7.76	34.28	42.04	53.48	61.12	23114	224
11	341	Manufacture of structural metal products	3	4.34	95.57	99.91	65.64	2.16	43143	145
12	973	Repair of motor vehicles	4	13.15	3.69	16.84	16.83	..	103314	285
13		Other Industries	34	1289.80	906.57	2196.87	2229.34	1690.09	1236426	4268
Total			397	1774.05	2109.32	3883.87	4302.14	2846.55	11228817	89766

TABLE 5.4 (Contd.)

Sl. No.	All emp- loyees (No.)	Wages to workers Rs.	Total emolu- ments Rs.	Fuels consumed Rs.	Materials consumed Rs.	Other Input Rs.	Total Input Rs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	568	8.13	16.43	12.81	211.12	102.52	326.45
2	36	0.56	0.90	0.22	85.02	1.12	86.36
3	138	3.06	4.94	3.36	67.85	4.26	75.47
4	88496	699.51	983.50	37.55	5227.73	150.58	6415.86
5	412	12.81	21.33	18.12	212.38	30.21	260.71
6	754	7.71	11.66	0.62	64.57	4.96	70.15
7	16	0.76	0.92	0.04	3.16	0.32	3.52
8	558	14.48	25.65	7.61	383.75	10.75	402.11
9	1638	36.83	50.21	27.48	13.03	6.49	47.00
10	352	2.52	4.94	0.92	76.78	8.78	86.48
11	275	7.73	22.92	0.42	74.33	9.15	83.90
12	303	23.19	27.42	1.16	84.56	0.71	86.43
13	5858	241.53	437.76	190.44	1850.67	186.60	2227.71
	99404	1058.82	1608.58	300.75	8354.95	1516.45	10172.15

Products Rs.	Other output Rs.	Total output Rs.	Depre- ciation Rs.	Value added Rs.	Factor payments Rs.	Not income Rs.
(9)	(10)	(11)	(12)	(13)	(14)	(15)
252.72	107.29	360.01	10.11	23.45	16.61	6.84
89.46	..	89.46	2.38	0.72	1.46	(-9.74)
97.29	1.76	99.05	0.63	22.95	..	22.95
7069.22	1156.06	8225.28	22.55	1786.87	141.31	1645.56
403.50	1.59	405.09	6.71	137.67	21.83	115.84
90.09	1.52	91.61	0.58	20.88	1.84	19.04
4.98	(-0.16)	4.82	0.04	1.26	..	1.26
589.85	0.69	590.54	4.25	184.18	..	184.18
130.89	3.21	134.10	2.39	84.71	3.27	81.44
97.18	5.48	102.66	0.68	15.50	5.30	10.20
93.32	42.37	135.69	0.47	51.32	0.38	50.94
..	116.50	116.50	1.24	28.83	..	28.83
2793.62	56.53	2850.15	110.13	512.31	166.52	345.79
11712.12	1492.84	13204.96	162.16	2870.65	358.52	2512.13

ANNUAL SURVEY OF INDUSTRIES—1977-78

TABLE 5.5

District—Alleppey

Sl. No.	Code	Name of Industry	No. of Units	District—Alleppey						
				(4)	(5)	(6)	(7)	(8)	(9)	(10)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1	203	Canning and processing of fish	7	33.50	28.56	62.06	83.15	45.17	48027	139
2	211	Manufacture of other edible oils	12	18.12	8.98	27.10	36.42	9.72	22234	82
3	214	Cashewnut processing	5	1.27	44.03	45.30	79.04	23.22	467671	3072
4	268	Manufacture of Coir and Coir Product	44	101.94	253.42	355.36	388.55	322.52	465406	1682
5	270	Manufacture of veneers and plywood	3	58.80	14.79	73.59	111.51	78.24	17094	56
6	271	Saw mills	13	2.62	2.14	4.76	4.12	3.13	74808	354
7	285	Printing and publishing of books and journals	4	3.00	2.52	5.52	4.58	3.38	14924	50
8	313	Manufacture of Drugs and medicines	4	21.66	5.10	26.76	49.48	22.36	15436	50
9	320	Manufacture of structural clay products	3	8.53	2.00	10.53	11.13	8.63	25149	86
10	360	Manufacture of transformers, electricals etc.	3	121.36	15.62	136.98	226.49	128.69	104739	347
11	370	Ship building and repairing	3	64.55	8.69	73.24	84.61	95.63	43200	142
12	973	Repair of Motor vehicles	5	9.72	4.71	14.43	14.42	—	164653	450
13		Other industries	43	856.83	450.21	1307.04	1467.94	952.80	706963	2712
Total			149	1301.90	840.77	2142.67	2561.44	1693.49	2170310	9222

TABLE 5.5 (Contd)

Sl. No.	All employees	Wages to workers	Total emoluments	Fuels etc. consumed	Material consumed	Other Input	Total Input
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	195	3.91	11.79	6.02	568.11	29.00	603.13
2	244	2.16	4.42	2.74	249.80	139.36	491.90
3	3235	36.31	48.16	0.24	313.36	8.30	321.90
4	2201	64.24	112.12	9.36	1259.17	95.23	1363.81
5	82	2.31	4.73	3.46	48.04	5.98	57.48
6	393	3.15	4.70	0.36	22.44	1.15	23.95
7	64	1.90	2.70	0.08	1.32	2.46	3.80
8	82	1.50	2.92	1.10	26.44	5.82	33.36
9	112	3.46	5.23	5.74	5.24	2.63	13.61
10	442	21.19	45.08	2.70	101.48	11.53	115.71
11	181	4.91	8.42	1.01	21.81	3.22	26.04
12	496	33.21	40.68	10.54	77.15	0.62	88.31
13	4048	112.25	203.81	109.42	1481.46	211.09	1801.97
Total	11775	290.50	494.76	152.77	4275.82	516.33	4944.97

Products	Other output	Total output	Depreciation	Value added	Factor payments	Net income	
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
615.25	3.70	618.95	4.69	11.13	6.32	5.41	
361.92	144.70	507.62	1.48	14.24	2.62	11.62	
405.98	5.15	411.13	0.14	89.09	7.41	81.68	
1536.95	51.18	1588.13	8.97	215.35	26.98	188.37	
108.41	1.22	109.63	6.44	45.71	8.43	37.28	
30.02	..	30.02	0.25	5.82	0.74	5.08	
2.44	6.50	0.94	0.50	4.64	0.40	4.24	
43.56	0.88	44.44	1.28	9.80	2.80	7.00	
16.33	1.8	18.22	0.95	3.66	1.07	2.59	
176.25	11.09	187.34	6.86	64.77	17.71	47.06	
25.47	12.33	37.80	2.68	9.08	9.61	(-) 0.53	
41.38	99.11	140.49	0.77	51.41	..	51.41	
2140.35	116.38	2255.73	90.14	364.62	109.09	254.93	
Total	5505.31	454.13	5959.44	125.15	889.32	193.18	696.14

ANNUAL SURVEY OF INDUSTRIES 1977-78

TABLE: 5.6

District: Kottayam

Sl. No.	Code	Name of Industry	No. of Unit	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
				(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1	270	Manufacture of veneers and plywood	6	44.94	16.20	61.14	72.54	39.52	130724	434	559	
2	271	Saw mills	19	6.29	9.96	16.25	11.82	5.35	140279	481	573	
3	284	Printing and publishing of newspapers	3	43.50	40.64	84.14	100.53	123.25	97756	279	541	
4	285	Printing and publishing of books and journals	11	15.02	9.02	24.04	21.74	8.90	39881	250	288	
5	302	Manufacture of rubber products—Others	44	157.44	(—)	21.04	136.40	355.24	478.39	403766	1448	1927
6	311	Manufacture of fertilisers and pesticides	4	1.82	42.06	43.88	42.20	..	21746	70	114	
7	359	Manufacture of sewing machines	4	1.80	1.04	2.84	3.34	4.00	80138	36	48	
8	973	Repair of Motor vehicles	4	7.83	2.08	9.91	9.70	..	87372	248	289	
9		Other Industries	34	330.46	229.63	560.09	581.68	264.74	331524	957	1465	
Total			129	609.10	329.59	938.69	1198.79	933.35	126186	4203	5804	

TABLE 5.6 (Contd.)

Sl. No.	Wages to workers	Total emoluments	Fuels etc. consumed	Materials consumed	Other input	Total input
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	16.04	26.32	4.27	83.43	28.46	116.16
2	9.01	11.29	1.61	65.27	7.35	74.23
3	20.03	51.98	1.64	307.47	38.64	317.75
4	7.87	10.40	0.46	10.52	4.94	15.92
5	57.49	92.73	46.54	1458.84	135.10	1640.48
6	6.52	12.38	0.10	451.06	21.96	473.12
7	1.08	1.50	0.26	2.68	0.48	3.42
8	19.56	25.96	1.33	51.57	1.78	54.68
9	60.62	108.64	202.57	517.53	80.75	900.85
Total	197.22	344.20	258.78	2948.37	319.46	3526.61

Products	Other output	Total output	Depreciation	Value added	Factor payments	Net income	
(8)	(9)	(10)	(11)	(12)	(13)	(14)	
141.50	17.06	158.56	3.22	39.18	8.05	31.13	
92.60	2.21	94.81	0.72	19.86	1.08	18.78	
290.67	153.62	444.29	4.53	92.01	22.03	69.98	
11.39	19.52	30.91	1.95	13.04	1.26	11.78	
1898.43	103.07	2001.50	17.43	343.59	52.08	291.51	
505.16	0.70	505.86	0.38	32.36	1.68	30.68	
5.92	0.24	6.16	0.20	2.54	0.66	1.88	
..	85.18	85.18	0.57	29.93	..	29.93	
1083.00	29.66	1112.66	36.91	274.90	38.88	236.02	
Total	4028.67	411.26	4439.93	65.91	847.41	125.72	721.69

ANNUAL SURVEY OF INDUSTRIES 1977-78

TABLE : 5.7

District: Idukki

Sl. No.	Code	Name of Industry	No of units	Fixed capital	Working capital	Pr ductive capital	Invested capital	Outstanding loans	Mandays worked	All workers	All employees
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1	212	Tea processing	68	313.93	299.87	613.80	608.37	3.95	1116383	3757	4277
2	271	Saw mills	5	2.39	3.80	6.19	3.78	2.04	21821	101	106
3	302	Manufacture of rubber products-Others	11	16.41	48.47	64.88	65.20	..	55384	195	215
4		Other Industries	7	13.61	10.20	23.81	24.20	4.60	40667	135	172
		Total	91	346.34	362.34	708.68	701.55	10.59	1234655	4188	4770

TABLE 5.7 (Contd.)

Sl. No.	Wages to workers	Total emoluments	Fuels etc. consumed	Material consumed	Other Input	Total Input	Products	Other output	Total output	Depreciation	Value added	Factor Payments	Net income
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	95.59	144.76	154.92	2235.03	103.82	2493.77	4172.39	2.16	4174.55	30.90	1649.88	0.38	1649.50
2	1.32	1.87	0.08	6.94	0.45	7.47	10.54	0.09	10.63	0.13	3.03	0.17	2.86
3	4.97	6.53	3.86	121.69	4.38	129.93	190.89	..	190.89	1.62	59.34	..	59.34
4	5.86	9.65	2.38	35.87	3.23	41.48	8.37	20.33	28.70	1.07	13.85	0.18	(-)14.03
Total													
	107.74	162.81	161.24	2399.53	111.88	2672.65	4382.19	22.58	4404.77	33.72	1698.40	0.73	1697.67

ANNUAL SURVEY OF

TABLE

Sl. No.	Code	Name of Industry	No. of units
(1)	(2)	(3)	(4)
1	40	Generation and transmission of electric energy	3
2	202	Canning and preservation of fruits and vegetables	4
3	203	Canning and processing of fish	35
4	204	Manufacture of grain mill products	4
5	211	Manufacture of other edible oils	4
6	215	Manufacture of Ice.	4
7	226	Manufacture of Beedi	4
8	231	Cotton spinning and weaving mills	4
9	268	Manufacture of coir and coir products	7
10	271	Saw mills	52
11	276	Manufacture of wooden furniture and fixtures	5
12	284	Printing and publishing of newspapers	3
13	285	Printing and publishing of books and journals	22
14	289	Printing picture and post cards	4
15	300	Tyre and tube industries	7
16	302	Manufacture of Rubber products—Others	6
17	310	Manufacture of organic and inorganic chemicals	14
18	311	Manufacture of fertilisers and pesticides	4
19	314	Manufacture of perfumes and lotions	3
20	316	Manufacture of Turpentine	4
21	320	Manufacture of structural clay products	19
22	331	Casting and forging of Iron and steel	7
23	340	Manufacture of metal cans and tinplate	11
24	341	Manufacture of structural metal products	9
25	343	Manufacture of hard tools and hardware	4
26	350	Manufacture of agricultural machinery and equipment	6
27	359	Manufacture of swcing machines	4
28	370	Ship building and repairing	13
29	380	Manufacture of medical and surgical equipments	3
30	973	Repair of Motor vehicles	16
31		Other Industries	74
Total			359

INDUSTRIES 1977-78

5.8

District : Ernakulam

Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loans	Mandays worked	All workers	All employees
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
28.66	5.35	34.01	31.20	7.00	59185	162	241
14.30	19.40	33.70	47.78	23.74	15840	56	78
183.73	226.49	110.22	361.16	434.62	282398	974	1481
3.22	1.10	4.32	5.20	1.12	11988	48	66
11.90	13.90	25.80	42.38	25.76	11164	44	60
1.40	..	1.40	3444	14	14
..	0.04	0.04	0.04	..	4756	32	44
313.21	104.44	417.65	629.87	311.74	578369	1571	1753
4.72	9.80	14.52	10.80	3.65	41235	157	182
29.95	14.73	44.68	43.34	14.33	257175	926	1073
6.68	19.80	26.48	38.05	8.82	41831	138	174
10.56	36.60	47.16	38.78	13.89	89152	251	412
30.13	15.83	45.96	42.98	8.14	122491	431	533
16.93	16.23	33.16	28.23	16.32	37463	124	155
520.57	497.21	1017.78	1130.94	71.28	402420	950	1267
7.68	5.32	13.00	17.12	3.16	37118	120	150
1720.78	115.96	1836.74	2144.80	1430.75	438052	1215	1779
5095.79	1539.48	6634.27	6756.21	39.08	1034369	2840	3876
225.92	513.21	739.13	877.54	520.60	265672	750	967
32.20	54.63	86.83	91.14	64.06	25411	87	124
61.08	26.37	87.45	96.02	6.76	223675	806	947
79.17	2.52	81.69	136.97	177.01	71728	228	328
55.72	37.79	93.51	73.52	39.33	84104	432	496
62.75	45.69	108.49	226.79	242.29	66088	334	491
14.78	1.76	16.54	19.68	21.06	24894	80	102
215.44	265.26	480.70	617.06	306.06	50778	166	322
2.24	1.04	3.28	2.54	2.40	9136	30	42
6827.41	1167.90	7995.31	9080.96	4548.23	237936	787	1785
26.33	(—)10.20	16.13	32.88	28.44	26168	87	131
18.93	3.02	21.95	19.80	3.96	162712	478	551
4448.27	4050.17	8499.44	10127.65	2791.39	2503981	9002	12690
20070.84	8800.84	28871.29	32771.43	11064.99	7160733	23320	32314

Table

Sl. No.	Wages to workers	Total emoluments	Fuels etc. consumed	Material consumed	Other Input	Total Input	Products
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	17.25	30.23	0.83	55.05	7.81	63.69	80.52
2	1.28	2.44	2.00	57.88	4.18	64.06	69.79
3	27.93	52.74	32.62	1411.39	77.33	1521.34	1644.08
4	1.16	2.48	0.92	33.88	0.92	35.72	35.86
5	1.20	1.88	0.64	185.00	71.36	257.00	197.44
6	0.32	0.32	0.12	0.54	0.02	0.68	4.42
7	0.22	0.26	..	0.20	0.14	0.34	0.52
8	92.73	123.54	31.80	669.39	730.95	1432.14	953.86
9	3.51	5.30	0.20	5.58	2.45	8.23	11.41
10	15.88	20.64	2.35	138.25	38.41	179.01	181.06
11	7.89	11.93	0.78	29.92	8.40	39.10	53.17
12	13.83	27.97	1.90	162.76	15.45	180.11	185.68
13	25.59	32.14	1.14	32.68	9.54	43.36	56.81
14	5.58	7.79	0.90	17.57	5.11	23.58	39.23
15	87.06	197.63	57.46	1113.56	81.96	1252.98	1585.19
16	5.02	7.50	0.82	32.26	3.00	36.08	55.88
17	139.85	248.59	250.47	721.60	170.34	1141.91	1637.16
18	279.10	441.19	823.96	2560.15	478.02	3862.13	4488.93
19	71.35	112.79	94.54	2168.24	58.55	2321.33	2858.04
20	3.89	6.32	5.76	156.54	13.79	176.09	192.65
21	22.95	29.70	25.27	11.73	8.91	45.91	83.53
22	15.22	26.42	11.29	78.34	9.38	99.01	143.23
23	16.40	23.46	3.41	151.03	28.98	183.42	213.88
24	10.57	24.27	6.36	41.70	42.56	90.62	139.94
25	3.30	6.32	1.38	38.38	1.64	41.40	51.16
26	8.84	28.36	1.28	169.62	69.62	240.52	205.60
27	0.82	1.24	0.10	0.90	0.32	1.32	1.46
28	66.43	205.66	19.40	388.77	164.04	572.21	300.53
29	6.69	14.69	1.85	49.54	4.43	55.87	85.09
30	31.03	37.69	3.24	77.69	4.67	85.60	..
31	787.86	1193.78	679.99	31188.73	1003.25	32871.97	35388.27
Total	1770.66	2925.27	2062.78	41748.37	3115.58	46926.73	50944.39

5.8 (Contd.)

Other output	Total output	Depreciation	Value added	Factor payments	Net income
(9)	(10)	(11)	(12)	(13)	(14)
5.21	85.73	1.98	20.06	1.66	18.40
(-)0.01	69.78	1.10	4.62	1.96	2.66
63.65	1707.73	19.87	166.52	54.04	112.48
0.26	36.12	0.26	0.14	0.34	(-)0.20
63.18	260.62	1.18	2.44	1.24	1.20
..	4.42	0.16	3.58	..	3.58
0.14	0.6	..	0.32	0.02	0.30
736.24	1690.14	26.21	231.75	45.68	186.07
1.18	12.59	0.10	4.26	0.35	3.91
36.20	217.26	1.72	36.53	3.68	32.85
3.90	57.13	0.53	17.50	1.46	16.04
23.10	208.87	1.22	27.54	2.09	25.45
20.57	77.38	2.39	31.63	1.20	30.43
1.81	41.12	1.62	15.92	2.77	13.15
187.75	177.94	33.24	486.72	95.46	391.26
2.20	58.08	0.82	21.18	0.74	20.44
79.75	1716.91	180.80	394.20	202.63	191.57
21.42	4510.35	674.30	(-)26.08	506.86	(-)532.94
32.32	2890.36	22.98	546.05	79.54	466.51
25.32	217.97	5.85	36.03	6.68	29.35
(-)0.27	83.26	2.22	35.13	2.45	32.68
4.69	147.92	3.94	44.97	21.40	23.57
4.19	218.07	4.36	30.29	7.69	22.60
(-)38.25	101.69	3.48	7.59	33.56	(-)25.97
2.66	53.82	1.22	11.20	3.76	7.44
73.44	279.04	11.16	27.36	5.62	21.74
1.12	2.58	0.24	1.02	0.20	0.82
447.42	747.95	136.40	39.34	347.62	(-)308.28
0.61	85.70	1.33	28.50	7.45	21.05
126.84	126.84	1.90	39.34	0.32	39.02
1013.63	36401.90	540.73	2989.20	388.58	2600.62
2940.50	53884.89	1683.31	5274.85	1827.05	3447.80

ANNUAL SURVEY OF INDUSTRIES 1977-78

TABLE 5.9

District : Trichur

Sl. No.	Code	Name of Industry	No. of Units	Fixed capital		Working capital		Productive capital		Invested capital		Outstanding loans		Mandays worked		All workers		All employees
				Rs.	(5)	Rs.	(6)	Rs.	(7)	Rs.	(8)	Rs.	(9)	No.	(10)	No.	(11)	
1	202	Canning and preservation of fruits and vegetables	5	15.08	10.42	25.50	49.74	56.17	85443	355	406							
2	204	Manufacture of grain mill products	8	5.60	7.98	13.58	14.22	2.46	18214	94	130							
3	211	Manufacture of other edible oils	9	19.10	46.81	65.91	82.88	66.66	53712	163	252							
4	214	Cashewnut processing	6	5.78	23.33	29.11	27.80	3.54	294737	1606	1732							
5	226	Manufacture of Beedi	10	0.33	3.60	3.93	3.85	0.22	111414	374	396							
6	232	Cotton spinning and weaving in mills	5	186.16	82.31	268.47	424.84	389.21	755337	2296	2470							
7	270	Manufacture of Veneers and Plywood	16	10.80	12.87	23.67	26.70	13.89	99908	365	426							

Table 5.9 (Contd.)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
8	271	Saw mills	28	29.16	42.82	71.98	49.96	38.82	118418	420	530
9	289	Printing picture and post cards	15	78.76	52.73	131.49	135.44	27.18	175007	578	693
10	302	Manufacture of Rubber products—others	9	32.65	32.10	64.75	64.52	3.56	88396	317	377
11	313	Manufacture of drugs and medicines	10	47.22	49.84	97.06	46.00	50.50	51132	168	324
12	320	Manufacture of structural clay products	127	162.04	118.35	280.39	270.80	115.40	1266306	4582	5114
13	354	Industrial machinery for other than food	13	19.70	4.75	24.45	38.85	17.35	74201	254	323
14	973	Repair of motor vehicles	9	7.26	0.52	7.78	8.62	0.16	57191	169	199
15		Other Industries	83	547.69	1239.54	1787.23	1763.05	813.46	1203115	3950	4676
		Total	353	1167.33	1727.97	2895.30	3007.27	1598.58	4452531	15691	18048

Sl. No.	Wages to workers	Total emoluments	Fuels etc. consumed	Materials consumed	Other Input	Total Input
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	7.85	12.15	1.79	106.63	6.64	115.06
2	1.21	2.54	0.76	34.40	35.26	70.42
3	4.64	9.17	2.99	568.12	30.70	601.80
4	24.29	32.46	0.70	211.67	5.13	217.50
5	5.42	6.34	0.23	71.83	2.75	74.81
6	124.25	148.92	27.31	827.33	49.23	903.87
7	8.09	10.96	0.81	41.07	4.20	46.08
8	8.02	12.16	1.86	73.58	27.56	103.00
9	20.98	28.68	2.32	144.08	53.59	199.99
10	8.47	14.30	5.59	219.25	7.46	232.30
11	7.16	20.78	4.56	66.52	8.66	79.54
12	115.63	149.06	107.31	68.51	41.37	217.19
13	8.63	11.90	2.29	18.23	6.64	27.16
14	12.80	15.85	1.29	31.03	0.76	33.08
15	242.30	465.52	104.68	2468.65	243.17	2816.50
Total	599.74	940.79	264.49	4950.70	523.11	5738.30

Production	Other output	Total output	Depreciation	Value added	Factory payment	Net gross
(8)	(9)	(10)	(11)	(12)	(13)	(14)
133.07	8.15	141.22	1.36	24.80	8.59	16.21
40.52	36.32	76.84	0.50	5.92	2.22	3.70
606.92	19.30	626.22	2.05	22.37	10.23	12.14
272.97	0.75	273.72	0.49	55.73	3.77	51.96
89.05	0.07	89.12	0.02	14.29	0.08	14.21
1135.43	17.30	1152.73	15.71	233.15	43.68	189.47
64.60	(—) 1.55	63.05	0.99	15.98	1.93	14.05
104.90	24.34	129.24	3.08	23.16	4.16	29.00
134.96	90.26	225.22	4.56	20.67	5.24	15.43
301.61	0.41	302.02	3.85	65.87	1.02	64.85
108.52	1.72	110.23	3.08	27.62	5.18	22.44
410.47	11.55	422.02	12.44	192.39	14.57	177.82
41.29	3.95	45.24	1.16	16.92	2.13	14.79
..	51.37	51.37	0.47	17.82	0.14	17.68
3627.79	279.22	3907.01	48.55	1041.96	135.06	906.90
7072.10	543.16	7615.26	98.31	1778.65	238.00	1540.65

ANNUAL SURVEY OF

TABLE 5.10

Sl. No.	Code	Name of Industry	No. of units	Fixed capital
(1)	(2)	(3)	(4)	(5)
1	204	Manufacture of Grain mill products	34	14.38
2	226	Manufacture of Beedi	64	2.19
3	231	Cotton spinning and weaving in mills	3	235.17
4	271	Saw mills	55	13.82
5	285	Printing and publishing of books and journals	7	37.76
6	302	Manufacture of Rubber products—others	8	34.30
7	317	Manufacture of Metals	6	0.18
8	320	Manufacture of structural clay products	8	13.14
9	343	Manufacture of hand tools and hardware	12	24.80
10	345	Manufacture of metal utensils and cutlery	8	2.04
11	389	Manufacture of Jewellery articles	4	1.20
12	973	Repair of motor vehicles	6	9.04
13		Other Industries	57	864.90
Total			272	1252.92

INDUSTRIES 1977-78

District: Palghat

Working capital	Productive capital	Invested capital	Outstand- ing loans	Mandays worked	All workers	All employees
(6)	(7)	(8)	(9)	(10)	(11)	(12)
6.54	20.92	19.78	5.20	48278	276	346
(-) 2.98	(-) 0.79	3.98	..	702499	2496	2577
107.19	342.36	373.75	155.51	396166	1147	1235
9.46	23.28	38.76	19.58	261533	1057	1166
18.62	56.38	46.37	0.10	92887	321	367
5.44	39.74	39.82	19.26	22552	84	104
1.04	1.22	3.22	0.28	48028	166	180
11.15	24.29	30.08	15.95	154102	549	602
27.02	51.82	63.20	56.49	192595	652	794
(-) 1.46	0.58	4.56	4.70	19498	66	88
3.02	4.22	3.64	1.80	58730	194	230
0.56	9.60	9.82	2.58	48026	136	142
587.61	1452.51	1515.92	111.12	539219	2050	3200
773.21	2026.13	2152.90	992.57	2584113	9194	11031

Table

Sl. No.	Wages to workers	Total emoluments	Fuels etc. consumed	Materials consumed	Other Input	Total Input
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	4.40	5.02	1.02	174.46	14.52	190.00
2	43.74	48.65	0.38	35.72	5.87	41.97
3	70.96	97.61	21.62	526.94	39.90	588.46
4	15.26	18.10	1.30	84.98	11.87	98.15
5	16.50	20.85	0.27	11.78	1.19	13.24
6	2.30	3.40	1.38	44.48	3.60	49.46
7	1.48	1.86	0.20	10.88	2.20	13.28
8	14.43	19.61	7.14	6.17	9.52	22.83
9	23.45	35.78	17.50	84.22	20.02	121.74
10	1.88	2.28	0.22	19.60	3.90	23.72
11	3.28	4.76	0.14	8.30	2.82	11.26
12	10.18	11.84	0.50	0.36	1.34	2.20
13	79.17	153.08	71.56	1434.58	121.08	1627.22
Total	287.03	422.84	123.23	2442.47	237.83	2803.53

5.10 (Contd.)

Products	Other output	Total output	Depreciation	Value added	Factor payments	Net income
(8)	(9)	(10)	(11)	(12)	(13)	(14)
182.56	14.16	196.72	0.92	5.80	0.80	5.00
90.19	10.14	100.33	0.31	58.05	0.51	57.54
786.76	8.28	795.04	23.53	183.05	20.66	162.39
112.98	6.08	119.06	0.92	19.99	2.52	17.47
7.61	23.26	30.87	2.25	15.38	0.08	15.30
56.18	(—) 0.24	55.94	3.16	3.32	4.86	(—)1.54
16.58	0.08	16.66	0.02	3.36	0.18	3.18
44.11	6.06	50.17	0.79	26.55	2.24	24.31
183.27	5.55	188.82	2.61	64.47	9.02	55.45
27.54	(—) 0.32	27.22	0.18	3.32	0.72	2.60
16.98	0.94	17.92	0.20	6.46	0.24	6.22
..	16.40	16.40	0.90	13.30	0.30	13.00
1990.10	68.13	2058.23	72.65	358.36	47.81	310.55
3514.86	158.52	3673.38	108.44	761.41	89.94	671.47

ANNUAL SURVEY OF INDUSTRIES—1977-78

TABLE: 5.11

District: Malappuram

Sl. No.	Code	Name of Industry	No. of units	Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loans	Mandays worked	All workers	All Employees
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1	211	Manufacture of other edible oils	4	194.70	(—)57.52	137.18	207.36	60.00	13332	116	246
2	226	Manufacture of Beedi	45	1.75	2.27	4.02	3.59	0.10	230809	922	986
3	270	Manufacture of veneers and plywood	6	4.86	3.28	8.14	5.68	1.86	24220	84	104
4	271	Saw mills	14	5.04	1.86	6.90	6.60	0.70	72540	262	290
5	313	Manufacture of Drugs and medicines	3	39.53	91.75	131.29	118.51	23.16	110833	366	478
6	320	Manufacture of structural clay products	4	10.60	1.63	12.23	12.50	8.99	86321	292	314
7	973	Repair of Motor vehicles	3	1.04	0.08	1.12	1.06	..	12906	35	38
8		Other Industries	21	106.98	(—)28.40	78.58	155.21	159.12	138131	474	707
Total			100	364.50	14.95	379.45	510.51	253.93	689092	2551	3163

Table 5.11 (Contd.)

Sl. No.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
	Wages to workers	Total emoluments	Fuels etc. consumed	Materials consumed	Other Input	Total Input	Products	Other output	Total output	Depreciation	Value added	Factor payments	Net Income		
1	1.16	2.66	2.28	375.56	13.44	391.28	393.30	..	393.30	9.50	(-)	7.48	19.60	(-)	27.08
2	16.33	17.83	0.20	20.07	3.79	24.06	40.72	3.08	43.80	0.19	19.55	0.18	19.37		
3	1.22	1.94	0.14	14.02	1.42	15.58	19.98	(-)	0.18	19.80	0.50	3.72	..	3.72	
4	2.68	3.04	0.22	22.68	2.64	25.54	29.76	(-)	0.06	29.70	0.38	3.78	0.30	3.48	
5	26.15	50.04	12.40	156.56	10.22	179.18	327.73	0.27	328.00	4.00	144.82	0.40	144.42		
6	10.42	11.91	5.30	3.93	4.38	13.61	34.30	0.10	34.40	0.60	20.19	0.19	20.00		
7	2.11	2.44	0.10	0.40	0.13	0.63	..	3.50	3.50	0.12	2.75	0.06	2.69		
8	17.03	24.15	11.66	136.15	10.64	158.45	188.74	6.69	195.43	9.86	27.12	19.76	7.36		
Total	78.10	114.21	32.30	729.37	46.66	808.33	1034.53	13.40	1047.93	25.15	214.45	40.49	173.96		

ANNUAL SURVEY OF

TABLE

District:

Sl. No.	Code	Name of Industry	No. of Units
(1)	(2)	(3)	(4)
1	204	Manufacture of grain mill products	4
2	211	Manufacture of other edible oils	4
3	212	Tea processing	10
4	213	Coffee curing, roasting and grinding	4
5	219	Manufacture of food products—Others	4
6	226	Manufacture of beedi	21
7	235	Wearing and finishing of textiles—Handlooms	15
8	268	Manufacture of coir and coir products	5
9	270	Manufacture of veneers and plywood	43
10	271	Saw mills	98
11	276	Manufacture of wooden furniture and fixture	3
12	284	Printing and publishing of newspapers	7
13	285	Printing and publishing of books and journals	8
14	289	Printing picture and post cards	4
15	302	Manufacture of rubber products—Others	11
16	310	Manufacture of organic & inorganic chemicals	4
17	311	Manufacture of fertilizers and pesticides	4
18	313	Manufacture of drugs and medicines	4
19	320	Manufacture of structural clay products	21
20	330	Iron and steel industries	3
21	359	Manufacture of sewing machines	3
22	973	Repair of motor vehicles	20
23		Other industries	54
Total			357

INDUSTRIES—1977-78

5.12

Kozhikode

Fixed capital	Working capital	Productive capital	Invested capital	Out-standing loans	Mandays worked	All workers
(5)	(6)	(7)	(8)	(9)	(10)	(11)
17.84	3.16	21.00	25.16	1.54	21214	110
7.46	44.76	52.22	51.60	0.72	19448	68
69.46	42.40	111.86	110.45	..	215810	698
10.87	5.23	16.10	12.86	4.85	46536	316
16.62	0.56	17.18	39.60	30.86	24408	82
3.05	5.43	8.48	8.65	3.56	222491	822
11.16	45.29	56.45	47.39	16.83	303238	1031
5.16	14.46	19.62	15.76	..	38302	132
9.87	27.55	57.42	62.94	52.10	236046	815
43.05	26.98	70.03	51.25	28.14	379940	1516
3.66	9.82	13.48	6.70	11.20	16850	57
45.65	91.53	137.18	68.72	59.86	161602	473
2.46	1.84	4.30	5.62	5.14	42100	138
1.74	3.14	4.88	7.32	2.12	18522	60
26.83	21.98	48.81	38.79	15.88	69556	233
5.72	4.54	10.26	10.32	5.94	10924	60
2.24	35.60	37.84	37.70	..	26282	86
9.44	7.80	17.24	14.82	0.25	20704	70
36.59	32.63	69.22	82.60	53.43	714510	2380
308.81	(—)156.34	152.47	409.47	498.03	212509	424
3.38	2.26	5.64	9.05	5.22	39776	127
21.70	16.87	38.57	25.43	3.15	102819	489
2164.89	711.39	2876.28	2906.92	831.18	1454015	5068
2847.65	998.88	3846.53	4049.12	1630.00	4397602	15255

TABLE

Sl. No.	All employ-ees	Wages to workers	Total emolu-ments	Fuels etc. consumed	Materials consumed	Other input	Total input
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	144	2.90	4.12	1.18	143.70	3.32	148.20
2	104	3.32	5.76	2.00	630.40	8.20	640.60
3	944	19.34	24.76	39.11	491.01	30.67	560.76
4	417	3.40	5.18	0.82	0.55	2.40	3.77
5	122	2.52	4.68	2.46	42.56	13.28	58.30
6	879	16.53	19.39	0.82	108.13	56.68	165.63
7	1195	26.55	38.88	2.42	86.35	9.08	97.85
8	160	4.74	6.50	0.22	4.12	3.44	7.78
9	1003	14.14	21.59	2.83	107.93	19.96	130.72
10	1781	36.50	43.40	7.13	37.05	21.00	65.18
11	68	2.70	3.98	0.21	6.57	0.56	7.34
12	860	34.35	73.59	3.56	340.58	38.93	383.07
13	166	4.70	6.82	0.16	3.04	1.64	4.84
14	72	2.06	2.78	0.10	6.74	0.72	7.56
15	276	6.47	10.34	5.05	91.96	6.74	103.75
16	74	1.22	1.92	6.02	9.16	2.18	17.36
17	98	3.08	4.86	0.04	57.06	17.22	174.32
18	108	3.13	6.70	1.26	20.48	6.40	28.14
19	2632	82.29	105.74	45.50	32.76	15.18	93.44
20	671	21.96	34.40	57.44	241.38	63.59	362.41
21	154	5.04	7.02	1.21	6.00	1.93	9.14
22	567	22.55	30.35	1.81	58.68	3.45	63.94
23	6601	229.34	480.75	557.72	2189.36	28.23	2775.31
Total	19096	548.88	943.51	739.07	4815.57	354.80	5909.44

5.12 (Contd.)

Products	Other output	Total output	Depreciation	Value added	Factory payments	Net Income
(9)	(10)	(11)	(12)	(13)	(14)	(15)
153.00	0.56	153.56	1.86	3.50	0.76	2.74
650.42	..	650.42	0.70	9.12	0.56	8.56
831.86	9.58	841.44	9.03	271.62	..	271.62
..	11.98	11.98	0.85	7.36	0.69	0.67
57.74	9.44	67.18	1.70	7.18	4.20	2.98
138.73	41.36	180.09	0.61	13.85	0.77	13.08
162.11	0.03	162.14	0.95	63.34	2.74	60.60
11 14	4.08	15.22	0.50	6.94	0.18	6.76
159.57	5.28	164.85	2.90	31.23	3.67	27.56
45.41	88.32	133.73	3.65	64.90	3.13	61.77
14.15	(—) 0.22	13.93	0.27	6.32	0.31	6.01
352.48	187.21	539.69	5.75	150.87	14.92	135.95
2.22	10.94	13.16	0.34	7.98	0.78	7.20
5.46	5.70	11.16	0.16	3.44	0.20	3.24
135.32	(—) 0.16	135.16	3.64	27.77	2.32	25.45
20.62	0.28	20.90	0.54	3.00	0.88	2.21
186.08	14.72	200.80	0.06	26.42	0.36	26.06
38.80	0.40	39.20	0.72	10.34	0.26	10.08
263.12	2.20	265.32	3.16	168.72	10.63	158.09
367.06	58.75	425.81	21.21	42.19	58.80	(-) 16.61
18.92	1.94	20.86	0.31	11.41	0.60	10.81
15.60	86.00	101.60	1.65	36.01	1.08	34.93
4064.73	62.97	4127.70	156.37	1196.02	72.93	1129.00
7694.54	601.36	8295.90	216.93	2169.53	180.77	1983.76

ANNUAL SURVEY OF
TABLE

Sl. No.	Code	Name of Industries	No. of units	Fixed capital
(1)	(2)	(3)	(4)	(5)
1	202	Canning and preservation of fruits and vegetables	3	7.53
2	203	Canning and processing of fish	3	61.28
3	212	Tea processing	4	10.36
4	214	Cashewnut processing	3	15.32
5	226	Manufacture of Beedi	208	6.48
6	231	Cotton spinning and weaving in mills	4	267.39
7	235	Weaving and finishing of textiles—Handlooms	81	64.11
8	236	Weaving and finishing—Power looms	15	25.66
9	239	Cotton textiles not elsewhere—Classified	4	5.74
10	260	Knitling mills	3	13.37
11	268	Manufacture of coir and coir products	3	7.50
12	270	Manufacture of veneers and plywood	14	176.77
13	271	Saw mills	77	41.65
14	276	Manufacture of wooden furniture and fixtures	4	12.16
15	320	Manufacture of structural clay products	8	15.30
16	341	Manufacture of structural metal products	6	1.84
17	943	Repair of motor vehicles	14	8.82
18		Other industries	51	195.47
Total			505	936.95

INDUSTRIES 1977-78

District: Cannanore

5.13.

Working Capital	Production capital	Invested capital	Outstanding Loans	Mandays worked	All workers	All Employees
(6)	(7)	(8)	(9)	(10)	(11)	(12)
(—) 0.07	7.46	15.46	13.64	4030	53	53
21.30	82.58	72.92	78.66	31721	149	205
9.78	20.14	17.68	..	101783	336	349
8.79	24.31	28.48	3.91	187882	1042	1092
49.00	55.48	83.28	4.87	4007186	14180	14454
109.83	377.22	465.49	211.57	728411	2436	2656
53.45	117.56	157.99	72.90	705413	2362	2789
14.23	39.89	50.96	31.34	182056	598	687
0.76	6.50	5.94	2.18	26332	86	112
4.54	17.91	23.57	27.92	53873	177	248
(—) 0.04	7.46	10.31	5.74	23721	79	96
145.53	322.30	360.79	130.99	363617	1224	1400
52.29	93.94	89.78	27.93	410135	1461	1776
10.52	22.68	23.18	2.48	45548	154	180
11.17	26.47	24.03	2.73	151980	605	694
6.10	7.94	3.60	1.90	9860	34	42
3.24	12.06	8.98	1.80	69180	206	238
87.46	282.93	327.28	191.24	404290	999	1652
587.88	1524.23	1769.72	816.80	7507018	26181	28723

Table

Sl. No.	Wages to workers	Total emoluments	Fuels etc. consumed	Materials consumed	Other In put	Total In put
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	0.20	0.74	0.13	3.93	0.86	4.92
2	3.09	5.19	2.93	30.53	5.87	39.33
3	8.99	10.92	6.94	99.73	3.49	104.16
4	17.66	23.28	0.37	144.51	2.30	147.18
5	321.32	356.49	1.48	819.84	138.54	959.86
6	128.36	155.69	27.65	638.81	30.93	697.39
7	69.27	100.51	8.35	504.31	87.27	599.93
8	19.73	27.12	3.30	71.66	12.17	87.13
9	1.92	2.90	1.32	0.58	0.56	2.46
10	4.36	9.00	1.99	44.30	4.31	50.60
11	1.33	2.23	0.38	1.22	0.63	2.23
12	19.24	54.45	37.21	331.58	82.89	451.68
13	27.59	39.03	7.41	162.05	32.56	202.12
14	7.08	12.50	1.44	12.46	2.08	15.98
15	16.33	23.17	10.26	6.11	4.75	21.12
16	0.90	1.22	0.14	2.84	0.34	3.32
17	11.29	14.06	3.60	19.15	1.57	24.32
18	33.57	67.54	50.99	301.82	76.00	428.81
Total	1687.22	906.04	165.89	3189.43	487.22	3842.54

5.13 (Contd.)

Products	Other out put	Total out put	Depre- ciation	Value added	Factory payments	Net income
(8)	(9)	(10)	(11)	(12)	(13)	(14)
5.63	0.08	5.71	0.80	(—)0.01	1.02	(—)1.03
42.51	3.11	45.62	6.43	(—)0.14	10.75	(—)10.89
160.72	..	160.72	1.11	55.45	..	55.45
179.27	1.56	180.83	1.36	32.29	2.03	30.26
1227.07	77.81	1304.88	0.49	344.53	2.27	342.26
867.21	8.43	875.64	24.61	153.64	30.00	123.64
709.14	31.40	740.61	7.29	133.39	10.11	123.28
112.50	8.65	121.15	3.30	30.72	2.95	27.77
..	5.98	5.98	0.62	2.90	0.14	2.76
62.33	1.20	63.53	1.54	11.39	2.90	8.49
5.80	0.01	5.81	0.59	2.99	0.76	2.23
674.84	29.02	703.86	26.83	225.35	25.73	199.62
234.87	34.13	269.00	4.13	62.75	4.42	58.33
35.54	0.62	36.16	1.04	19.14	1.16	17.98
58.25	1.45	59.70	1.61	36.97	1.17	35.80
2.62	2.00	4.62	0.16	1.14	0.20	0.94
..	42.27	42.27	0.62	17.33	0.52	16.81
542.58	76.93	619.51	9.95	180.75	31.40	149.35
4920.88	324.72	5245.60	92.48	1310.58	127.53	1183.05

APPENDIX
TABLE I
ANNUAL SURVEY OF

Sl. No.	Industry code	Name of Industry	No. of units
(1)	(2)	(3)	(4)
1	40	Generation and commission of electric energy	7
2	201	Manufacture of dairy products	5
3	202	Canning & preservation of fruits & vegetables	16
4	203	Canning and processing of fish	56
5	204	Manufacture of grain mill products	54
6	205	Manufacture of bakery products	5
7	206	Manufacture and refining of sugar	3
8	211	Manufacture of other edible oils	45
9	212	Tea processing	97
10	213	Coffee curing, roasting and grinding	7
11	214	Cashewnut processing	266
12	215	Manufacture of ice	4
13	216	Manufacture of prepared animal foods	4
14	217	Manufacture of starch	8
15	219	Manufacture of food products—others	9
16	220	Distilling and blending of spirits	3
17	222	Manufacture of malt liquors and malt	3
18	226	Manufacture of beedi	352
19	227	Manufacture of cigar and cigarettes	4
20	230	Cotton ginning, cleaning and baling	4
21	231	Cotton spinning and weaving in mills	24
22	232	Printing and dyeing of cotton textiles	5
23	235	Weaving and finishing of textiles - handloom	100
24	236	Weaving and finishing—powerlooms	15
25	239	Cotton textiles not elsewhere classified	4
26	247	Spinning and weaving of other textiles	3
27	260	Knitting mills	6
28	265	Manufacture of rain coats and hats	8
29	268	Manufacture of coir and coir products	66
30	270	Manufacture of veneers and plywood	91

INDUSTRIES 1977-78

(Rs. in lakhs)

Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loans	All workers (No.)	All Employees (No.)
(5)	(6)	(7)	(8)	(9)	(10)	(11)
27325.94	3143.61	30469.55	29749.06	29132.31	20319	30223
68.89	12.52	81.41	78.27	17.43	194	300
43.51	59.39	102.90	149.38	144.12	503	639
366.37	310.68	677.05	646.13	665.20	1707	2593
57.77	20.42	78.19	86.09	10.31	680	871
51.24	28.06	79.30	65.62	6.39	136	241
181.45	55.54	236.99	414.04	420.49	1346	2287
280.29	70.82	351.11	479.12	261.99	525	996
442.58	396.74	839.32	831.62	15.01	4275	6049
22.06	16.61	38.67	37.72	9.60	489	639
228.31	937.55	1165.86	1660.81	775.32	94243	102055
1.40	..	1.40	1.40	..	14	14
52.77	44.78	97.55	66.86	..	92	146
107.29	197.31	304.60	269.70	272.88	432	594
18.49	2.07	20.55	45.51	41.54	161	227
117.02	139.50	256.52	273.79	20.66	123	183
129.68	51.73	181.42	175.57	163.65	152	193
13.81	57.35	71.16	103.42	4.93	18826	19336
1.75	0.53	2.28	2.40	..	26	30
2.03	9.97	12.00	8.47	2.04	104	122
1235.26	603.82	839.08	2414.66	1751.36	9489	10386
6.17	9.93	16.10	21.11	17.86	110	148
76.90	108.15	185.05	215.67	111.59	3805	4420
25.66	14.22	39.88	50.97	31.34	598	687
5.75	0.76	6.51	5.94	2.18	86	112
518.35	299.59	817.94	955.74	403.08	1894	2361
17.12	12.42	29.54	33.43	32.95	326	419
1.90	73.34	75.24	56.73	89.86	218	320
132.60	309.93	442.53	472.30	370.55	2114	2737
386.27	279.40	665.67	772.19	411.85	3433	4205

Table

Sl. No.	Industry code	Name of Industry	No. of units	Fixed capital
(1)	(2)	(3)	(4)	(5)
31	271	Saw mills	398	184.28
32	272	Cane and bamboo works	10	7.82
33	273	Manufacture of wooden doors and windows	4	12.99
34	274	Manufacture of wooden industrial goods	6	4.99
35	276	Manufacture of wooden furniture and fixtures	24	37.87
36	280	Manufacture of paper and paper board	9	1312.76
37	281	Manufacture of containers and boxes of paper	9	39.47
38	284	Printing and publishing of newspaper	17	135.66
39	285	Printing and publishing of books and journals	65	150.65
40	289	Printing picture and post cards	32	118.04
41	300	Tyre and tube industries	16	551.50
42	302	Manufacture of rubber products—others	110	519.12
43	303	Manufacture of plastic and plastic products	11	55.64
44	310	Manufacture of organic and inorganic chemicals	28	2599.14
45	311	Manufacture of fertilisers and pesticides	21	5193.05
46	313	Manufacture of drugs and medicines	33	200.67
47	314	Manufacture of perfumes and lotions	11	434.73
48	315	Manufacture of edible oils	3	39.77
49	316	Manufacture of turpentine	8	836.05
50	317	Manufacture of m itches	11	2.04
51	320	Manufacture of structural clay products	235	339.20
52	323	Manufacture of chinaware and porcelainware	7	19.92
53	324	Manufacture of cement	5	34.64
54	329	Manufacture of non-metallic mineral products	8	364.42
55	330	Iron and steel industries	10	580.37
56	331	Costing and forging of iron and steel	24	177.85
57	335	Aluminium manufacturing	4	298.15
58	340	Manufacture of metal cane and tin plate	34	73.77
59	341	Manufacture of structural metal products	28	63.26
60	342	Manufacture of metal furniture and fixtures	4	8.37
61	343	Manufacture of hand tools and hardware	21	45.56

I (Contn.)

Working capital	Productive capital	Invested capital	Outstanding loans	Mandays worked (No.)	All workers (No.)	All employees (No.)	Wages to workers
(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
170.67	354.95	316.54	151.81	..	7451	8662	128.32
(—)0.13	7.69	19.48	24.01	..	94	138	4.37
4.32	17.31	24.62	13.98	..	158	194	4.33
3.10	8.09	11.81	5.89	..	72	90	1.37
89.14	127.01	122.93	28.92	..	784	978	34.58
555.38	1868.14	1960.98	489.45	..	2936	3669	137.69
29.11	68.58	61.35	38.98	..	115	168	3.58
193.77	329.43	256.71	236.34	..	1234	2202	81.75
354.12	504.77	429.12	26.50	..	2416	2862	139.02
84.56	202.60	204.64	58.62	..	978	1211	35.31
558.06	1109.56	1182.29	222.68	..	1311	1787	111.07
276.19	795.31	957.02	717.16	..	3752	4745	150.04
8.54	61.18	71.86	82.00	..	194	263	5.75
791.47	3390.61	3535.42	2215.84	..	2261	3409	272.94
1765.93	6958.98	7069.88	54.00	..	3386	4714	324.60
237.11	437.78	441.38	237.80	..	1107	1655	56.48
638.01	1072.74	1221.32	680.20	..	1225	1588	125.35
25.25	65.03	61.76	24.02	..	162	194	4.74
140.73	976.78	1006.80	96.51	..	955	1332	61.45
1.77	3.81	6.05	1.27	..	252	276	2.56
240.73	579.93	604.26	234.23	..	10774	12098	305.97
39.64	59.56	72.09	225.72	..	472	612	22.79
63.70	98.34	109.21	2.28	..	322	400	24.91
81.68	446.09	435.66	200.15	..	361	487	17.56
(—)188.55	391.82	708.57	717.11	..	712	1033	29.35
159.68	337.51	384.47	332.79	..	717	1075	40.89
584.21	882.36	802.30	22.93	..	897	1142	112.41
77.97	151.74	152.74	110.81	..	550	760	19.60
140.91	204.17	287.76	242.29	..	677	1004	24.38
7.98	16.35	22.67	13.81	..	62	92	1.31
32.94	78.50	91.82	86.12	..	784	967	28.82

Sl. No.	Industry group	Name of Industry	No. of units (No.)
(1)	(2)	(3)	(4)
62	344	Plating and polishing of metal products	3
63	345	Manufacture of metal utensils and cutlery	23
64	349	Manufacture of metal products—others	4
65	350	Manufacture of agricultural machinery and equipments	12
66	353	Industrial machinery for food and textiles	11
67	354	Industrial machinery for other than food	15
68	356	Manufacture of non-electrical machinery	6
69	357	Manufacture of machine tools	10
70	358	Manufacture of computing machinery and parts	3
71	359	Manufacture of sewing machines	13
72	360	Manufacture of transformers and electricals	17
73	361	Manufacture of insulated wires and cables	7
74	362	Manufacture of dry and wet batteries	4
75	363	Manufacture of electrical lamps and bulbs	3
76	364	Manufacture of radio and television	5
77	366	Manufacture of electronic components	3
78	367	Manufacture of electric components and accessories	4
79	369	Manufacture of electrical machinery	3
80	370	Ship building and repairing	23
81	376	Manufacture of bicycles and cycle rickshaws	6
82	380	Manufacture of medical and surgical equipments	10
83	387	Manufacture of pen and pencils	3
84	389	Manufacture of jewellery articles	7
85	420	Water supply and collection	4
86	972	Electrical repair shops	4
87	973	Repair of motor vehicles	4
88	979	Repair of enterprises	96
89		Others	3
			42
All Industries			2824

I (Contd.)

Fixed capital Rs. lakhs	Working capital Rs. lakhs	Productive capital Rs. lakhs	Invested capital Rs. lakhs	Outstand- ing loans Rs. lakhs	All workers (No.)	All Employees (No.)
(5)	(6)	(7)	(8)	(9)	(10)	(11)
6.69	0.42	7.11	6.88	..	27	44
35.12	23.22	58.34	80.26	15.26	254	370
4.84	0.75	5.59	8.40	7.27	160	198
219.77	272.22	491.99	630.09	316.67	240	426
7.88	20.66	28.54	27.57	6.11	252	293
19.72	4.75	24.47	38.85	17.34	254	323
8.58	2.86	11.44	12.19	12.89	50	72
580.59	447.06	1027.65	1177.88	402.01	1654	2575
0.85	1.04	1.89	1.73	0.16	20	26
27.44	(-)100.06	(-)72.62	44.84	14.39	314	396
728.37	953.11	1681.48	1781.56	1064.32	2005	2700
258.21	555.86	814.07	830.07	600.64	816	1426
148.45	53.02	201.47	257.80	133.95	269	462
225.36	(-)135.13	90.23	308.28	327.26	568	758
42.71	227.19	269.90	206.11	72.74	190	279
42.08	120.90	162.98	112.90	46.44	203	270
207.65	163.28	370.93	290.93	176.77	235	377
8.29	4.53	12.82	21.26	15.49	72	111
6897.27	1203.59	8100.90	9199.40	4645.50	1049	2155
10.03	22.86	32.89	25.67	49.56	108	128
334.39	327.49	661.88	695.45	403.89	700	1089
2.21	2.15	4.36	5.88	4.95	38	54
1.14	4.31	5.45	2.83	6.84	105	129
582.98	0.88	583.86	583.84	423.59	120	138
5.82	4.72	10.54	9.62	..	78	88
141.81	57.75	199.56	173.74	14.03	3386	3900
5.27	7.35	12.61	8.71	..	1041	1100
2195.37	2193.63	4389.00	5573.50	1186.98	4885	6151
59109.27	20875.14	79984.41	84893.38	52745.85	232684	279368

TABLE

Sl. No.	Wages Rs. lakhs	Total emoluments Rs. lakhs	Fuels consumed Rs. lakhs	Materials consumed Rs. lakhs	Other input Rs. lakhs	Total input Rs. lakhs	Products Rs. lakhs
(1)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1	840.38	1770.77	25.25	129.48	577.67	732.40	5329.61
2	10.21	18.21	9.88	314.98	20.54	345.40	428.05
3	10.87	19.00	4.44	376.60	14.52	395.56	326.15
4	43.78	73.46	54.75	2225.20	215.87	2495.82	2560.57
5	14.48	20.90	10.23	583.11	70.47	663.82	648.77
6	5.90	13.36	6.70	95.44	12.84	114.98	148.07
7	44.42	86.53	32.95	307.96	48.38	389.29	476.41
8	14.02	26.09	12.11	2550.80	271.70	2834.60	2666.80
9	133.99	200.87	219.82	3061.39	148.09	3429.30	5586.46
10	7.22	12.92	2.13	99.32	11.57	113.02	108.62
11	850.05	1184.24	40.26	6383.96	1199.50	7623.72	8568.55
12	0.31	0.31	0.12	0.34	0.22	0.68	4.42
13	3.77	8.80	1.22	194.32	1.98	197.52	239.28
14	16.75	28.29	28.39	250.47	36.74	315.60	490.56
15	5.12	9.01	2.98	202.90	14.45	220.33	227.65
16	8.71	19.00	18.49	224.03	102.42	344.94	393.74
17	7.07	13.82	8.24	67.81	10.03	86.08	101.59
18	403.57	448.65	3.09	1055.79	207.79	1266.67	1586.32
19	0.63	0.63	..	0.59	0.53	1.12	1.86
20	1.04	1.10	0.26	45.64	8.48	54.38	48.45
21	525.90	659.59	140.18	3222.80	874.34	4237.32	4480.77
22	4.84	7.58	4.07	37.14	2.60	43.81	35.57
23	103.93	149.88	11.09	609.02	97.95	718.06	903.17
24	19.73	27.13	3.29	71.66	12.18	87.13	112.49
25	..	4.80	1.31	0.58	0.57	2.46	..
26	150.89	237.77	192.79	946.09	106.26	1245.14	1629.88
27	6.55	12.17	2.36	61.68	5.19	69.23	87.74
28	6.76	10.55	0.52	104.89	128.07	233.48	118.02
29	76.14	130.45	12.07	1331.57	106.87	1450.51	1658.83
30	71.02	154.93	66.05	719.20	154.91	940.16	1351.91

I—(Contd.)

Other output Rs. lakhs	Total output Rs. lakhs	Depreciation Rs. lakhs	Value added Rs. lakhs	Factor payments Rs. lakhs	Net income Rs. lakhs
(19)	(20)	(21)	(22)	(23)	(24)
536.85	5866.46	618.66	4515.40	177.95	4337.45
0.45	428.50	7.68	75.42	0.79	74.63
128.31	454.46	3.43	55.47	18.14	37.33
178.69	2739.26	41.98	201.46	88.23	113.24
69.97	718.73	4.45	50.47	6.15	44.32
0.16	148.23	4.13	29.12	0.84	28.28
16.90	493.31	14.48	89.54	39.24	50.30
228.51	2895.31	17.83	42.88	37.01	5.87
13.52	5599.98	46.68	2124.00	2.09	2121.91
21.63	130.25	1.79	15.44	0.96	14.48
1183.33	9751.88	26.18	2101.98	164.91	1937.07
..	4.42	0.15	3.59	..	3.59
..	239.28	3.60	38.16	..	38.16
4.20	494.76	9.12	170.04	50.07	119.97
9.50	237.15	1.92	14.90	6.27	8.60
9.71	403.45	19.79	38.71	3.39	35.32
20.02	121.61	12.29	23.24	19.80	3.44
132.56	1718.88	1.56	450.65	3.86	446.79
0.17	2.03	0.16	0.74	..	0.74
6.32	54.77	0.20	0.19	0.09	0.10
781.25	5262.02	107.39	917.31	181.18	736.13
18.97	54.54	0.55	10.18	1.73	8.45
36.86	939.99	8.36	213.57	13.09	200.48
8.66	121.15	3.30	30.72	2.94	27.77
5.97	5.97	0.62	2.89	0.13	2.76
53.70	1683.58	60.53	377.91	80.98	296.93
1.34	89.08	1.73	18.12	4.43	13.69
135.96	253.98	0.20	20.30	10.73	9.57
58.07	1716.90	11.65	254.74	29.95	224.79
55.70	1407.61	48.93	418.52	54.77	363.75

Sl. No.	Industry code	Total emoluments	Fuels consumed	Materials consumed	Other input	Total input	Products
(1)	(2)	(14)	(15)	(16)	(17)	(18)	(19)
31	271	168.93	23.90	697.90	148.24	870.04	957.12
32	272	6.60	0.60	26.80	9.34	36.74	39.18
33	273	12.05	1.45	56.21	3.61	61.27	79.08
34	274	2.06	0.41	8.13	1.65	10.19	13.66
35	276	55.17	3.58	75.58	13.96	93.12	157.71
36	280	332.65	383.75	870.88	139.66	1394.29	2456.43
37	281	7.40	2.13	128.91	15.39	146.43	172.95
38	284	186.87	9.11	962.79	128.52	1100.42	997.09
39	285	179.38	3.68	102.92	29.06	135.66	220.54
40	289	51.45	4.05	190.98	62.59	257.62	220.47
41	300	238.52	73.23	1224.34	112.43	1410.00	1732.08
42	302	237.35	110.08	2612.08	199.64	2921.80	3707.91
43	303	9.63	0.71	41.34	2.92	44.97	54.53
44	310	482.97	567.21	1281.81	318.62	2167.65	3364.61
45	311	534.66	848.17	3539.05	537.75	4924.97	5852.93
46	313	115.30	29.09	466.19	47.0	542.35	815.91
47	314	156.25	124.38	2723.31	102.06	2950.35	3619.21
48	315	8.29	5.71	187.87	4.24	197.89	228.71
49	316	125.86	140.18	868.58	48.28	1057.04	1121.39
50	317	3.28	2.49	14.54	0.61	17.64	23.48
51	320	400.18	236.04	149.21	88.73	473.98	1057.17
52	323	36.13	13.28	8.28	13.15	34.71	63.84
53	324	41.79	95.22	58.04	11.26	164.52	257.94
54	329	29.80	14.47	77.58	20.90	112.95	125.42
55	330	49.50	84.96	286.32	82.47	453.74	424.78
56	331	75.27	33.46	393.68	35.53	462.67	574.65
57	335	192.34	323.72	889.99	173.88	1387.60	1997.16
58	340	29.74	4.48	237.65	38.58	280.71	322.66
59	341	55.04	8.12	158.74	60.78	227.64	291.02
60	342	3.51	0.39	13.49	1.55	15.38	20.22
61	343	45.19	20.98	128.25	22.01	171.24	245.66

I—(Contd.)

Other output	Total output	Depreciation	Value added	Factor payments	Net income
(20)	(21)	(22)	(23)	(24)	(25)
194.18	1151.30	15.68	265.58	22.31	243.27
13.85	53.03	0.75	15.54	3.00	12.54
81.51	80.59	1.04	18.28	2.06	16.22
2.11	15.77	0.39	5.19	0.99	4.20
11.88	169.59	2.83	73.64	3.65	69.99
35.81	2492.25	116.74	981.21	65.27	915.94
3.61	176.11	3.35	26.33	6.11	20.22
450.26	1447.35	15.40	331.53	49.09	282.44
108.47	329.01	11.82	181.53	4.08	177.45
113.34	333.81	8.27	67.92	10.14	57.78
225.73	1957.81	37.46	510.35	108.99	401.36
111.70	3819.61	66.02	831.79	78.38	753.41
3.43	57.96	6.06	6.93	0.97	5.96
105.79	3470.40	325.07	977.68	278.65	699.02
34.70	5887.63	693.86	268.80	510.67	(-)-241.87
45.59	861.50	15.97	303.18	27.02	276.16
39.95	3659.16	29.48	679.31	103.91	575.40
0.18	228.89	4.46	26.54	3.21	23.33
24.75	1146.14	49.11	39.98	11.59	28.39
(-)-0.08	23.40	0.14	5.60	0.28	5.32
20.08	1077.25	24.46	578.81	35.80	543.01
5.05	68.89	1.30	32.88	7.54	25.34
(-)-4.60	253.34	2.74	86.08	1.82	84.26
11.14	136.56	19.72	3.89	5.92	(-)-2.03
97.45	522.23	43.38	25.11	71.90	(-)-46.79
(-)-1.91	572.74	10.87	99.20	36.11	63.09
2.68	1999.84	35.94	576.30	2.58	573.71
11.83	334.49	5.10	48.68	14.23	34.45
11.75	302.77	5.11	70.02	35.92	34.10
2.33	22.55	0.81	6.36	2.37	3.99
11.48	257.14	4.33	81.57	13.14	68.43

TABLE

Sl. No	Industry code	Wages to workers	Total emoluments	Fuels consumed	Materials consumed	Other input	Total input
(1)	(2)	(14)	(15)	(16)	(17)	(18)	(19)
62	344	0.60	1.17	0.07	0.92	0.09	1.08
63	345	11.05	15.05	4.08	91.07	20.48	115.63
64	349	6.01	8.85	2.46	14.39	1.84	13.69
65	350	11.49	33.76	1.66	185.80	72.95	260.41
66	353	10.79	15.08	3.44	27.38	3.23	34.05
67	354	8.62	11.89	2.29	18.32	6.63	27.15
68	356	0.53	2.50	0.41	3.31	1.95	5.67
69	357	109.01	229.23	19.27	306.56	108.55	434.38
70	358	1.41	2.15	0.19	1.76	1.34	3.29
71	359	8.27	12.38	1.86	11.50	3.15	16.52
72	360	131.78	232.07	25.73	910.75	146.47	1083.05
73	361	54.24	135.09	27.34	1634.17	74.24	1735.75
74	362	19.42	43.12	7.06	330.50	55.49	392.98
75	363	34.24	61.44	37.86	171.15	18.29	227.30
76	364	8.13	17.31	0.14	112.11	27.18	140.05
77	366	9.46	19.66	1.76	95.17	20.72	117.65
78	367	11.40	34.03	2.96	73.96	14.73	91.67
79	369	3.49	7.30	0.27	11.62	3.87	15.76
80	370	82.10	228.45	20.71	433.62	169.55	623.88
81	376	8.23	11.19	0.73	16.63	27.29	44.65
82	380	74.21	104.92	5.37	351.33	35.77	392.47
83	387	0.97	1.53	0.37	6.97	0.97	8.31
84	389	1.93	2.85	0.21	14.18	1.94	16.33
85	420	6.91	8.31	16.79	31.21	3.79	51.79
86	972	3.23	4.33	0.34	4.18	0.29	4.81
87	973	230.05	295.72	33.68	573.80	26.73	634.21
88	979	99.65	118.71	2.34	5.54	3.35	11.23
89	Others.	375.19	548.30	245.90	28812.86	330.53	29389.25
		7023.91	11430.36	4550.06	78006.82	8119.24	90676.12

I—(Contd.)

Products	Other output	Total output	Depreciation	Value added	Factor payments.	Net income
(20)	(21)	(22)	(23)	(24)	(25)	(26)
0.36	0.81	1.17	0.47	(—)0.38	0.50	(-) 0.88
147.73	13.73	161.46	3.50	42.33	6.86	35.47
28.32	1.55	29.87	0.44	10.74	1.23	9.51
227.33	76.23	303.56	11.61	31.54	6.77	24.77
34.50	17.57	52.07	0.74	17.27	1.32	15.96
41.29	3.94	45.23	1.17	16.91	2.11	14.80
8.14	3.15	11.29	0.99	4.63	0.38	4.25
641.24	93.20	734.44	78.70	221.36	83.57	137.79
2.66	5.92	8.58	0.08	5.21	0.19	5.02
28.14	4.64	32.78	2.97	13.30	1.83	11.47
1418.74	203.53	1622.27	62.43	476.80	142.63	334.17
1980.84	107.25	2088.09	29.22	323.12	92.72	230.40
482.60	29.38	511.98	10.88	108.13	31.33	76.80
309.00	8.11	317.11	20.99	68.83	51.17	17.66
174.57	22.00	196.54	2.49	54.02	11.91	42.11
155.02	1.21	156.23	4.84	33.74	6.03	27.71
184.16	6.69	190.85	20.73	78.45	19.90	58.55
28.15	0.67	28.82	0.85	12.19	2.71	9.49
357.82	458.94	816.75	139.54	53.33	357.92(-)	304.59
53.51	0.47	53.98	0.96	8.37	1.05	7.32
617.44	11.54	628.98	28.70	207.81	41.59	166.22
11.54	0.17	11.71	0.23	3.17	0.37	2.80
20.31	0.47	20.78	0.12	4.32	0.54	3.78
198.70	..	198.70	56.34	90.57	41.19	49.38
7.77	2.88	10.65	0.69	5.15	0.02	5.13
56.98	920.25	977.23	11.22	331.80	3.72	328.08
..	129.62	129.62	0.48	117.90	0.16	117.74
31157.15	202.99	31360.18	275.14	1695.86	91.51	1604.38
109909.79	7737.79	117647.58	3403.52	23567.94	3518.65	20049.29

953

9/5

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