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GOVERNMENT OF KERALA

**REPORT
ON
ANNUAL SURVEY
OF
INDUSTRIES
1984-85**

DEPARTMENT OF ECONOMICS & STATISTICS
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DEPARTMENT OF HEALTH

REPORT

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GOVERNMENT OF KERALA

REPORT ON
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DEPARTMENT OF ECONOMICS & STATISTICS

TRIVANDRUM

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P R E F A C E

This report relating to Annual Survey of Industries 1984-85 is the nineteenth publication in the series. A broad picture of the pattern and growth of the registered factory sector of Kerala is presented.

Important features and results of the survey are presented under four chapters. The first one deals with the coverage, concepts, definition etc.

While the second chapter provides a review of the results of the survey, the third gives an analysis of the major structural characteristics and the fourth deals with the relative importance of different industries.

The report was prepared by Smt. J. Beatrice, Assistant Director with the aid of the staff of the Industrial Statistical Unit of the Department of Economics and Statistics. The work done by Shri. G. Sudhakaran, Sri.P.T. Ayyappan and Sri. N. Sasikumar in this regard is especially acknowledged.

Suggestions, if any, for improvement of the report are welcome.

Trivandrum,

25--1--1990.

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Chapter I

GENERAL

1.1 Introduction

The Annual Survey of Industries is the primary source of data on registered industries in the State. It provides valuable data on various aspects of the registered industrial sector covering economic activities relating to manufacturing, electricity, gas, water supply and repair services. The survey is conducted every year under the statutory provisions of the Collection of Statistics Act 1953 and the rules framed thereunder in 1959. The field work of the survey is being carried out by the Field Operation Division of the National Sample Survey Organisation, Government of India. The Director, Field Operation Division (FOD), National Sample Survey Organisation (NSSO) is the statistics authority appointed under the above Act for the collection of these statistics.

1.2 Scope and coverage

The survey covers broadly three types of units. The factories registered under sections 2m(i) and 2m(ii) of the Factories Act 1948, which are using power and employing 10 or more workers and those not using power but employing 20 or more workers on any day of the preceding 12 months, from the first type. Also this category includes the repair services unit incidental to manufacturing activities such as cold storages, repair of foot wear and other leather goods, electrical repair shops and repair of other consumer durable items. The second type comprises electricity undertaking registered with the Central Electricity Authority and various water supply undertakings. The third type includes those bidi and cigar establishments which are registered under Bidi and Cigar Workers (condition of employment) Act 1966. Oil storage and distribution units, restaurants and cafes, establishments coming under the control of the Department of Defence Production which are not engaged in the production of any item for sale or exchange and technical training institute are excluded from the purview of the survey though they may be registered as factories under Factories Act 1948.

The unit of enumeration in Annual Survey of Industries is a factory in the case of manufacturing industries, a workshop in the case of repair services, an undertaking in the case of electricity and water supply and an establishment in the case of bidi and cigar industries. The owner of two or more units located in the same state and pertaining to the same industry group is permitted to furnish a single consolidated return.

The annual survey of industries frame is revised and updated once in two years. The factories included in the survey are grouped into two sector viz. census and non-census sectors. Units employing 50 or more workers and using power and those employing 100 or more workers without using power are grouped under the census sector while the remaining units constitute the non-census sector. This classification is done on the basis of employment figures of the previous years' returns. Once a unit is classified into the census or the non-census sector its status is not altered for a period of two years ie. till the frame is revised.

All the units in the census sector, all electricity undertakings and units in specified categories of the non-census sector have been covered in this survey on a complete enumeration basis. The units from the non-census sector which are completely enumerated belong to -

(i) those industries where the total number of units do not exceed 50 at the all India level.

(ii) Units located in relatively less industrialised States.

The sampling units are listed in descending order of employment. Having thus arranged and serially numbered the non-census sampling units in a stratum, units with odd serial numbers are surveyed during the first year after the revision of the frame and those with even numbers during the next year.

Reference period for Annual Survey of Industries 1984-85 was the financial year commencing on 1st April 1984 (ie. 1st April 1984 to 31st March 1985).

Limitation

The data presented in this report relates to the factories responded

to the survey only. The factories which did not respond constituted only a negligible proportion (4 per cent) of the total number of factories.

1.3 Concepts and definitions

Reference year for A.S.I. 1984-85 is the accounting year of the factory ending on any day during the fiscal year 1984-85 ie. 1st April 1984 to 31st March 1985.

Registered factory is one which is registered under sections 2m(i) and 2m(ii) of the Factories Act 1948. The sections 2m(i) and 2m(ii) refer to any premises including the precincts thereof (i) whereon ten or more workers are working or were working on any day of the preceeding twelve months, and in any part of which a manufacturing process is being carried on with the aid of power or is ordinarily so carried on or (ii) whereon twenty 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 on without the aid of power, or is ordinarily so carried on.

Gross Value of Plant and Machinery represents the total original (underpreciated value of installed plant) and machinery as at the end of the accounting year. It includes the book value of own constructed plants and machinery if installed, and the approximate value of rented-in plants and machinery as at the time of renting in but excludes the value of rented-out plants and machinery. Total value of all the plants and machinery acquired on hire purchase basis is also included.

Fixed Capital represents the depreciated value of fixed assets owned by the factory on the closing day of the accounting year. Fixed assets are those which have normal productive life of more than one year. Fixed capital covers all types of assets, new or used or own constructed, deployed for production, transportation, living or recreational facilities, hospitals, schools etc. for factory personnel. It includes the fixed assets of the Head office allocable to the factory and also the full value of assets taken on hire purchase basis (whether fully paid or not) excluding interest element. It excludes intangible assets and assets solely used for post manufacturing activities such as sale, storage, distribution, etc.

Physical working capital is defined to include all physical inventories owned, held or controlled by the factory as on the closing day of the accounting year such as the materials, fuels and lubricants, stores etc., that enter into products manufactured by the factory itself or supplied by the factory to others for processing. Physical working capital also includes the stock of materials, fuels and stores, etc. purchased expressly for resale, semi-finished goods and work in progress on account of others and goods made by the factory which are ready for sale at the end of the accounting year.

However, it does not include the stock of the materials, fuels, stores, etc. supplied by others to the factory for processing. Finished goods processed by others from raw materials supplied by the factory and held by them are included and finished goods processed by the factory from raw materials, supplied by others, are excluded.

Working Capital is the sum total of the physical working capital as already defined above and the cash deposits in hand and at bank and the net balance of amounts receivable over amounts payable at the end of the accounting year. Working capital, however, excludes unused overdraft facility, fixed deposits irrespective of duration, advances for acquisition of fixed assets, long-term loans including interest thereon and investments.

Productive capital is the total of fixed capital and working capital.

Invested capital is the total of fixed capital and physical working capital.

Depreciation is consumption of fixed capital by the factory due to wear and tear and obsolescence during the accounting year and is taken as provided by the factory owner or is estimated on the basis of cost of installation and working life of the fixed assets.

Outstanding loans represent all loans, whether short term or long term, whether interest bearing or not, outstanding according to the books of the factory as on the closing day of accounting year.

Workers are defined to include all persons employed directly or through any agency whether for wages or not and engaged in any manufacturing process or in cleaning any part of the machinery or premises used for

manufacturing process or in any other kind of work incidental to or connected with the manufacturing process or the subject of the manufacturing process. Labour engaged in the repair and maintenance or production of fixed assets for factory's own use or labour employed for generating electricity or producing coal gas are included. However persons holding positions of supervision or management, or employed in administrative office, store keeping section and welfare section, watch and ward staff, sales department as also those engaged in the purchase of raw materials etc. and in production of the fixed assets for the factory are excluded.

Employees - relate to all persons engaged by the factory whether for wages or not, in work connected directly or indirectly with the manufacturing process and include all administrative, technical, clerical staff as also labour engaged in production of capital assets for factory's own use.

This is inclusive of persons holding position of supervision or management or engaged in administrative office, store keeping section and welfare section, watch and ward staff, sales department as also those engaged in the purchase of raw materials etc. and the production of fixed assets for the factory.

It also include all working proprietors and their family members who are actively engaged in the work of the factory even without any pay and the unpaid members of the co-operative societies who worked in or for the factory in any direct and productive capacity.

The average number of workers or employees is obtained by dividing mandays worked (defined below) by the number of days on which the manufacturing process was carried on during the reference year.

In case of factories where only repair maintenance or construction activity was carried on, the average is calculated by dividing the mandays worked by the number of days repair and maintenance/construction work carried on.

Mandays worked - represent the total number of mandays worked and not mandays paid for by the factory during the accounting year. It is obtained by summing up the number of persons of specified categories attending in each shift over all the shifts worked on all days (working and

non-working).

Wages - are defined to include all remuneration capable of being expressed in monetary terms and also payable more or less regularly in each pay period to workers (defined above) as compensation of work done during the accounting year. It includes (a) direct wages and salary (ie. basic wages/salaries, payment of overtime, dearness, compensatory, house rent and other allowances), (b) remuneration for period not worked (ie. basic wages, salaries and allowances payable for leave period, paid holidays, lay off payments and compensation for unemployment, if not paid from sources other than employers), (c) bonuses and ex-gratia payment paid both at regular and less frequent intervals (ie. incentive bonuses, good attendance bonuses, productive bonuses, profit sharing bonuses, festival or year end bonuses etc.) It excludes lay off payments which are made from trust or other special funds set up expressly for this purpose ie. payments not made by the employer. It also excludes imputed value of benefits in kind, employers contribution to old age benefits and other social security charges, direct expenditure on maternity benefits and creches and other group benefits, travelling and other expenditure incurred for business purposes and reimbursed by the employer are excluded. The wages are expressed in terms of gross value ie., before deductions for fines, damages, taxes, provident fund, employees state insurance contribution etc.

Emoluments are defined in the same way as wages defined above but paid to all employees plus imputed value of benefits in kind ie., the net cost to the employer on those goods and services provided to employees free of charge or at markedly reduced cost which are clearly and primarily of benefit to the employees as consumers.

Fuels, etc. consumed - represent total purchase value of all items of fuels, lubricants, electricity, water etc. consumed by the factory during the accounting year excepting those which directly enter into products as materials consumed. It excludes that part of fuels which is produced and consumed by the factory in manufacturing ie. all intermediate products and also fuels consumed by employees as part of amenities. It includes quantities acquired and consumed from allied concerns, their book value

being taken as their purchase value and also the quantities consumed in production of machinery or other capital items for factory's own use.

Material consumed - represent the total delivered value of all items of raw materials, components, chemicals, packing materials and stores which actually entered into the production process of the factory during the accounting year. Also include the cost of all materials used in the production of fixed assets including construction work for factory's own use. It, however, excludes all intermediate products consumed during the accounting year (Intermediate products in the above context mean all those products which are produced by the factory but are subject to further manufacturing process).

Total inputs - comprises gross value of fuels, materials etc. consumed (as defined above) and also other inputs viz. (a) cost of non-industrial services received from others, (b) cost of materials consumed for repair and maintenance of factory's fixed assets including cost of work done by others to the factory's fixed assets, (c) cost of contract and commission-work done by others on materials supplied by the factory, (d) cost of office supplies and products reported for sale during the previous year and used for further manufacture during the accounting year and (e) purchase value of goods sold in the same condition as purchased.

Products - are defined to include the exfactory value (ie. exclusive of taxes, duties etc. on sale and inclusive of subsidies etc. if any) of all products and by-products excluding intermediate products that have been completed during the accounting year for sale whether actually sold during accounting year or entered into books. Also include fixed assets produced by the factory for its own use.

Semi-finished goods - refer to the inputted value of all materials which have been partially processed by the factory but which are not usually sold without further processing. It includes the work in progress on account of others, but excludes the value of semi-finished fixed assets produced for factory's own use.

Gross output - is defined to include the ex-factory value of products and by-products manufactured during the accounting year. It also includes the net value of the semi-finished goods completed or work in progress and

also the receipts for industrial and non-industrial services rendered to others, value of semi-finished goods of last year sold in current year and sale value of goods sold in the same condition as purchased. These terms gross output, value of output and total output have been used in the text interchangeably to mean the same thing.

Net value added - is the increment to the value of goods and services that is contributed by the factory and is obtained by deducting the value of total inputs and depreciation from value of output.

Factor payments - represent the share in value added of income from capital and is the sum total of rent and interest as defined below.

Rent - represents the amount of royalty paid in the nature of rent for the use of the fixed assets in the factory (Note in the summary reports published for 1973-74 to 1978-79, concept of rent was exclusive of land rent).

Interest - includes all interest paid on factory account on loans, whether short term or long term, irrespective of the duration and the nature of agency from which the loan was taken.

Net income - represents the factor shares of employees and entrepreneur in the value added and is obtained by deducting the factor payments (as defined above) from the value added.

1.4 General findings of the survey

The Annual Survey of Industries for 1984-85 shows that the capital structure of the registered industrial sector has made an overall development though the number of factories covered has decreased by 2.68 per cent compared to 1983-84. A slight improvement is noted in the employment position also.

About 3014 factories responded to the survey. The total investments during the year in these factories is Rs.1912.64 crores of which Rs.1268.87 crores are in the fixed capital. The output and input are Rs.2417.18 crores and Rs.1760.85 crores respectively. The value added by manufacture is Rs.568.30 crores. The factories employed 250 thousands of people and disbursed 256.50 crores by way of emoluments.

Chapter 2
THE RESULTS OF THE SURVEY

2.1 Salient features

The important results of the survey are presented in this chapter for the factory sector as a whole as well as for the three sectors of the economic activity namely manufacturing electricity and water supply and other repair services. This chapter includes the structural ratios and technical co-efficient also.

The principal aggregates of the registered factory sector at the state level for the year 1984-85 as compared to the year 1983-84 are given below in table 1.

Table 1 - Salient Features

Aggregates	Units	1983-84	1984-85	Percentage increase in 1984-85
1	2	3	4	5
1. Factories covered	Nos.	3097	3014	(-) 2.68
2. Fixed capital	Rs.in lakhs	120604.68	126887.06	5.21
3. Working capital	"	51502.38	54497.58	5.82
4. Productive capital	"	172107.06	181384.64	5.39
5. Invested capital	"	177676.88	191263.51	7.65
6. Outstanding loan	"	148167.60	154081.16	3.99
7. Workers	Nos.	200757	194695	(-) 3.02
8. Employees	"	240803	250963	4.22
9. Wages to workers	Rs.in lakhs	15618.14	15695.72	0.50
10. Total emoluments	"	22208.03	25649.52	15.50
11. Input	"	174375.61	176084.78	0.98
12. Output	"	234279.22	241718.26	3.18
13. Depreciation	"	7806.02	8803.53	12.78
14. Value added	"	52097.60	56829.95	9.08
15. Factor of payment	"	10808.72	10664.31	(-) 1.34
16. Net income	"	41288.55	46165.64	11.81

It may be seen from the above table that inspite of a slight fall in the number of factories reported during 1984-85, fixed capital, productive capital and invested capital have made remarkable increase.

In the case of fixed capital an increase of Rs.6282.38 lakhs is recorded. The fixed capital has gone up to Rs.126887.06 lakhs from Rs.120604.68 lakhs recording an increase of 5.21 per cent. The working capital has rose by 5.82 per cent increasing the amount from Rs.51502.38 lakhs in 1983-84 to Rs.54497.58 lakhs during 1984-85. The productive capital has made an increase of 5.39 per cent by raising the amount from Rs.172107.06 lakhs in 1983-84 to 181384.64 lakhs in 1984-85. The invested capital has gone up by 7.65 per cent by increasing the amount from Rs.177676.88 lakhs in 1983-84 to Rs.191263.51 lakhs in 1984-85. The outstanding loan has made an increase of 3.99 per cent by raising the amount from Rs.148167.60 lakhs in 1983-84 to Rs.154081.16 lakhs in 1984-85.

The number of employees has increased by 4.22 per cent. The employment figures in this sector during the year 1983-84 was 240803. But during 1984-85 it is 250963.

The total emoluments of the employee has gone up to Rs.25649.52 lakhs from Rs.22208.03 lakhs recording an increase of 15.50 per cent. The total input of the sector has increased from Rs.174375.61 lakhs to Rs.176084.74 lakhs recording an increase of 0.98 per cent. The total output has gone up from Rs.234279.22 lakhs to Rs.241718.28 lakhs, showing an increase of 3.18 per cent. The net value added has enhanced from Rs.52097.60 lakhs to 56829.95 lakhs recording an increase of 9.08%. At the same time the factor of payment for the year 1984-85 has come down from Rs.10808.72 lakhs to 10664.31 lakhs showing a decrease of 1.34%. The net income has gone upto Rs.46165.64 lakhs from Rs.41288.55 lakhs recording an increase of 11.81 per cent.

2.2 Selected aggregates by principal economic activity.

The relative shares of the selected aggregates by the three broad divisions of economic activity -

- i. Manufacturing
- ii. Electricity and Water supply
- iii. Repair services are presented in the table below

Table 2 - Selected aggregates by principal economic activity 1984-85

Items	Units	Manu- facturing	Electricity & water supply	Repair services	All Industries
1	2	3	4	5	6
1. No.of factories	Nos.	2884 (95.69)	12 (0.40)	118 (3.91)	3014 (100)
2. Fixed capital	Rs.in lakhs	78494.32 (61.85)	47940.87 (37.78)	451.87 (0.36)	126887.06 (100)
3. Working capital	"	33705.72 (61.86)	20607.34 (37.81)	184.52 (0.34)	54497.58 (100)
4. Productive capital	"	112200.04 (61.86)	68548.21 (37.79)	636.39 (0.35)	181384.64 (100)
5. Employees	Nos.	219271 (87.37)	24297 (0.68)	7395 (2.95)	250963 (100)
6. Total emoluments	Rs.in lakhs	20320.13 (79.22)	4069.58 (15.87)	1259.81 (4.91)	25649.52 (100)
7. Total input	"	173103.49 (98.31)	2416.81 (1.37)	564.48 (0.32)	176084.78 (100)
8. Total output	"	226632.54 (93.76)	13571.02 (5.61)	1514.70 (0.63)	241718.26 (100)
9. Value added	"	46153.52 (81.21)	9769.13 (17.19)	907.30 (1.60)	56829.95 (100)
10. Factor of payment	"	10640.76 (99.78)	12.22 (0.12)	11.33 (0.11)	10664.31 (100)
11. Net income	"	35512.76 (76.92)	9756.91 (21.14)	895.97 (1.94)	46165.64 (100)
12. Workers	Nos.	173233 (88.98)	15089 (7.75)	6373 (3.27)	194695 (100)

(figures given in brackets are percentages)

It may be observed from the above table that 95.69 per cent of the total factories covered in the survey belongs to the manufacturing sector. In the previous year it was 96.48 per cent. Of the remaining, 3.91 per cent belongs to repair service and 0.40 per cent in the electricity and water supply. In the previous year they were 3.07 per cent and 0.45 per cent respectively. This indicates that there is no progress in the manufacturing sector as well as in electricity and water supply.

The electricity and water supply undertakings accounted for 37.78 per cent of the total fixed capital though their number is very few. The manufacturing units covering all other units except repair services units constitute 61.86 per cent of fixed capital. The comparative figure for 1983-84 is 63.20 per cent. The electricity and water supply undertaking covered 37.78 per cent of the fixed capital and the corresponding figure for 1983-84 is 36.48 per cent. The repair services had only 0.36 per cent of the fixed capital.

Though 87.37 per cent of the total employees belonged to the manufacturing sector, its share in the total emoluments constituted only 79.22 per cent. This indicates the low rate of emoluments per employee. Electricity and water supply covered 15.87 per cent of the total emoluments for 9.68 per cent share of employees. Similarly repair services covered 4.91 per cent of the total emoluments against for 2.95 per cent of the employees.

These showed that the average emoluments per employee was the highest in repair services, (Rs.17035) followed by electricity and water supply (Rs.16749) and manufacturing sector (Rs 9267). Though 93.76 per cent of the total output was from the manufacturing sector, the value added from this sector constituted only 81.21 per cent of the total. But from 5.61 per cent of output the electricity sector was able to raise 17.19 per cent of the total value added. Factor of payment was very high in manufacturing sector with 99.78 per cent. But it was very meagre in electricity and repair services.

2.3 Structural ratios and technical co-efficients

The structural ratios and technical co-efficients for the entire industrial sector under study for the year 1984-85 are presented in table 3.

Items one to six give per factory ratios and 7 to 11 give per employee ratios. Technical co-efficients are shown against item 12 to 15.

Table 3 - Structural ratios and technical coefficients

Sl. No.	Structural ratios/ Technical coefficients	Manu- Units cturing	Electricity & water supply	Repair services	All Industries	
	1	2	3	4	5	6
<u>Structural ratios</u>						
1.	Fixed capital per factory	Rs.in lakhs	27.22	3995.07	3.83	42.10
2.	Productive capital per factory	"	38.90	6712.35	5.39	60.18
3.	Gross output per factory	"	78.58	1130.92	12.84	80.20
4.	Value added per factory	"	16.00	814.09	7.69	18.86
5.	Workers per factory	Nos.	60	1257	54	65
6.	Employees per factory	"	76	2025	63	83
7.	Fixed capital per employee	Rs.	35798	197312	6110	50560
8.	Productive capital per employee	"	51170	282126	8606	72275
9.	Gross output per employee	"	103357	55855	20483	96316
10.	Value added per employee		21049	40207	12269	22645
11.	Emoluments per employee		9267	16749	17036	10220
<u>Technical coefficients</u>						
12.	Fixed capital to value added		1.70	4.91	0.50	2.23
13.	Fixed capital to gross output		0.35	3.53	0.30	0.52
14.	Value added to gross output		0.20	0.72	0.60	0.24
15.	Emoluments to value added		0.44	0.42	1.39	0.45

From the above table it may be seen that an average factory in the state had a fixed capital of Rs.42.10 lakhs and a productive capital of Rs.6018 lakhs. On an average it employed 83 persons on each working day and produced a gross output worth Rs.80.20 lakhs in the year. The value added per factory during 1984-85 was Rs.18.86 lakhs. An average factory in the electricity and water supply sector had a fixed capital of Rs.3995.07 lakhs and a productive capital of Rs.5712.35 lakhs. It employed 2025 persons and produced output worth Rs.1130.92 lakhs. On the contrary an average factory in the repair services had been working with a fixed capital of Rs.3.83 lakhs. It employed 63 persons and produced output worth Rs.12.84 lakhs during the current year.

An employee in the registered industrial sector on an average had been working with a fixed and productive capital of Rs.50 thousand and Rs.72 thousand respectively. The average emoluments drawn by an employee during the year was Rs.10220. The gross output per employee in all industries was Rs.96 thousand and value added per employee was Rs.22 thousand. The fixed capital per employee was highest in manufacturing sector. Next to it was in the electricity and water supply sector. The average fixed capital required to employ a person in the repair service sector was only Rs.6110. The productive capital per employee is only 8606 in this sector. The highest gross output per employee was in the manufacturing sector (Rs.103357) followed by electricity sector (Rs.55855) and repair services. The value added per employee during the year was Rs.22645. Electricity sector stood in the first place with Rs.40207 followed by manufacturing sector with Rs.21049 and then repair services with Rs.12269. The average emoluments per employee in the repair services were Rs.17036 while the emoluments in the electricity and manufacturing sector were Rs.16749 and Rs.9267 respectively.

The capital output ratio measured as the ratio of fixed capital to value added is that is the ratio of fixed capital required to produce unit value is 2.36 during the year. The ratio of fixed capital to gross output is 0.52. The value added to the value of gross output is 0.24.

Chapter 3

ANALYSIS OF MAJOR STRUCTURAL CHARACTERISTICS -
ALL INDUSTRIES

The factories surveyed during the year under report are classified under major industrial groups at three digit level of National Industrial classification codes 1970 and their important structural characteristics are presented in this chapter.

3.1 Number of units

The details of industries having 20 units or more and the number of census units in each of the major industrial groups are given in table 4.

Table 4 - Arrangement of industries according to number of units 1984-85

Sl. no.	Code	Name of industry	No. of units	Census sector	% to total no. of units
1	2	3	4	5	6
1.	271	Sawing and planing of wood (other than plywood)	548	22	18.18
2.	226	Manufacture of beedi	325	31	10.78
3.	320	Manufacture of structural clay products	274	54	9.09
4.	214	Cashewnut processing	260	208	8.63
5.	302	Manufacture of rubber products	147	19	4.88
6.	973	Repair of motor vehicles and motor cycles	105	37	3.48
7.	235	Weaving and finishing of cotton textiles in handlooms	92	22	3.05
8.	212	Tea processing	87	53	2.89
9.	270	Manufacture of veneer, plywood and their products	84	14	2.79
10.	268	Manufacture of coir & coir products	80	18	2.65
11.	203	Canning, preserving and processing of fish	63	13	2.09
12.	285	Printing and publishing of periodicals, books, etc.	54	10	1.79
13.	340	Manufacture of fabricated metal products	47	4	1.56

(contd.)

1	2	3	4	5	6
14.	313	Manufacture of drugs and medicines	42	7	1.39
15.	289	Printing, publishing & allied activities not elsewhere classified like envelops printing, picture post card printing, embossing etc.	38	4	1.26
16.	211	Manufacture of other edible oils and fats	38	2	1.26
17.	204	Grain mill products	34	4	1.13
18.	343	Manufacture of hand tools & hardware	30	8	1.00
19.	231	Cotton spinning, weaving, shrinking in mills	28	26	0.93
20.	310	Manufacture of basic and industrial organic and inorganic chemicals	27	9	0.90
21.	284	Printing and publishing of newspaper	23	15	0.76
22.	341	Manufacture of structural metal products	22	4	0.73
23.	276	Manufacture of wooden furniture and fixtures	21	5	0.70
24.	359	Manufacture and repair of non-electrical machinery	21	1	0.70
25.	331	Foundries for casting and forging iron and steel	20	4	0.66
		Other industries	504	147	16.72
		All industries	3014	741	100.00

The above table shows that in terms of number of units registered, sawing and planing of wood (other than plywood) topped the list and was followed by manufacture of beedi, manufacture of structural clay products cashewnut processing, manufacture of rubber products and repairs of motor-vehicles and motor cycles. These industries held the first six ranks. About 55% of the total units which come under these six groups of industries shows their relative importance in the industrial structure of the state and its economy. There are 25 industries in the state having 20 or more units as against 28 such industries in 1983-84.

3.2 Fixed capital

The fixed capital investment during the year under report is estimated as 1268.87 crores as against 1206.05 crores in the previous year. Distribution of fixed capital under different items of investment is given in table 5.

Table 5 - Distribution of fixed capital - All industries

Sl.No.	Item	1984-85	
		Amount Rs.in lakhs	% to total
1	2	3	4
1.	Land	3384.74	2.67
2.	Improvement to land	5140.55	4.05
3.	Building	15295.59	12.05
4.	Plant and machinery	44601.09	35.15
5.	Transport equipment	1346.72	1.06
6.	Tools & other fixed assets	25111.42	19.79
7.	Assets under construction	32006.95	25.23
	Total	126887.06	100.00

The above break-up shows that 35.15% of the total investment is in plant and machinery while 19.79% is in tools and other fixed assets. The investment in building and other assets under construction is 37.28%. The share of the other components of fixed capital including land is 7.78% of the total fixed capital.

The fixed capital investment is the highest in "Generation and transmission of Electric Energy" which is more capital intensive. The investment under this group is Rs.47798.48 lakhs. This constitutes 37.67% of the total fixed capital investment. The manufacture of petroleum products not elsewhere classified comes next with an investment of Rs.17030.97 lakhs which

forms 13.42% of the total investment. The manufacture of pulp, paper and paper board is ranked third with an investment of Rs 12647.33 lakhs. About 9.97% of the fixed capital investment is in this industry. These three groups of industries share 61.06% of the total fixed capital.

There are 45 groups of industries with a fixed capital investment of 2 crores and above. The industries are arranged in descending order of fixed capital investment in the table below.

Table 6 - Arrangement of industries according to fixed capital - 1984-85

sl. no.	Code	Name of industry	Fixed capital Rs.in lakhs	Percentage to total
1	2	3	4	5
1.	400	General transmission of electric energy and its distribution	47798.48	37.67
2.	304	Petroleum refineries	17030.97	13.42
3.	280	Manufacturing of pulp, paper & paper board	12647.33	9.97
4.	370	Ship building and repairing	8800.02	6.93
5.	311	Manufacture of fertilizers & pesticides	7148.22	5.63
6.	231.	Cotton spinning weaving and finishing of cotton textiles	4157.45	3.28
7.	310	Manufacture of basic industrial organic and inorganic chemicals and gases	2298.51	1.81
8.	319	Manufacture of chemical products not elsewhere classified	1736.53	1.37
9.	300	Tyre and tube industries	1726.18	1.36
10.	367	Manufacture of electronic components and accessories	1339.78	1.06
11.	361	Manufacture of insulated wires & cables	1271.08	1.00
12.	360	Manufacture of electrical industrial machinery and apparatus and parts	1198.55	0.94
13.	302	Manufacture of rubber products not elsewhere classified	1163.85	0.92
14.	357	Manufacture of machine tools, their parts and accessories	1092.92	0.86
15.	330	Iron and steel industries	982.95	0.77
16.	270	Manufacture of veneer, plywood and their products	958.35	0.76

(contd.)

1	2	3	4	5
17.	212	Tea processing	946.91	0.75
18.	320	Manufacture of structural clay products	747.65	0.59
19.	366	Manufacture of electronic computer and other equipments	723.42	0.57
20.	331	Foundries for casting and forging iron and steel	717.49	0.57
21.	203	Canning, preserving and processing of fish	700.72	0.55
22.	314	Manufacture of perfumes, cosmetics, lotions, hair dressings	644.27	0.51
23.	284	Printing and publishing of newspapers	642.77	0.51
24.	285	Printing and publishing of periodicals books and journals	566.74	0.45
25.	380	Manufacture of medical, surgical and scientific equipments	515.12	0.41
26.	375	Manufacture of motor-cycles and scooters and parts.	471.04	0.37
27.	335	Aluminium manufacturing	426.97	0.34
28.	364	Manufacture of radio and television, transmitting and receiving sets including transistor radio	420.18	0.33
29.	973	Repair of motor vehicles and motor cycles	411.54	0.31
30.	220	Distilling rectifying and blending of spirits	399.43	0.
31.	329.	Manufacture of miscellaneous non-metal mineral products	372.61	0.29
32.	268	Manufacture of coir and coir products	367.98	0.29
33.	313	Manufacture of drugs and medicines	329.40	0.26
34.	336	Zinc manufacturing	319.24	0.25
35.	271	Sawing & planing of wood other than plywood	302.53	0.24
36.	341	Manufacture of structural metal products	288.72	0.23
37.	247	Spinning, weaving and finishing of synthetic fibres, rayons etc.	282.76	0.22
38.	362	Manufacture of dry and wet batteries	278.90	0.22
39.	214	Cashewnut processing like drying, shelling	265.84	0.21
40.	261	Manufacture of all types of threads, cordage ropes etc.	237.96	0.19
41.	363	Manufacture of Electrical apparatus, appliances and other parts	233.22	0.18

(contd.)

(contd.)

1	2	3	4	5
42.	211	Manufacture of other edible oils	211.87	0.17
43.	350	Manufacture of agricultural machinery and parts	208.27	0.16
44.	340	Manufacture of fabricated metal products	205.22	0.16
45.	343	Manufacture of hand tools and general hardware products	204.53	0.16
		Other industries	3092.59	2.44
		All industries	126887.06	100.00

3.3 Working capital

The working capital in the factory sector during the year 1984-85 is estimated at Rs.545 crores against 515 crores in the previous year. The working capital utilisation is the highest in the generation and transmission of Electric energy with 37.80% followed by manufacture of fertilizers and pesticides with 8.53%. There are 34 groups of industries having working capital utilisation of 2 crores or more during the year 1984-85. There were 37 groups in the year 1983-84. Of these groups of industries, 16 groups have less than 1% share of the total working capital. These industries are arranged in descending order of working capital employed.

Table 7 - Arrangement of industries according to working capital 1984-85

sl. no	Code	Name of industry	Working capital	Percentage to total
1	2	3	4	5
1.	400	General transmission of electric energy and its distribution	20600.68	37.80
2.	311	Manufacture of fertilisers and pesticides	4650.87	8.53
3.	304	Petroleum refineries	3701.30	6.79
4.	310	Manufacture of basic industrial organic and inorganic chemicals and gases	2535.98	4.65

(contd.)

1	2	3	4	5
5.	214	Cashewnut processing like drying, shelling	1924.29	3.53
6.	370	Ship building and repairing	1741.08	3.19
7.	364	Manufacture of radio and television, transmitting and receiving sets including transistor radio	1467.21	2.69
8.	357	Manufacture of machine tools, their parts and accessories	1389.79	2.55
9.	220	Distilling rectifying & blending of spirits	1339.97	2.46
10.	302	Manufacture of rubber products not elsewhere classified	1158.46	2.13
11.	231	Cotton spinning, weaving and finishing of cotton textiles	1121.87	2.06
12.	261	Manufacture of all types of threads, cordage, ropes etc.	1057.36	1.94
13.	212	Tea processing	1045.47	1.92
14.	314	Manufacture of perfumes, cosmetics, lotions, hair dressings	995.99	1.83
15.	380	Manufacture of medical, surgical and scientific equipments	930.74	1.71
16.	280	Manufacturing of pulp, paper and paper board	921.58	1.69
17.	270	Manufacture of veneer, plywood and their products	801.96	1.47
18.	384	Minting of coins	688.08	1.26
19.	320	Manufacture of structural clay products	514.19	0.94
20.	367	Manufacture of Electronic components and accessories	478.65	0.88
21.	336	Zinc manufacturing	361.29	0.67
22.	313	Manufacture of drugs and medicines	357.65	0.66
23.	285	Printing and publishing of periodicals books and journals	354.22	0.65
24.	341	Manufacture of structural metal products	340.11	0.62
25.	211	Manufacture of other edible oils	296.70	0.55
26.	268	Manufacture of coir & coir products	293.79	0.54
27.	235	Weaving and finishing of cotton textiles in handlooms	280.64	0.51
28.	271	Sawing and planing of wood other than plywood	267.85	0.49
29.	380	Manufacture of medical, surgical and scientific equipments	264.87	0.49

(contd.)

1	2	3	4	5
30.	350	Manufacture of agricultural machinery and parts	262.06	0.48
31	329	Manufacture of miscellaneous non-metal mineral products	261.31	0.48
32.	217	Manufacture of starch	256.25	0.47
33.	226	Manufacture of beedi	204.90	0.38
34.	366	Manufacture of electronic computer and other equipments	202.19	0.37
		Other industries	1428.23	2.62
		All industries	54497.58	100.00

3.4 Productive capital

The total productive capital utilised by the factory sector during the year 1984-85 is estimated Rs.1814 crores as against Rs.1721 crores in the previous year. A productive capital investment of Rs 3 crores and above was made in 46 groups of industries during 1984-85. Generation and transmission of electric energy, petroleum refineries, manufacture of pulp and paper board, manufacture of fertilisers and pesticides shares 63.13% of the total productive capital investment. There are 13 groups of industries with more than 1% share each in productive capital investment. The industries with productive capital investment of Rs.3 crores and above are arranged in descending order in table 8.

Table 8 - Arrangement of industries according to productive capital 1984-85

sl. no	Code	Name of industry	Productive capital	Percentage to total
1	2	3	4	5
1.	400	General transmission of electric energy and its distribution	68399.18	37.71
2.	304	Petroleum refineries	20732.28	11.43
3.	280	Manufacturing of pulp, paper & paper board	13568.92	7.48

(contd.)

1	2	3	4	5
4.	311	Manufacture of fertilisers & pesticides	11799.10	6.51
5.	370	Ship building and repairing	10541.10	5.81
6.	231	Cotton spinning, weaving and finishing of cotton textiles	5279.32	2.91
7.	310	Manufacture of basic industrial organic and inorganic chemicals and gases	4834.50	2.66
8.	357	Manufacture of machine tools, their parts and accessories	2482.72	1.37
9.	302.	Manufacture of rubber products not elsewhere classified	2322.30	1.28
10.	214	Cashewnut processing, like drying, shelling	2190.12	1.21
11.	212	Tea processing	1992.38	1.10
12.	364	Manufacture of radio and television, transmitting and receiving sets including transistor radio	1887.39	1.04
13.	319	Manufacture of chemical products not elsewhere classified	1858.60	1.02
14.	367	Manufacture of electronic components and accessories	1818.43	1.00
15.	300	Tyre and tube industries	1803.01	0.99
16.	270	Manufacture of veneer, plywood and their products	1760.31	0.97
17.	220	Distilling rectifying & blending of spirits	1739.41	0.96
18.	314	Manufacture of perfumes, cosmetics, lotions, hair dressings	1640.25	0.90
19.	380	Manufacture of medical, surgical and scientific equipments	1445.85	0.80
20.	284	Printing and publishing of newspapers	1330.85	0.74
21.	261	Manufacture of all types of threads, cordage, ropes etc.	1295.32	0.71
22.	320	Manufacture of structural clay products	1261.85	0.70

(contd.)

1	2	3	4	5
23.	330	Iron and steel industries	1247.83	0.69
24.	366	Manufacture of electronic computer and other equipments	925.61	0.51
25.	285	Printing and publishing of periodicals books and journals	920.96	0.51
26.	331	Foundries for casting and forging iron and steel	758.08	0.42
27.	361	Manufacture of insulated wires and cables	738.84	0.41
28.	313	Manufacture of drugs and medicines	687.05	0.38
29.	336	Zinc manufacturing	680.53	0.37
30.	268	Manufacture of coir and coir products	661.76	0.36
31.	329	Manufacture of miscellaneous non-metal mineral products	633.92	0.35
32.	341	Manufacture of structural metal products	628.83	0.35
33.	203	Canning, preserving & processing of fish	609.88	0.34
34.	973	Repair of motor vehicles and motor cycles	570.72	0.31
35.	271	Sawing and planing of wood other than plywood	570.38	0.31
36.	211	Manufacture of other edible oils	508.57	0.28
37.	375	Manufacture of motor-cycles and scooters and parts	483.25	0.27
38.	235	Weaving and finishing of cotton textiles in handlooms	472.45	0.26
39.	350	Manufacture of agricultural machinery and parts	470.33	0.26
40.	362	Manufacture of dry and wet batteries	433.79	0.24
41.	217	Manufacture of starch	425.98	0.23
42.	335	Aluminium manufacturing	378.34	0.21
43.	343	Manufacture of hand tools & general hardware	372.55	0.21
44.	247	Spinning, weaving and finishing of synthetic fibres, rayons etc.	357.80	0.20
45.	340	Manufacture of fabricated metal products	309.63	0.17
46.	324	Manufacture of cement, lime and plaster	303.66	0.17
		Other industries	5250.71	2.89
		All industries	181384.64	100.00

3.5 Invested capital

Invested capital is the sum of fixed capital and physical working capital.

The total invested capital in the factory sector is estimated as Rs.1913 crores during the year 1984-85 as against Rs.1777 crores in the previous year. The invested capital is highest in generation and transmission of Electric Energy with 29.23% of the total invested capital. The invested capital in Generation and Transmission of Electric energy, petroleum refineries, ship building and repairing, manufacture of pulp paper and paper boards, and manufacture of fertilisers and pesticides formed 64.03% of the total invested capital. There are 16 groups of industries with more than 1% share in invested capital in each of them.

There are 50 groups of industries with invested capital of Rs.3 crores and above. These industries are arranged in descending order of magnitude of invested capital in the table.

Table 9 - Arrangement of industries according to invested capital 1984-85

sl. no.	Code	Name of industry	Invested capital	Percentage to total
1	2	3	4	5
1.	400	General transmission of electric energy and its distribution	55915.13	29.23
2.	304	Petroleum refineries	22772.21	11.91
3.	370	Ship building and repairing	15148.80	7.92
4.	280	Manufacturing of pulp, paper and paper boards	14773.81	7.72
5.	311	Manufacture of fertilisers & pesticides	13863.02	7.25
6.	231	Cotton spinning, weaving and finishing of cotton textiles	6910.81	3.61
7.	310	Manufacture of basic industrial organic & inorganic chemicals and gases	4138.48	2.16
8.	300	Tyre and tube industries	3510.88	1.84
9.	214	Cashewnut processing like drying, shelling	3424.07	1.79
10.	357	Manufacture of machine tools, their parts and accessories	3027.77	1.58
11.	302	Manufacture of rubber products not elsewhere classified	2401.72	1.26

(contd.)

1	2	3	4	5
12	360	Manufacture of electrical industrial machinery and apparatus and parts	2361.77	1.23
13.	319	Manufacture of chemical products not elsewhere classified	2301.09	1.20
14.	212	Tea processing	2180.31	1.14
15.	314	Manufacture of perfumes, cosmetics, lotions, hair dressing	1979.75	1.04
16.	367	Manufacture of electronic components & accessories	1935.79	1.01
17.	270	Manufacture of veneer, plywood and their products	1921.38	1.00
18.	361	Manufacture of insulated wires & cables	1862.78	0.97
19.	336	Zinc manufacturing	1580.36	0.83
20.	330	Iron and steel industries	1553.20	0.81
21.	366	Manufacture of electronic components, computer and other equipments	1344.95	0.70
22.	364	Manufacture of radio and television transmitting and receiving sets including transistor radio	1318.15	0.69
23.	320	Manufacture of structural clay products	1314.53	0.69
24.	261	Manufacture of all types of threads, cordage ropes etc.	1297.10	0.68
25.	203	Canning, preserving & processing of fish	1182.53	0.62
26.	380	Manufacture of medical, surgical and scientific equipments	1149.10	0.60
27.	331	Foundries for casting and forging iron and steel	1136.08	0.59
28.	211	Manufacture of other edible oils	1116.56	0.58
29.	284	Printing & publishing of newspapers	994.12	0.52
30.	220	Distilling rectifying and blending of spirits	929.67	0.49
31.	335	Aluminium manufacturing	866.24	0.45
32.	285	Printing & publishing of periodicals books and journals	783.77	0.41
33.	313	Manufacture of drugs and medicines	759.21	0.40

(contd.)

1	2	3	4	5
34.	268	Manufacture of coir and coir products	753.35	0.39
35.	341	Manufacture of structural metal products	672.77	0.35
36.	329	Manufacture of miscellaneous non-metal mineral products	656.04	0.35
37.	226	Manufacture of beedi	648.85	0.34
38.	235	Weaving and finishing of cotton textiles in handlooms	581.26	0.30
39.	350	Manufacture of agricultural machinery and parts	576.01	0.30
40.	340	Manufacture of fabricated metal products	557.00	0.30
41.	973	Repair of motor vehicles and motor cycles	547.41	0.29
42.	375	Manufacture of motor cycles & scooters and parts	539.36	0.28
43.	362	Manufacture of dry and wet batteries	524.38	0.27
44.	271	Sawing and planing of wood other than plywood	494.36	0.26
45.	247	Spinning, weaving and finishing of synthetic fibres, rayons etc.	468.34	0.24
46.	343	Manufacture of hand tools and general hardware	413.31	0.22
47.	363	Manufacture of electrical apparatus, appliances and other parts	380.88	0.20
48.	217	Manufacture of starch	379.25	0.20
49.	324	Manufacture of cement, lime and plaster	316.68	0.18
50.	204	Grain mill products	306.90	0.16
		Other industries	4692.14	2.45
		All industries	191263.51	100.00

3.6 Outstanding loan

The total amount of loans outstanding against the factories covered in the survey at the end of March 1985 is Rs.1540 crores. In the previous year it was about Rs.1482 crores. Outstanding loans are more than the

fixed capital. The loan amount constitutes 121.43% of the fixed capital and 84.95% of productive capital. About 77.38% of the loan amount is outstanding against 8 industries. Generation and transmission of electric energy, petroleum refineries, manufacture of electrical industrial machinery and apparatus, ship building and repairing, cotton spinning, weaving and finishing of cotton textiles, tyre and tube industries, cashewnut processing, manufacture of basic industrial organic and inorganic chemicals and gases. The highest amount of loan outstanding is against generation and transmission of Electric energy. This industry has a loan amount of Rs.507 crores which is 32.89% of the total outstanding loan in the factory sector and 106.07% of the fixed capital and 74.08% of the productive capital of the industry. There are 45 groups of industries with outstanding loan of Rs.2 crores and more during 1984-85. These industries are arranged in descending order of magnitude of loan amount in the table below.

Table 10 - Arrangement of industries according to outstanding loan 1984-85

sl. no.	Code	Name of industry	Outstand- ing loan	Percentage to total
1	2	3	4	5
1.	400	General transmission of electric energy and its distribution	50670.10	32.89
2.	304	Petroleum refineries	20231.26	13.13
3.	360	Manufacture of electrical, industrial machinery and apparatus and parts	19984.89	12.97
4.	370	Ship building and repairing	10133.13	6.58
5.	231	Cotton spinning, weaving and finishing of cotton textiles	5487.38	3.56
6.	300	Tyre and tube industries	5184.14	3.36
7.	214	Cashewnut processing like drying, shelling	5168.96	3.35
8.	310	Manufacture of basic industrial organic and inorganic chemicals and gases	2288.78	1.49
9.	314	Manufacture of perfumes, cosmetics, lotions, hair dressing	2156.28	1.40
10.	367	Manufacture of electronic components and accessories	1951.09	1.27
11.	361	Manufacture of insulated wires and cables	1910.52	1.24

(contd.)

1	2	3	4	5
12.	380	Manufacture of medical, surgical and scientific equipments	1747.91	1.13
13.	357	Manufacture of machine tools, their parts and accessories	1662.84	1.08
14.	319	Manufacture of chemical products not elsewhere classified	1623.53	1.05
15.	330	Iron and steel industries	1460.07	0.95
16.	331	Foundries for casting and forging iron and steel	1291.22	0.84
17.	270	Manufacture of veneer, plywood and their products	1173.80	0.76
18.	302	Manufacture of rubber products not elsewhere classified	1125.12	0.73
19.	280	Manufacturing of pulp, paper & paper board	1074.39	0.70
20.	284	Printing & publishing of newspapers	1055.41	0.68
21.	203	Canning, preserving & processing of fish	1049.01	0.68
22.	366	Manufacture of electronic computer & other equipments	919.97	0.60
23.	323	Manufacture of Chinaware and porcelainware	845.24	0.55
24.	363	Manufacture of electrical apparatus, appliances and other parts	819.45	0.53
25.	364	Manufacture of radio and television, transmitting and receiving sets including transistor radio	815.59	0.53
26.	341	Manufacture of structural metal products	755.93	0.49
27.	313	Manufacture of drugs and medicines	705.52	0.46
28.	320	Manufacture of structural clay products	696.17	0.45
28.	350	Manufacture of agricultural machinery and parts	693.20	0.45
29.	268	Manufacture of coir and coir products	680.76	0.44
31.	343	Manufacture of hand tools and general hardware	648.23	0.42
32.	340	Manufacture of fabricated metal products	634.88	0.41
33.	311	Manufacture of fertilisers and pesticides	608.40	0.39
34.	217	Manufacture of starch	534.69	0.35
35.	220	Distilling rectifying and blending of spirits	501.46	0.33

(contd.)

1	2	3.	4	5
36.	235	Weaving and finishing of cotton textiles in handlooms	465.71	0.30
37.	211	Manufacture of other edible oils	380.40	0.25
38.	362	Manufacture of dry and wet batteries	353.38	0.23
39.	204	Grain mill products	334.90	0.22
40.	236	Weaving and finishing of cotton in powerlooms	301.20	0.20
41.	285	Printing and publishing of periodicals books and journals	299.61	0.19
42.	247	Spinning, weaving and finishing of synthetic fibres, rayons etc.	298.15	0.19
43.	375	Manufacture of motor-cycles and scooters and parts	278.16	0.18
44.	271	Sawing and planing of wood other than plywood	267.01	0.17
45.	321	Manufacture of glass and glass products	214.19	0.14
		Other industries	2599.13	1.69
		All industries	154081.16	100.00

3.7 Workers

The number of workers in the factory sector during the year is estimated as Rs.1.95 lakhs as against Rs.2.01 lakhs during the previous year. Of these about 30.12 per cent was engaged in the cashew processing unit. The number of workers in the cashew processing units during the year is 58641. But the number of workers employed in the cashew processing units is seen decreased in actual number and percentage to total workers in the factory sector when compared to the previous year. During the previous year the number of workers engaged in cashew processing units were 62207 and their percentage to total workers was 30.99. It is also seen that about 56.81 per cent of the workers in the factory sector are engaged in the traditional industries of cashewnut processing, beedi manufacturing, structural clay products, cotton spinning, weaving, shrinking of cotton textiles, sawing and planing of wood and tea processing. There are 26 groups of industries

having more than 1000 workers in each of them. Even out of these 26 groups 16 groups of industries have more than 1% share of the total number of workers in each. These industries are arranged in descending order of magnitude in table 11.

Table 11 - Arrangement of industries according to number of workers
1984-85

sl. no.	Code	Name of industry	No. of workers	Percentage to total
1	2	3	4	5
1.	214	Cashewnut processing like drying, shelling	58641	30.12
2.	226	Manufacture of beedi	16081	8.26
3.	400	General transmission of electric energy and its distribution	14872	7.64
4.	231	Cotton spinning, weaving and finishing of cotton textiles	12508	6.42
5.	320	Manufacture of structural clay products	10521	5.40
6.	271	Sawing and planing of wood other than plywood	7850	4.03
7.	973	Repair of motor vehicles & motor cycles	5106	2.62
8.	212	Tea processing	5028	2.58
9.	311	Manufacture of fertilisers & pesticides	4094	2.10
10.	235.	Weaving & finishing of cotton textiles in handlooms	4004	2.06
11.	302	Manufacture of rubber products not elsewhere classified	3869	1.99
12.	310	Manufacture of basic industrial organic and inorganic chemicals and gases	3344	1.72
13.	270	Manufacture of veneer, plywood and their products	2867	1.47
14.	285	Printing and publishing of periodicals books and journals	2645	1.36
15.	261	Manufacture of all types of threads, cordage ropes etc.	2024	1.04
16.	268	Manufacture of coir and coir products	1977	1.02
17.	358	Manufacture of office computing and accounting machinery	1828	0.94
18.	360	Manufacture of electrical industrial machinery and apparatus and parts	1816	0.93

(contd.)

1.	2	3	4	5
19.	313	Manufacture of drugs and medicines	1643	0.84
20.	314	Manufacture of perfumes, cosmetics, lotions, hair dressings	1601	0.82
21.	203	Canning, preserving & processing of fish	1509	0.78
22.	300	Tyre and tube industries	1479	0.76
23.	370	Ship building and repairing	1438	0.74
24.	384	Minting of coins	1242	0.64
25.	979	Repair of enterprises not elsewhere classified	1217	0.63
26.	280	Manufacturing of pulp, paper and paper board	1093	0.56
		Other industries	24398	12.53
		All industries	194695	100.00

3.8 Employment

The total employment provided by the factory sector during 1984-85 is Rs.2.50 lakhs as against 2.40 lakhs in 1983-84. The number of employees is highest in the cashew processing industry. But compared to the previous year a decrease in the number of employees and their percentage to total employment were noticed in this industry. During the year the employment in the cashew industry is 65638 which is 26.15% of the total employment. It was 67397 during the year 1983-84 and its percentage to total employees was 27.99%. Kerala State Electricity Board is the single largest employer in the State. It engaged about 9.58% of the total employees' in the factory sector. There are 35 groups of industries with 1000 or more of the employees during the year. They are arranged in descending order of magnitude in table 12 below.

Table 12 - Arrangement of industries according to number of employees
1984-85

sl. no.	Code	Name of industry	No. of employees	Percentage to total
1	2	3	4	5
1	214	Cashewnut processing like drying, shelling	65638	26.15
2.	400	General transmission of electric energy and its distribution	24052	9.58
3.	226	Manufacture of beedi	16931	6.77
4.	231	Cotton spinning, weaving and finishing of cotton textiles	13850	5.52
5.	320	Manufacture of structural clay products	11828	4.71
6.	340	Manufacture of fabricated metal products	10922	4.35
7.	271	Sawing and planing of wood other than plywood	9201	3.67
8.	973	Repair of motor vehicles & motor cycles	5917	2.36
9.	311	Manufacture of fertilisers & pesticides	5801	2.31
10.	212	Tea processing	5530	2.20
11.	302	Manufacture of rubber products not elsewhere classified	4798	1.90
12.	310	Manufacture of basic industrial organic & inorganic chemicals and gases	4709	1.88
13.	235	Weaving and finishing of cotton textiles in handlooms	4604	1.83
14.	270	Manufacture of veneer, plywood and their products	3670	1.46
15.	285	Printing and publishing of periodicals, books and journals	3285	1.31
16.	357	Manufacture of machine tools, their parts and accessories	3158	1.26
17.	370	Ship building and repairing	2620	1.04
18.	360	Manufacture of electrical industrial machinery and apparatus and parts	2583	1.03
19.	268	Manufacture of coir and coir products	2506	1.00
20.	203	Canning, preserving and processing of fish	2404	0.96
21.	284	Printing and publishing of newspapers	2395	0.95
22.	261	Manufacture of all types of threads, cordage, ropes etc.	2387	0.95

(contd.)

1	2	3	4	5
23.	300	Tyre and tube industries	2282	0.91
24.	313	Manufacture of drugs and medicines	2269	0.90
25.	314	Manufacture of perfumes, cosmetics, lotions, hair dressings	2045	0.81
26.	280	Manufacturing of pulp, paper and paper board	1674	0.67
27.	979	Repair of enterprises not elsewhere classified	1421	0.57
28.	380	Manufacture of medical, surgical and scientific equipments	1278	0.51
29.	330	Iron and steel industries	1268	0.51
30.	343.	Manufacture of handtools and general hardware	1252	0.50
31.	374	Manufacture of motor vehicles & parts	1129	0.45
32.	341	Manufacture of structural metal products	1123	0.45
33.	367	Manufacture of electronic components and accessories	1119	0.45
34.	335.	Aluminium manufacturing	1110	0.44
35.	364	Manufacture of radio and television, transmitting and receiving sets including transistor radio	1109	0.44
		Other industries	23095	9.20
		All industries	250963	100.00

3.9 Wages to workers

The amount paid to workers in the factory sector during 1984-85 is Rs.157 crores as against Rs.156 crores during the previous year. The workers have decreased by 3.02 per cent but the wages paid have increased by 0.50 per cent which shows an improvement in the rate of wages paid to workers in the factory sector. The wages paid was the highest in the generation and transmission of electric energy with Rs.23.51 crores, followed by cotton, spinning weaving, shrinking, finishing of cotton textiles with Rs.15.96 crores. There are 32 groups of industries with annual wage bill

of Rs.1 crore or more during the year. It may be seen that though the cashewnut processing workers formed 30.12 per cent of the total workers their share in the total wage bill of the sector was only 5.56 per cent. At the same time the workers in the generation and transmission of electric energy who formed only 7.64 per cent of the total workers got a share of 14.98 per cent of the total wages paid in the sector. 20 groups of industries paid Rs.2 crores or more to its workers as wages. There are 32 groups of industries that have paid Rs.1 crores or more as wages to their workers as against 28 groups in the previous year. These industries are arranged in descending order of magnitude in table 13 below.

Table 13 - Arrangement of industries according to wages to workers

1984-85

sl. no.	Code	Name of Industry	Wages of workers Rs.in lakhs	Percentage to total
1	2	3	4	5
1	400	General transmission of electric energy and its distribution	2351.20	14.98
2.	231	Cotton spinning, weaving and finishing of cotton textiles	1596.53	10.17
3.	311	Manufacture of fertilisers & pesticides	1058.68	6.75
4.	214	Cashewnut processing like drying, shelling	872.59	5.56
5.	320	Manufacture of structural clay products	783.88	4.99
6.	973	Repair of motor vehicles & motor cycles	725.33	4.62
7.	226	Manufacture of beedi	686.55	4.37
8.	310	Manufacture of basic industrial organic & inorganic chemicals and gases	664.54	4.23
9.	357	Manufacture of machine tools, their parts and accessories	363.75	2.32
10.	302	Manufacture of rubber products not elsewhere classified	340.42	2.17
11.	285	Printing and publishing of periodicals, books and journals	339.60	2.16
12.	314	Manufacture of perfumes, cosmetics, lotions, hair dressings	270.39	1.72

(contd.)

1	2	3	4	5
13.	212	Tea processing	269.86	1.72
14.	261	Manufacture of all types of threads, cordage, ropes etc.	256.51	1.63
15.	335	Aluminium manufacturing	249.43	1.59
16.	360	Manufacture of electrical industrial machinery and apparatus and parts	245.63	1.56
17.	271	Sawing and planing of wood other than plywood	244.46	1.56
18.	270	Manufacture of venner, plywood and their products	244.18	1.56
19.	370	Ship building and repairing	214.46	1.37
20.	300	Tyre and tube industries	206.26	1.31
21.	235	Weaving and finishing of cotton textiles in handlooms	199.83	1.27
22.	284	Printing and publishing of newspapers	195.94	1.25
23.	374	Manufacture of motor vehicles and parts	192.28	1.23
24.	979	Repair of enterprises not elsewhere classified	175.11	1.12
25.	280	Manufacturing of pulp, paper and paper board	160.99	1.03
26.	313	Manufacture of drugs and medicines	155.46	0.99
27.	380	Manufacture of medical, surgical and scientific equipments	133.17	0.85
28.	330	Iron and steel industries	131.18	0.84
29.	268	Manufacture of coir and coir products	124.07	0.79
30.	341	Manufacture of structural metal products	112.68	0.72
31.	361	Manufacture of insulated wires and cables	101.01	0.64
32.	364	Manufacture of radio and television, transmitting and receiving sets including transistor radio	100.24	0.64
		Other industries	1929.51	12.29
		All industries	15695.72	100.00

3.10 Emoluments

The total emoluments constitute wages salaries, bonus and imputed value of benefits in kind. The total emoluments paid by the factory sector during the year 1984-85 is estimated as Rs 256 crores as against Rs.222 crores in the previous year. The highest amount of emoluments paid to employees is in the industries of generation and transmission of electric energy. It paid Rs.40 crores as emoluments which formed 15.75% of the total emoluments paid in the sector. It is followed by cotton spinning and weaving in mills with 19.73 crores. The third and fourth places were occupied by manufacture of fertilisers and pesticides and cashewnut processing. There are 47 groups of industries with total emoluments of Rs.1 crore or more in the year as against 42 groups in the previous year. They are arranged in descending order of magnitude of amount paid in table 14 below.

Table 14 - Arrangement of industries according to total emoluments
1984-85

sl. no.	Code	Name of industry	Total emoluments Rs.in lakhs	Percentage to total
1	2	3	4	5
1.	400	General transmission of electric energy and its distribution	4038.71	15.75
2.	231.	Cotton spinning, weaving and finishing of cotton textiles	1973.57	7.69
3.	311	Manufacture of fertilisers & pesticides	1639.95	6.39
4.	214	Cashewnut processing like drying, shelling	1320.76	5.15
5.	310	Manufacture of basic industrial organic & inorganic chemicals and gases	1153.26	4.50
6.	320	Manufacture of structural clay products	1055.30	4.11
7.	973	Repair of motor vehicles and motor cycles	1020.29	3.98
8.	226.	Manufacture of beedi	841.51	3.28
9.	357	Manufacture of machine tools, their parts and accessories	764.51	2.98
10.	360	Manufacture of electrical industrial machinery and apparatus and parts	734.69	2.86
11.	370	Ship building and repairing	562.75	2.19
12.	302	Manufacture of rubber products not elsewhere classified	558.31	2.18

(contd.)

1	2	3	4	5
13.	284	Printing and publishing of newspaper	472.96	1.84
14.	285	Printing and publishing of periodicals, books and journals	469.93	1.83
15.	314	Manufacture of perfumes, cosmetics, lotions, hair dressings	423.19	1.66
16.	300	Tyre and tube industries	412.47	1.61
17.	270	Manufacture of veneer, plywood and their products	392.22	1.53
18.	212	Tea processing	391.59	1.53
19.	335	Aluminium manufacturing	382.84	1.49
20.	261	Manufacture of all types of threads, cordage, ropes etc.	372.28	1.45
21.	280	Manufacturing of pulp, paper and paper board	337.20	1.31
22.	271	Sawing and planing of wood other than plywood	320.17	1.25
23.	235	Weaving and finishing of cotton textiles in handlooms	292.34	1.15
24.	313	Manufacture of drugs and medicines	290.73	1.13
25.	380	Manufacture of medical, surgical and scientific equipments	270.92	1.06
26.	330	Iron and steel industries	253.89	1.00
27.	374	Manufacture of motor vehicles and parts	234.68	0.91
28.	979.	Repair of enterprises not elsewhere classified	229.43	0.89
29.	343	Manufacture of handtools and general hardware	221.77	0.86
30.	364	Manufacture of radio and television, transmitting and receiving sets including transistor radio	210.36	0.82
31.	268	Manufacture of coir and coir products	201.39	0.79
32.	361	Manufacture of insulated wires & cables	200.65	0.78
33.	367	Manufacture of electronic components and accessories	182.25	0.71
34.	341	Manufacture of structural metal products	175.64	0.68
35.	203	Canning, preserving and processing of fish	174.52	0.68

(contd.)

1	2	3	4	5
36.	220	Distilling rectifying and blending of spirit	174.14	0.68
37.	304	Petroleum refineries	173.84	0.68
38.	363	Manufacture of Electrical apparatus, appliances and other parts	151.07	0.60
39.	331	Foundries for casting and forging iron & steel	148.03	0.58
40.	366	Manufacture of electronic computer and other equipments	132.72	0.52
41.	324	Manufacture of cement, lime and plaster	116.65	0.45
42.	336	Zinc manufacturing	114.12	0.44
43.	350	Manufacture of agricultural machinery and parts	112.28	0.44
44.	340	Manufacture of fabricated metal products	104.92	0.41
45.	247	Spinning, weaving and finishing of synthetic fibres, rayons etc.	103.65	0.40
46.	362	Manufacture of dry and wet batteries	103.41	0.40
47.	201	Manufacturing of diary products	102.54	0.40
		Other industries	1535.12	5.98
		All industries	25649.52	100.00

3.11 Input

All manufacturing costs of the factory are included in the total input. The total inputs consumed by the manufacturing sector during the year 1984-85 is estimated as Rs.1761 crores as against Rs.1744 crores during the previous year. Out of this, 84.52 per cent was cost of materials, 6.76 per cent cost of fuels and the remaining 8.72 per cent cost of other items of input 48 groups of industries with a consumption of inputs worth Rs.5 crores or more which are arranged in descending order of value of inputs is given in table 15 below.

Table 15 - Arrangement of industries according to total input 1984-85

sl.	Code	Name of industry	Total input Rs.in lakhs	Percentage to total
1	2	3	4	5
1.	311	Manufacture of fertilisers & pesticides	22320.52	12.68
2.	304	Petroleum refineries	16453.53	9.34
3.	212	Tea processing	11214.37	6.37
4.	302	Manufacture of rubber products not elsewhere classified	11079.25	6.29
5.	214	Cashewnut processing like drying, shelling	10909.60	6.20
6.	211	Manufacture of other edible oils	8700.32	4.94
7.	231	Cotton spinning, weaving and finishing of cotton textiles	6891.30	3.91
8.	203	Canning, preserving and processing of fish	6836.55	3.88
9.	314	Manufacture of perfumes, cosmetics, lotions, hair dressings	5567.28	3.16
10.	300	Tyre and tube industries	5402.67	3.07
11.	310	Manufacture of basic industrial organic and inorganic chemicals and gases	4996.39	2.84
12.	280	Manufacturing of pulp, paper and paper board	3996.39	2.27
13.	219	Manufacture of food products not elsewhere classified	3878.53	2.20
14.	284	Printing and publishing of newspapers	3320.05	1.89
15.	335	Aluminium manufacturing	2694.32	1.53
16.	226	Manufacture of beedi	2657.07	1.51
17.	330	Iron and steel industries	2417.58	1.37
18.	268	Manufacture of coir and coir products	2360.86	1.34
19.	400	General transmission of electric energy and its distribution	2249.34	1.28
20.	370	Ship building and repairing	2178.26	1.24
21.	360	Manufacture of electrical industrial machinery and apparatus and parts	2137.17	1.21
22.	361	Manufacture of insulated wires and cables	1800.68	1.02
23.	319	Manufacture of chemical products not elsewhere classified	1787.37	1.01
24.	270	Manufacture of veneer, plywood and their products	1777.95	1.01

(contd.)

1	2	3	4	5
25.	271	Sawing and planing of wood other than plywood	1661.80	0.94
26.	235.	Weaving and finishing of cotton textiles in handlooms	1521.88	0.86
27.	201	Manufacturing of diary products	1508.52	0.86
28.	357	Manufacture of machine tools, their parts and accessories	1471.04	0.84
29.	313	Manufacture of drugs and medicines	1440.48	0.82
30.	261	Manufacture of all types of threads, cordage, ropes etc.	1373.99	0.78
31.	204	Grain mill products	1372.34	0.78
32.	320	Manufacture of structural clay products	1185.03	0.67
33.	331	Foundries for casting and forging iron and steel	1106.70	0.63
34.	336	Zinc manufacturing	1051.16	0.60
35.	380	Manufacture of medical, surgical and scientific equipments	1040.11	0.59
36.	220	Distilling rectifying and blending of spirits	1037.14	0.59
37.	362	Manufacture of dry and wet batteries	991.50	0.56
38.	216	Manufacture of prepared animal feeds	950.01	0.54
39.	364	Manufacture of radio and television, transmitting and receiving sets including transistor radio	865.96	0.49
40.	366	Manufacture of electronic computer and other equipments	847.72	0.48
41.	217	Manufacture of starch	805.45	0.46
42.	341	Manufacture of structural metal products	800.45	0.45
43.	367	Manufacture of electronic components and accessories	661.03	0.38
44.	340	Manufacture of fabricated metal products	652.39	0.37
45.	343	Manufacture of hand tools and general hardware	645.78	0.37
46.	350	Manufacture of agricultural machinery and parts	631.08	0.36
47.	326	Manufacture of structural stone goods, stone ware, stone dressing & crushing	604.75	0.34

(contd.)

1	2	3	4	5
48.	247	Spinning, weaving and finishing of synthetic fibres, rayons etc.	538.24	0.31
		Other industries	7692.88	4.37
		All industries	176084.78	100.00

3.12 Out put

The gross value of goods and services produced in the factory sector during the year 1984-85 is estimated as Rs.2417 crores as against Rs.2343 crores during the previous year. The value of output was highest in manufacture of fertilisers and pesticides with Rs.308 crores as against Rs.248 crores during the previous year. Its share was 12.76 per cent of the total output. Petroleum refineries produced 7.30% of the total output. Tea processing contributed 7.07 per cent as against 5.03 per cent during the previous year. Manufacture of rubber products contributed 5.73% of the total output as against 3.02% during the previous year. Generation and transmission of electric energy produced 5.53 per cent of the total output. The percentage of output in cashewnut processing was 5.20 per cent as against 4.57 per cent during the previous year. There are 55 groups with an output of Rs.5 crores or more during the year 1984-85. They are arranged in descending order in table 16 below.

Table 16 - Arrangement of industries according to output 1984-85

sl. no.	Code	Name of industry	Total output Rs.in lakhs	Percentage to total
1	2	3	4	5
1.	311	Manufacture of fertilisers & pesticides	30847.68	12.76
2.	304	Petroleum refineries	17635.50	7.30
3.	212	Tea processing	17084.36	7.07
4.	302	Manufacture of rubber products not elsewhere classified	13845.89	5.73
5.	400	General transmission of electric energy and its distribution	13365.59	5.53

(contd.)

1	2	3	4	5
6.	214	Cashewnut processing, like drying, shelling	12568.68	5.20
7.	211	Manufacture of other edible oils	11334.57	4.69
8.	231	Cotton spinning, weaving and finishing of cotton textiles	10234.93	4.23
9.	310	Manufacture of basic industrial organic and inorganic chemicals and gases	8040.58	3.33
10.	203	Canning, preserving and processing of fish	7635.44	3.16
11.	314	Manufacture of perfumes, cosmetics, lotions, hair dressings	6739.98	2.79
12.	300	Tyre and tube industries	6461.56	2.67
13.	280	Manufacturing of pulp, paper and paper board	6027.49	2.49
14.	219	Manufacture of food products not elsewhere classified	3939.24	1.63
15.	284	Printing and publishing of newspapers	3689.49	1.53
16.	226	Manufacture of beedi	3678.54	1.52
17.	370	Ship building and repairing	3598.20	1.49
18.	360	Manufacture of electrical industrial machinery and apparatus and parts	3209.96	1.33
19.	335	Aluminium manufacturing	2953.28	1.22
20.	357	Manufacture of machine tools, their parts and accessories	2880.77	1.19
21.	320	Manufacture of structural clay products	2688.63	1.11
22.	330	Iron and steel industries	2650.34	1.10
23.	268	Manufacture of coir and coir products	2601.59	1.08
24.	270	Manufacture of veneer, plywood and their products	2381.61	0.99
25.	261	Manufacture of all types of threads, cordage, ropes etc.	2294.36	0.95
26.	271	Sawing and planing of wood other than plywood	2150.53	0.88
27.	319	Manufacture of chemical products not elsewhere classified	2101.78	0.87
28.	313	Manufacture of drugs and medicines	2052.74	0.85
29.	235	Weaving and finishing of cotton textiles in handlooms	2028.44	0.84

(contd.)

1	2	3	4	5
30.	220	Distilling rectifying & blending of spirits	2003.36	0.83
31.	361	Manufacture of insulated wires and cables	1868.63	0.77
32.	201	Manufacturing of dairy products	1704.19	0.71
33.	380	Manufacture of medical, surgical and scientific equipments	1603.11	0.66
34.	366	Manufacture of electronic computer and other equipments	1501.87	0.62
35.	204	Grain mill products	1440.08	0.60
36.	336.	Zinc manufacturing	1417.66	0.59
37.	362	Manufacture of dry and wet batteries	1319.11	0.55
38.	331	Foundries for casting and forging iron and steel	1305.82	0.54
39.	973	Repair of motor vehicles & motor cycles	1162.88	0.48
40.	367	Manufacture of electronic components and accessories	1122.04	0.46
41.	216	Manufacture of prepared animal feeds	1118.07	0.46
42.	217	Manufacture of starch	1053.42	0.44
43.	364	Manufacture of radio and television, transmitting and receiving sets including transistor radio	1048.96	0.43
44.	341	Manufacture of structural metal products	967.97	0.40
45.	350	Manufacture of agricultural machinery and parts	902.62	0.37
46.	324	Manufacture of cement, lime and plaster	877.72	0.36
47.	343	Manufacture of handtools and general hardware	859.42	0.35
48.	247	Spinning, weaving and finishing of synthetic fibres, rayon etc.	778.04	0.32
49.	363	Manufacture of electrical apparatus, appliances and other parts	755.79	0.31
50.	340	Manufacture of fabricated metal products	747.98	0.31
51.	225	Tobacco stemming, redrying and all other operations which are connected with preparing raw leaf tobacco for manufacture	725.99	0.30

(contd.)

1	2	3	4	5
52.	329	Manufacture of miscellaneous non metal mineral products	690.11	0.29
53.	205	Manufacturing of bakery products	549.18	0.23
54.	236	Weaving and finishing of cotton textiles in powerlooms	534.65	0.22
55.	301	Manufacture of foot-wear made of moulded rubber, plastic	514.88	0.21
		Other industries	6422.96	2.66
		All industries	241718.26	100.00

3.13 Net value added

Net value added by manufacture or net output is the increment to the value of goods and services that is contributed by the factory and is obtained by deducting the total value of input as well as depreciation from the total value of output.

The value added by manufacture sector is estimated at Rs.568 crores in 1984-85 as against Rs.521 crores during the previous year. The highest contribution towards value added came from electricity undertaking with 17.14 per cent of the total value added as against 11.30 per cent during the previous year. Manufacture of fertilisers and pesticides occupied the second place with 13.20 per cent of the total value added. But the total value added by the tea processing industry increased from 7.41 per cent in 1983-84 to 10 per cent in 1984-85. There are 42 groups of industries with value added by manufacture for more than Rs.2 crores. They are arranged in descending order of value added in table 17 below.

Table 17 - Arrangement of industries according to value added

sl. no	Code	Name of industry	Value added Rs. in lakhs	Percentage to total
1	2	3	4	5
1.	400	General transmission of electric energy and its distribution	9738.86	17.14
2.	311	Manufacture of fertilisers & pesticides	7501.04	13.20
3.	212	Tea processing	5683.35	10.00
4.	231	Cotton spinning, weaving & finishing of cotton textiles	2797.81	4.92
5.	302	Manufacture of rubber products not elsewhere classified	2639.25	4.64
6.	211	Manufacture of other edible oils	2608.07	4.59
7.	310	Manufacture of basic industrial organic and inorganic chemicals and gases	2434.48	4.28
8.	214.	Cashewnut processing like drying, shelling	1631.67	2.87
9.	320	Manufacture of structural clay products	1431.32	2.53
10.	357	Manufacture of machine tools, their parts and accessories	1248.56	2.20
11.	314	Manufacture of perfumes, cosmetics, lotions, hair dressing	1093.56	1.92
12.	370	Ship building and repairing	1088.89	1.92
13.	226	Manufacture of beedi	1015.57	1.79
14.	220	Distilling rectifying and blending of spirits	924.31	1.63
15.	360	Manufacture of electrical industrial machinery and apparatus and parts	896.77	1.58
16.	261	Manufacture of all types of threads, cordage, ropes etc.	889.04	1.56
17.	280	Manufacturing of pulp, paper and paper board	771.00	1.36
18.	304	Petroleum refineries	745.11	1.31
19.	300	Tyre and tube industries	728.31	1.28
20.	973	Repair of motor vehicles and motor cycles	652.04	1.15
21.	203	Canning, preserving & processing of fish	646.76	1.14
22.	366	Manufacture of electronic computer and other equipments	591.89	1.04

(contd.)

1	2	3	4	5
23.	313	Manufacture of drugs and medicines	571.05	1.00
24.	380	Manufacture of medical, surgical and scientific equipments	512.22	0.90
25.	270	Manufacture of veneer, plywood and their products	508.40	0.89
26.	235	Weaving and finishing of cotton textiles in handlooms	488.16	0.87
27.	271	Sawing and planing of wood other than plywood	462.86	0.81
28.	363.	Manufacture of electrical apparatus, appliances and other parts	398.24	0.70
29.	362	Manufacture of dry and wet batteries	298.66	0.53
30.	367	Manufacture of electronic components and accessories	294.53	0.52
31.	336	Zinc manufacturing	281.53	0.50
32.	329	Manufacture of miscellaneous non-metal mineral products	258.57	0.45
33.	284	Printing and publishing of newspapers	244.80	0.43
34.	350	Manufacture of agricultural machinery and parts	243.98	0.43
35.	217	Manufacture of starch	230.70	0.41
36.	247	Spinning, weaving and finishing of synthetic fibres, rayons etc.	221.43	0.39
37.	335	Aluminium manufacturing	218.28	0.38
38.	324	Manufacture of cement, lime & plaster	218.13	0.38
39.	979	Repair of enterprises not elsewhere classified	215.56	0.38
40.	205	Manufacturing of bakery products	211.18	0.37
41.	319	Manufacture of chemical products not elsewhere classified	206.70	0.36
42.	268.	Manufacture of coir & coir products	201.11	0.35
		Other industries	2786.20	4.90
		All Industries	56829.95	100.00

3.14 Structural ratio of selected industries

The structural ratio of 42 industries have been worked out and presented in table 18. These industries are selected on the basis of their contribution towards value added by manufacture.

The table shows that fixed capital employ ratio was very high in petroleum refineries with Rs.30412459 and very low in cashew processing with only Rs.405. It may be noted that cashew processing industry provided nearly 26% of the employment in the factory sector. In beedi industry the fixed capital required to employ a person is only Rs.549/-

Productivity of labour measured by output per employee was lowest in cashew processing with Rs.19148 while it was the highest in petroleum refineries with Rs.31491972. The output per employee was less than the state average in highly capital intensive industries like electricity, manufacture of machine tools, manufacture of drugs and medicines etc. and in labour intensive industries like cashewnut processing, beedi manufacturing sawing and planing of wood, weaving and finishing of cotton textiles in handlooms and repair of motor vehicles.

The average annual earnings of an employee was lowest in cashew processing industry with Rs.2012 while it was highest in petroleum refineries with Rs.310434. The average annual earnings of an employee in tea processing, cashewnut processing, manufacture of structural clay products, manufacture of beedi, canning preserving and processing of fish, weaving and finishing of cotton textiles in handloom, sawing and planing of wood other than plywood, manufacture of coir and coir products were less than the state average. The average annual emoluments per employee are more than Rs.20000 in 13 industries.

The input output ratio is considered in 42 industries. This ratio is highest in petroleum refineries with 0.93 while it was very low in electricity undertakings with 0.17.

The amount of fixed capital required to produce output worth Rs.1/- was highest in electricity undertakings with Rs.3.58 as against Rs.2.45 in

ship building and repairing and Rs.2.10 in manufacture of pulp, paper and paper board, 0.03 paise for manufacture of beedi and 0.02 paise for cashew. This shows that while beedi and cashewnut industries are highly labour intensive electricity undertaking and ship building and repairing are highly capital intensive. Generation and transmission of electric energy, petroleum refineries, ship building and repairing, manufacture of pulp paper and paper board, manufacture of chemical products not elsewhere classified are important industries. Which require capital above state average to produce a unit of output.

The fixed capital required to generate value added worth Rs.1/- was very high in petroleum refineries and manufacture of pulp, paper and paper board including newsprint with Rs.22.86 and 16.40 respectively and Rs.2.23 for the factory sector as a whole. The amount was only 9 paise in beedi and 16 paise in cashewnut processing. The capital output co-efficient (ratio of fixed capital to value added) was more than 1 in generation and transmission of electric energy, cotton spinning, weaving, shrinking etc. of cotton textiles in mills, ship building and repairing, manufacture of electric industrial machinery and apparatus and parts, manufacture of pulp, paper and paper board including newsprint, petroleum refineries, tyre and tybe industries, canning preserving and processing of fish etc., manufacture of electronic computer and other equipments, manufacture of medical surgical and scientific equipments, manufacture of veneer, plywood and their products, manufacture of electronic components and accessories, zinc manufacturing, manufacture of miscellaneous non-metallic products, printing and publishing of news papers, spinning weaving and finishing of synthetic fibres rayons, aluminium

manufacturing, manufacture of chemical products not elsewhere classified and manufacture of coir and coir products.

The ratio of value added to output was highest in electricity undertakings with 0.73 and was lowest in petroleum refineries with 0.04 against state average of 0.24. The ratio was lower than the state average in manufacture of rubber products not elsewhere classified, manufacture of other edible oils and fats, cashewnut processing, manufacture of perfumes, cosmetics, etc., manufacture of pulp, paper and paper board; petroleum refineries, tyre and tube industries, canning, preserving and processing of fish and their products, manufacture of veneer plywood and their products, sawing and planing of wood other than plywood, manufacture dry and wet batteries, zinc manufacturing, printing and publishing of newspapers, manufacture of starch, aluminium manufacturing, manufacture of chemical products not elsewhere classified and manufacture of coir and coir products.

The ratio of emoluments to value added was highest in printing and publishing of newspapers with 1.93 as against 0.45 for the factory sector as a whole. The ratio was the lowest in manufacture of other edible oils and fats with 0.03.

Table 18 - Structural ratios in selected industries

sl. no.	Code	Description of industry	Fixed capital per em- ployee	Emolu- ments per em- ployee	Output per em- ployee	Value added per em- ployee	Input output ratio	Ratio of fixed capital to output	Ratio of fixed capital to value added	Ratio of value added to output	Ratio of emolu- ments to value added	Ratio of operating surplus to output	Ratio of operating surplus to product- ive capital
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	400	General transmission of electric energy and its distribution	198730	16792	55570	40491	0.17	3.58	4.90	0.73	0.41	0.43	0.08
2.	311	Manufacture of fertilisers and pesticides	123224	28270	531765	129306	0.72	0.23	0.95	0.24	0.22	0.19	0.50
3.	212	Tea processing	17123	7081	308940	102773	0.66	0.06	0.17	0.33	0.07	0.31	2.66
4.	231	Cotton spinning, weaving & finishing of cotton textiles	30018	14250	73898	20201	0.67	0.41	1.49	0.27	0.71	0.08	0.16
5.	302	Manufacture of rubber pro- ducts not elsewhere classified	24257	11636	288576	55007	0.80	0.08	0.44	0.19	0.21	0.15	0.90
6.	211	Manufacture of other edible oils and fats	21466	8417	1148386	264242	0.77	0.02	0.08	0.23	0.03	0.22	4.96
7.	310	Manufacture of basic indu- strial organic & inorganic chemicals and gases	48811	24491	170749	51698	0.62	0.29	0.94	0.30	0.47	0.16	0.27
8.	214	Cashewnut processing like drying, shelling	405	2012	19148	2486	0.87	0.02	0.16	0.13	0.81	0.02	0.14
9.	320	Manufacture of structural clay products	6321	8922	22731	12101	0.44	0.28	0.52	0.53	0.74	0.14	0.30

(contd.)

(Table 18 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
10. 357	Manufacture of machine tools, their parts & accessories	34608	24209	91221	39536	0.51	0.38	0.87	0.43	0.61	0.17	0.19		
11. 314	Manufacture of perfumes, cosmetics, lotions, hair dressings	31504	20694	329583	53475	0.83	0.10	0.59	0.16	0.39	0.10	0.41		
12. 370	Ship building & repairing	335879	21479	137336	41561	0.61	2.45	8.08	0.30	0.52	0.15	0.05		
13. 226	Manufacture of Beedi	549	4970	21727	5998	0.72	0.03	0.09	0.28	0.83	0.05	0.58		
14. 220	Distilling rectifying & blending of spirits	41137	17934	206319	95192	0.52	0.20	0.43	0.46	0.19	0.37	0.43		
15. 360	Manufacture of electrical industrial machinery & apparatus and parts	46401	28443	124273	34718	0.67	0.37	1.34	0.28	0.82	0.05	1.73		
16. 261	Manufacture of all types of threads, cordage, ropes etc.	9969	15596	96119	37245	0.60	0.10	0.27	0.39	0.42	0.23	0.40		
17. 280	Manufacturing of pulp, paper & paper board	755516	20143	36007	46058	0.66	2.10	16.40	0.13	0.44	0.07	0.03		
18. 304	Petroleum refineries	30412459	310434	31491972	1330570	0.93	0.97	22.86	0.04	0.23	0.03	0.03		
19. 300	Tyre and tube industries	75643	18075	283154	31915	0.84	0.27	2.37	0.11	0.57	0.05	0.18		
20. 973	Repair of motor vehicles and motor cycles	6955	17243	19653	11020	0.41	0.35	0.63	0.56	1.56	-0.32	-0.65		
21. 203	Canning, preserving & processing of fish	29148	7260	317614	26903	0.90	0.09	1.08	0.08	0.27	0.06	0.77		

(Table 18 contd.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
22.	366	Manufacture of electronic computer and other equipments	113388	20802	235403	92773	0.56	0.48	1.22	0.39	0.22	0.31	0.50
23.	313	Manufacture of drugs and medicines	14517	12813	90469	25168	0.70	0.16	0.58	0.28	0.51	0.14	0.41
24.	380	Manufacture of medical, surgical and scientific equipments	40306	21198	125439	40080	0.65	0.32	1.01	0.32	0.53	0.15	0.17
25.	270	Manufacture of veneer, plywood & their products	26113	10687	64894	13853	0.75	0.40	1.89	0.21	0.77	0.05	0.07
26.	235	Weaving and finishing of cotton textiles in handlooms	4166	6350	44058	10603	0.75	0.09	0.39	0.24	0.60	0.10	0.41
27.	271	Sawing and planing of wood other than plywood	3288	3480	23373	5031	0.77	0.14	0.65	0.22	0.69	0.07	0.25
28.	363	Manufacture of electrical apparatus, appliances and other parts	38170	24725	123697	65177	0.43	0.31	0.59	0.53	0.38	0.33	0.91
29.	362	Manufacture of dry and wet batteries	43990	16311	208061	47107	0.75	0.21	0.93	0.23	0.35	0.15	0.45
30.	367	Manufacture of electronic components & accessories	119730	16287	100272	26321	0.59	1.19	4.55	0.26	0.62	0.10	0.06
31.	336	Zinc manufacturing	69856	24972	310210	61604	0.74	0.23	1.13	0.20	0.41	0.12	0.25
32.	329	Manufacture of miscellaneous non-metal mineral products	53153	14085	98447	36886	0.56	0.54	1.44	0.37	0.38	0.23	0.25

(contd.)

(Table 18 contd.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
33.	284	Printing and publishing of newspapers	26838	19748	154050	10221	0.90	0.17	2.63	0.07	1.93	-0.06	-0.17
34.	350	Manufacture of agricultural machinery and parts	55244	29781	239423	64716	0.70	0.23	0.85	0.27	0.46	0.15	0.28
35.	217	Manufacture of starch	28767	10705	178546	39102	0.76	0.16	0.74	0.22	0.27	0.16	0.39
36.	247	Spinning, weaving and finishing of synthetic fibres, rayons etc.	44882	16454	123498	35147	0.69	0.36	1.28	0.28	0.47	0.15	0.33
37.	335	Aluminium manufacturing	38466	34490	266061	19665	0.91	0.14	1.96	0.07	1.75	-0.06	-0.43
38.	324	Manufacture of cement, lime and plaster	44261	30696	230979	57404	0.69	0.19	0.77	0.25	0.53	0.12	0.33
39.	979	Repair of enterprises not elsewhere classified	1886	16146	20883	15169	0.26	0.09	0.12	0.73	1.06	-0.05	-0.27
40.	205	Manufacturing of bakery products	22640	13707	186797	71831	0.60	0.12	0.32	0.38	0.19	0.31	1.62
41.	319	Manufacture of chemical pro- ducts not elsewhere classified	292347	10826	353836	34798	0.85	0.83	8.40	0.10	0.31	0.07	0.08
42.	268	Manufacture of coir and coir products	14684	8036	103814	8025	0.91	0.14	1.83	0.08	1.00

Chapter 4

RELATIVE IMPORTANCE OF DIFFERENT INDUSTRIES

The establishments covered in the Annual Survey of Industries 1984-85 have been classified into major industries groups of two digit level classification ranked according to their contribution to value added and presented in table No.19. The table shows that the highest amount of value added by manufacture was contributed by manufacture of chemical and chemical products (except petroleum and coal products) with Rs.118.28 crores and lowest by water works and supply with 0.30 crores. The first four places are occupied by (i) manufacture of chemical and chemical products except petroleum and coal products (20.81%), (ii) manufacture of food products (20.49%), (iii) Electricity (17.14%), (iv) manufacture of rubber plastic, petroleum and coal products (7.62%).

The above four industries together employed 50.69% of the total employees and contributed 66.74% of the total output and 67.65% of the total input. These four industries shared 66.06% of the total value added and 65.48% of the total fixed capital in the factory sector. It may be noted that manufacture of chemical and chemical products except products of petroleum and gas which occupied the first place alone accounted for 20.81% of value added, 6.46% of total employees 14% of emoluments and 20.67% of total output. Manufacture of food and food products accounted for 20.49% of value added but employed 31.65% of the total employees in the factory sector. The gross value of output produced by this group constituted 24.50% of the total output. Electricity occupying the third place accounted for 17.14% of value added and employed 9.58% of total employees in the factory sector and claimed 15.75% of total emoluments and 5.53% of total output originating from the industrial sector in the state. Manufacture of rubber, plastic, petroleum and coal products accounted for 7.62% of value added.

4.2 Some other important aggregates like fixed capital, working capital, outstanding loan, employment, gross output, input etc. are given in table 20 and their percentage in table 21.

4.3 The structural characteristics of each industry group are given in table 22. The industry groups are arranged in the descending order of magnitude of the total value added.

Table 19 - Ranking of Major Industry Groups

sl. no	Code	Name of industry	Value added (Rs.in crores)	Rank
1	2	3	4	5
1.	31	Manufacture of chemical and chemical products (except products of petroleum and coal)	118.28	1
2.	20&21	Manufacture of food products	116.42	2
3.	40	Electricity	97.39	3
4.	30.	Manufacture of rubber, plastic petroleum and coal products	43.31	4
5.	23	Manufacture of cotton textiles	33.16	5
6.	36	Manufacture of electrical machinery, apparatus, appliances and supplies and parts	26.67	6
7.	22	Manufacture of beverages, tobacco and tobacco products	22.31	7
8.	32	Manufacture of non-metallic mineral products	20.82	8
9.	35.	Manufacture of machinery, machine tools and parts	15.89	9
10.	28.	Manufacture of paper and paper products & printing & publishing & allied industries	13.70	10
11.	26.	Manufacture of textile products (including wearing apparel other than foot wear)	11.58	11
12.	27.	Manufacture of wood and wood products, furniture and fixtures	11.18	12
13.	97	Repair services	8.68	13
14.	33.	Basic metal and alloy industries	8.43	14
15.	37	Manufacture of transport equipments & parts	7.54	15
16.	38	Other manufacturing industries	5.61	16
17.	34	Manufacture of metal products and parts except machinery	4.42	17
18.	24	Manufacture of wool, silk and synthetic fibre textiles	2.21	18
19.	96	Laundry	0.40	19
20.	42	Water works and supply	0.30	20

Table 20 - Principal Characteristics for each Major Industry Group (Rs. in lakhs)

sl. no.	Code	Description	No. of units	4	5	6	7	8	9	No. of persons employed
1	2	3								10
1	31	Manufacture of chemicals and chemical products (except product of petroleum and coal)	126	12293.92	8780.00	21073.92	23223.39	7532.99		16212
2.	20-21	Manufacture of food products	557	2928.14	4189.87	7118.01	9702.58	8030.13		79424
3.	40	Electricity	7	47798.50	20600.68	68399.18	55915.13	50670.10		24052
4.	30	Manufacture of rubber, plastic, petroleum and coal products	172	20066.31	5096.90	25162.21	28992.95	26623.16		7537
5.	23	Manufacture of cotton textiles	150	4580.74	1396.29	5977.03	7772.68	6307.56		19065
6.	36	Manufacture of electrical machinery apparatus appliances and suppliers and parts	52	5549.52	695.78	6245.30	9890.53	26905.42		7834
7.	22	Manufacture of beverages tobacco and tobacco products	346	754.86	1849.57	2604.43	2164.32	772.86		18467
8.	32	Manufacture of non metallic mineral products	300	1508.71	954.50	2463.21	2670.89	1834.75		14211
9.	35	Manufacture of machinery, machine tools and parts except electrical machinery	66	1391.58	1708.12	3099.70	3786.95	2520.75		4337
40.	28	Manufacture of paper and paper products and printing and publishing and allied industries	132	13992.64	2055.63	16048.27	16800.45	2603.87		8238

(Table 20 contd.)

	1	2	3	4	5	6	7	8	9	10
11. 26			Manufacture of textile products (including wearing apparel other than foot wear)	99	730.03	1538.34	2268.37	2355.66	893.76	5722
12. 27.			Manufacture of wood and wood products, furniture & fixtures	688	1366.23	1292.74	2658.97	2726.24	1573.05	14179
13. 97			Repair services	115	438.34	183.46	621.20	594.97	71.67	7338
14. 33.			Basic metal and alloys Industries	35	2446.65	618.13	3064.78	5135.97	2994.37	3655
15. 37			Manufacture of transport equipments and parts	21	9324.75	1811.15	11135.90	15813.61	10471.79	4290
16. 38			Other manufacturing industries	17	536.86	967.90	1504.76	1251.58	1790.83	1627
17. 34			Manufacture of metal products and parts (except machinery and transport equipment)	122	741.61	675.76	1417.37	1834.07	2185.44	13843
18. 24			Manufacture of wool silk & synthetic fibre textiles	1	282.76	75.04	357.80	468.34	298.15	630
19. 96			Laundry	3	13.52	1.06	14.58	14.16	0.51	57
20. 42			Water works & supply	5	142.39	6.66	149.05	149.04	-	245
			All industries	3014	126887.06	54497.58	181384.64	191263.51	154081.16	250963

(Table 20 contd.)

sl. no.	Description	Total Emoluments	Total input	Total output	Depreciation	Value added	Factor of payment	Net income
1	2	11	12	13	14	15	16	17
1	31	3592.94	36266.01	49972.68	1878.29	11828.38	1409.14	10419.24
2.	20-21	2460.43	47079.26	59215.64	494.59	11641.79	1337.71	10304.08
3.	40	4038.71	2249.34	13365.59	1377.39	9738.86	12.22	9726.64
4.	30	1233.83	33517.68	38768.17	919.31	4331.18	1407.94	2923.24
5.	23	2307.12	8983.02	12884.55	585.46	3316.07	844.15	2471.92
6.	36	1739.04	7722.14	10951.92	562.38	2667.40	1405.56	1261.84
7.	22	1089.19	4396.98	6722.06	94.29	2230.79	114.32	2116.47
8.	32	1415.24	2545.73	4828.77	201.24	2081.80	197.12	1884.68
9.	35	952.88	2381.57	4167.75	197.44	1588.74	340.16	1248.58
10.	28	1375.74	8187.01	11010.32	1453.55	1369.76	1236.97	132.79

(contd.)

(Table 20 contd.)

Sl. no.	Code	Description	Total Emoluments	Total input	Total output	Depreciation	Value added	Factor of payment	Net income
1	2	3	11	12	13	14	15	16	17
11.	26	Manufacture of textile products (including wearing apparel other than foot wear)	623.23	4099.83	5348.21	90.11	1158.27	144.08	1014.19
12.	27.	Manufacture of wood and wood products, furniture & fixtures	827.82	3757.78	5008.29	132.46	1118.05	319.48	798.57
13.	97	Repair services	1249.72	550.87	1459.62	41.15	867.60	11.05	856.55
14.	33.	Basic metal and alloys Industries	898.88	7269.76	8327.10	214.48	842.86	252.64	590.22
15.	37	Manufacture of transport equipments and parts	844.23	2877.75	4015.63	384.07	753.81	1133.53	-379.72
16.	38	Other manufacturing industries	312.27	1135.99	1750.58	53.73	560.86	174.42	386.44
17.	34	Manufacture of metal products and parts (except machinery and transport equipment)	543.64	2344.74	2882.83	95.76	442.33	277.75	164.58
18.	24	Manufacture of wool silk & synthetic fibre textiles	103.65	538.24	778.04	18.37	221.43	43.79	175.64
19.	96	Laundry	10.09	13.61	55.08	1.77	39.70	0.28	39.42
20.	42	Water works & supply	30.87	167.47	205.43	7.69	30.27	..	30.27
All industries			25649.52	176084.78	241718.26	8803.53	56829.95	10664.31	46165.64

Table 21 - Principal Characteristics for each Major Industry Group (Percentage distribution)

sl. no.	Code	Description	No. of		Fixed		Working		Productive		Invested		Outstand-		No. of persons employed
			units	capital	capital	capital	capital	ing loan	capital	ing loan	capital	ing loan			
1	2	3	4	5	6	7	8	9	10						
1	31	Manufacture of chemicals and chemical products (except product of petroleum and coal)	4.18	9.69	16.11	11.62	12.14	4.89	6.46						
2.	20-21	Manufacture of food products	18.48	2.31	7.69	3.92	5.07	5.21	31.65						
3.	40	Electricity	0.23	37.67	37.80	37.71	29.23	32.89	9.58						
4.	30	Manufacture of rubber, plastic, petroleum and coal products	5.71	15.81	9.35	13.87	15.16	17.28	3.00						
5.	23	Manufacture of cotton textiles	4.98	3.61	2.56	3.29	4.06	4.09	7.60						
6.	36	Manufacture of electrical machinery apparatus appliances and suppliers and parts	1.73	4.37	1.28	3.44	5.17	17.46	3.12						
7.	22	Manufacture of beverages tobacco and tobacco products	11.48	0.59	3.39	1.44	1.13	0.50	7.36						
8.	32	Manufacture of non metallic mineral products	9.95	1.19	1.75	1.36	1.40	1.19	5.66						
9.	35	Manufacture of machinery, machine tools and parts except electrical machinery	2.19	1.10	3.13	1.71	1.98	1.64	1.73						
10.	28	Manufacture of paper and paper products and printing and publishing and allied industries	4.38	11.03	3.77	8.85	8.78	1.69	3.28						

(contd.)

(Table 21 contd.)

sl. no.	Code	Description	Total Emoluments	Total input	Total output	Depreciation	Value added	Factor of payment	Net income
1	2	3	11	12	13	14	15	16	17
1	31	Manufacture of chemicals and chemical products (except product of petroleum and coal)	14.01	20.60	20.67	21.33	20.81	13.20	22.57
2.	20-21	Manufacture of food products	9.59	26.74	24.51	5.62	20.48	12.54	22.32
3.	40	Electricity	15.75	1.28	5.53	15.65	17.13	0.11	21.07
4.	30	Manufacture of rubber, plastic, petroleum and coal products	4.81	19.03	16.06	10.44	7.62	13.21	6.33
5.	23	Manufacture of cotton textiles	8.99	5.10	5.33	6.65	5.84	7.93	5.35
6.	36	Manufacture of electrical machinery apparatus appliances and suppliers and parts	6.78	4.39	4.53	6.39	4.69	13.18	2.73
7.	22	Manufacture of beverages tobacco and tobacco products	4.25	2.50	2.78	1.07	3.93	1.07	4.58
8.	32	Manufacture of non metallic mineral products	5.52	1.45	2.00	2.29	3.66	1.85	4.08
9.	35	Manufacture of machinery, machine tools and parts except electrical machinery	3.72	1.35	1.72	2.24	2.80	3.19	2.70
10.	28	Manufacture of paper and paper products and printing and publishing and allied industries	5.36	4.65	4.56	16.51	2.41	11.60	0.29

(contd.)

(Table 21 contd.)

sl. no.	Code	Description	No. of units	4	5	6	7	8	9	No. of persons employed	10
	11.	26									
		Manufacture of textile products (including wearing apparel other than foot wear)	3.28	0.58	2.82	1.25	1.23	0.58	2.28		
	12.	27.									
		Manufacture of wood and wood products, furniture & fixtures	22.82	1.08	2.37	1.47	1.43	1.02	5.65		
	13.	97									
		Repair services	3.82	0.35	0.35	0.34	0.31	0.05	2.92		
	14.	33.									
		Basic metal and alloys Industries	1.16	1.93	1.13	1.69	2.69	1.94	1.46		
	15.	37									
		Manufacture of transport equipments and parts	0.70	7.35	3.32	6.14	8.27	6.80	1.71		
	16.	38									
		Other manufacturing industries	0.56	0.42	1.78	0.83	0.65	1.16	0.65		
	17.	34									
		Manufacture of metal products and parts (except machinery and transport equipment)	4.05	0.58	1.25	0.78	0.97	1.42	5.52		
	18.	24									
		Manufacture of wool silk & synthetic fibre textiles	0.03	0.22	0.14	0.20	0.24	0.19	0.25		
	19.	96									
		Laundry	0.10	0.01	-	0.01	0.01	-	0.02		
	20.	42									
		Water works & supply	0.17	0.11	0.01	0.08	0.08	-	0.10		
		All industries	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

(contd.)

(Table 21 contd.)

sl. no.	Code	Description	Total Emoluments	Total input	Total output	Depreciation	Value added	Factor of payment	Net income
1	2	3	11	12	13	14	15	16	17
11.	26	Manufacture of textile products (including wearing apparel other than foot wear)	2.43	2.33	2.21	1.02	2.04	1.35	2.20
12.	27.	Manufacture of wood and wood products, furniture & fixtures	3.23	2.13	2.07	1.50	1.97	3.00	1.73
13.	97	Repair services	4.87	0.31	0.60	0.47	1.53	0.10	1.86
14.	33.	Basic metal and alloys Industries	3.50	4.13	3.44	2.44	1.48	2.37	1.28
15.	37	Manufacture of transport equipments and parts	3.29	1.63	1.66	4.36	1.33	10.63	-0.82
16.	38	Other manufacturing industries	1.22	0.65	0.72	0.61	0.99	1.64	0.84
17.	34	Manufacture of metal products and parts (except machinery and transport equipment)	2.12	1.33	1.19	1.09	0.78	2.60	0.36
18.	24	Manufacture of wool silk & synthetic fibre textiles	0.40	0.30	0.32	0.21	0.39	0.43	0.38
19.	96	Laundry	0.04	0.01	0.02	0.02	0.07	-	0.09
20.	42	Water works & supply	0.12	0.09	0.08	0.09	0.05	-	0.06
All industries			100.00	100.00	100.00	100.00	100.00	100.00	100.00

Table 22 - Important structural ratios of Industries in respect of major groups

sl. no	Code	Description of industry	4	5	6	7	8	9	10	11	12
			Ratio of fixed capital to value added	Ratio of fixed capital to gross output	Ratio of value added to gross output	Gross input output ratio	Ratio of emoluments to value added	Fixed capital per em- ployee	Emolu- ments per em- ployee	Output per em- ployee	Value added per em- ployee
1	2	3	4	5	6	7	8	9	10	11	12
1.	20-21	Manufacture of food products	0.25	0.05	0.20	0.80	0.21	3687	3098	74556	14658
2.	22	Manufacture of beverages, tobacco & tobacco products	0.34	0.11	0.33	0.65	0.49	4088	5898	36400	12080
3.	96	Laundry	0.34	0.25	0.72	0.25	0.25	23718	17701	96635	69156
4.	97	Repair services	0.51	0.30	0.59	0.77	0.54	12758	10892	93468	20242
5.	26	Manufacture of textile products (including wearing apparels other than foot wear)	0.63	0.14	0.22	0.77	0.54	12758	10892	93468	20242
6.	32	Manufacture of non-metallic mineral products	0.72	0.31	0.43	0.53	0.68	10617	9959	33979	14649
7.	35	Manufacture of machinery, machine tools and parts except electrical machinery	0.88	0.33	0.38	0.57	0.60	32086	21971	96097	36632
8.	38	Other manufacturing industries	0.96	0.31	0.32	0.65	0.56	32997	19192	107596	34472
9.	31	Manufacture of chemical and chemical products (except products of petroleum & coal	1.04	0.25	0.24	0.73	0.30	75832	22162	308245	72961

(contd.)

(Table 22 contd.)

	1	2	3	4	5	6	7	8	9	10	11	12
10. 27.	Manufacture of wood and wood products furniture & foxtires			1.22	0.27	0.22	0.75	0.74	9636	5838	35322	7885
11. 24.	Manufacture of wool, silk & synthetic fibre textiles			1.28	0.36	0.28	0.69	0.47	44882	16454	123498	35147
12. 23	Manufacture of cotton textiles			1.38	0.36	0.26	0.70	0.70	24027	12101	67582	17393
13. 34	Manufacture of metal products & parts except machinery & transport equipment			1.67	0.26	0.15	0.81	1.23	5357	3927	20825	3195
14. 36	Manufacture of electrical machinery manufacturing apparatus and supplies & parts			2.08	0.51	0.24	0.71	0.65	70839	22199	139800	34049
15. 33.	Basic metal and alloy industries			2.90	0.29	0.10	0.87	1.07	66940	24593	227828	23061
16. 30	Manufacture of rubber, plastic petroleum & coal products			4.63	0.52	0.11	0.86	0.28	266224	16370	514372	57466
17. 42	Water works and supply			4.70	0.69	0.15	0.82	1.02	58118	12599	83851	12357
18. 40	Electricity			4.90	3.58	0.73	0.17	0.41	198730	16792	55570	40491
19. 28	Manufacture of paper and paper products and printing publishing & allied industries			10.22	1.27	0.12	0.74	1.00	169855	16700	133653	16627
20. 37	Manufacture of transport equipment and parts			12.37	2.32	0.19	0.72	1.12	217370	19679	93604	17571
	All industries			2.23	0.52	0.24	0.73	0.45	50560	10220	96316	22645

APPENDIX [Rs.in lakhs]

sl. no.	Code Name of Industry	1	2	3	4	5	6	7	8	9	Mandays worked			wages to workers
											(Nos)	(Nos)	(Nos)	
											10	11	12	13
1.	200 & 201 Slaughtering, preparation & preservation of meat & manufacture of diary products	9	37.85	14.68	52.53	105.05	56.09	268878	480	769	66.10			
2.	202 Canning and preservation of fruits and vegetables	16	62.44	103.63	166.07	201.75	161.77	136972	472	587	19.24			
3.	203 Canning, preserving and processing of fish	63	700.72	-90.84	609.88	1182.53	1049.01	621170	1509	2404	81.76			
4.	204 Grain mill products	34	169.94	125.90	295.84	306.90	334.90	152220	474	611	32.28			
5.	205 Manufacture of bakery products	5	66.57	39.02	105.59	105.57	13.83	88351	211	294	19.09			
6.	206 Manufacture & refining of sugar	1	56.94	199.38	256.32	231.90	30.94	142875	323	469	42.71			
7.	211 Manufacture of other edible oils and fats	38	211.87	296.70	508.57	1116.56	380.40	273526	758	987	54.05			
8.	212 Tea processing	87	946.91	1045.47	1992.38	2180.31	163.86	1585447	5028	5530	269.86			
9.	213 Coffee, curing, roasting and grindings	6	18.04	47.17	65.21	27.81	6.03	111697	552	767	15.00			
10.	214 Cashewnut processing like drying, shelling	260	265.84	1924.29	2190.13	3424.07	5168.96	27462584	58641	65638	872.59			
11.	215 Manufacture of Ice	6	26.70	7.05	38.76	31.66	12.24	15478	14	50	0.73			
12.	216 Manufacture of prepared animal feeds	3	141.57	87.10	228.66	222.44	79.20	105633	272	351	50.49			

[appendix contd.]

sl. no.	Code Name of industry	Total emoluments	Fuel consumed	Materials consumed	Other input	Total input	Product	Other output	Total output	Depreciation	Value added
1	2	3	4	5	6	7	8	9	10	11	12
1	200 & 201 Slaughtering, preparation & preservation of meat & manufacture of dairy products	115.19	40.66	1421.46	113.15	1575.27	1767.11	1.90	1769.01	4.14	189.60
2	202 Canning and preservation of fruits and vegetables	29.21	7.12	235.95	15.64	258.71	282.66	21.04	303.70	6.69	38.30
3	203 Canning, preserving and processing of fish	174.52	115.39	6352.26	368.90	6836.55	7349.90	285.54	7635.44	152.13	646.76
4	204 Grain mill products	49.31	19.06	1298.17	55.11	1372.34	1420.88	19.20	1440.08	21.75	45.99
5	205 Manufacture of bakery products	40.30	21.44	287.96	20.27	329.67	545.78	3.40	549.18	8.33	211.18
6	206 Manufacture & refining of sugar	80.32	15.84	146.29	40.87	203.00	323.27	4.40	327.67	5.64	119.03
7	211 Manufacture of other edible oils and fats	33.08	29.66	8544.20	126.46	8700.32	11269.72	64.85	11334.57	26.18	2608.07
8	212 Tea processing	391.59	584.44	10181.56	448.37	11214.37	17056.91	27.45	17084.36	186.64	5683.35
9	213 Coffee, curing, roasting and grindings	28.72	1.68	2.09	10.43	14.20	--	47.32	47.32	1.23	31.89
10	214 Cashewnut processing like drying, shelling	320.76	66.74	10223.41	619.45	10909.60	12332.63	236.05	12568.68	27.41	1631.67
11	215 Manufacture of ice	5.22	2.28	18.24	10.71	31.24	43.77	1.13	44.90	4.05	9.61
12	216 Manufacture of prepared animal feeds	48.96	17.84	877.86	54.32	950.01	1112.22	5.85	1118.07	26.65	141.41

[appendix contd.]

sl. no.	Code Name of Industry	No of units	Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loan	Mandays worked			All employees (Nos)	wages to workers
								4	5	6		
13.	217 Manufacture of starch	10	169.72	256.25	425.97	379.25	534.69	158916	343	590	38.67	
14.	219 Manufacture of food products not elsewhere classified	19	53.06	134.07	187.13	186.80	38.21	311751	279	377	20.39	
15.	220 Distilling, rectifying and blending of spirits	9	339.43	1339.97	1739.40	929.67	501.46	310059	585	971	84.01	
16.	222,223 Malt liquors and malt and & 224 soft drinks and carbonated water industries	9	244.18	139.45	383.63	434.12	234.50	137782	324	422	38.47	
17.	226 Manufacture of beedi	325	93.01	204.90	297.91	648.85	36.90	4972208	16081	16931	686.55	
18.	227 & Manufacture of cigars, cigarettes and cheroots & manufacture of tobacco and tobacco products not elsewhere classified	3	18.24	165.25	183.49	151.67	--	42183	85	143	5.57	
19.	231 Cotton, spinning and weaving in mill	28	4157.45	1121.87	5279.32	6910.81	5487.38	4607573	12508	13850	1596.53	
20.	232 & Printing, dyeing and bleaching of cotton textiles	4	10.65	1.90	12.55	29.16	13.28	34229	88	128	6.50	
21.	235 Weaving and finishing of cotton textiles in handloom other than khadi	92	191.82	280.64	472.46	581.26	465.71	1359620	4004	4604	199.83	
22.	236, Weaving & finishing of cotton textiles in powerlooms and	27	503.60	66.92	570.52	719.80	639.34	348299	850	1113	97.48	

[appendix contd.]

sl. no.	Code Name of industry	Total emoluments			Fuel consumed			Materials consumed			Other input			Total input			Product output			Other output			Total output			Depreciation			Value added						
		14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43				
13.	217	63.16	91.67	643.78	70.00	805.45	1048.79	4.63	1053.42	17.27	230.70																								
14.	219	30.09	9.67	3827.93	40.93	3878.53	3878.10	61.14	3939.24	6.48	54.23																								
15.	220	174.14	73.14	846.68	117.32	1037.14	1967.56	35.80	2003.36	41.91	924.31																								
16.	222,223 & 224	62.53	48.40	347.20	107.13	502.73	701.37	138.88	840.25	44.16	293.36																								
17.	226	841.51	8.58	1434.47	1214.02	2657.07	3017.75	660.79	3678.54	5.90	1015.57																								
18.	227 & 229	11.01	1.64	159.07	39.33	200.04	199.91	-	199.91	2.32	-2.45																								
19.	231	1973.57	591.67	5845.80	453.83	6891.30	10164.60	70.33	10234.93	545.82	2797.81																								
20.	232 & 234	12.62	7.82	35.83	2.37	46.02	39.70	10.77	50.47	0.70	3.75																								
21.	235	132.24	35.85	981.48	44.73	1062.06	1186.23	162.52	1348.75	38.91	247.78																								
22.	236, 239 & 247	43.78	43.78	1267.63	210.47	1521.88	1971.97	56.47	2028.44	18.40	488.16																								
		292.34	43.78	1267.63	210.47	1521.88	1971.97	56.47	2028.44	18.40	488.16																								
		132.24	35.85	981.48	44.73	1062.06	1186.23	162.52	1348.75	38.91	247.78																								

[appendix contd.]

sl. no.	Code Name of Industry	1	2	3	4	5	6	7	8	9	10	11	12	13
		No of units	Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loan	Mandays worked	All workers (Nos)	All employees (Nos)	wages to workers			
23.	260 & 261 Manufacture of all types of threads	8	348.66	1152.58	1501.24	1507.29	180.25	663758	2415	2870	275.88			
24.	264 & 265 Manufacture of all types of textiles & manufacture of rain coats, hats etc.	11	13.40	91.97	105.37	95.02	32.65	84136	266	346	10.06			
25.	268 Manufacture of coil and coil products	80	367.98	293.79	661.77	753.35	680.76	894171	1977	2506	124.07			
26.	270 Manufacture of veneer, plywood and their products	84	958.35	801.96	1760.31	1921.38	1173.80	1009753	2867	3670	244.18			
27.	271 Sawing and planing of wood [other than plywood]	548	302.53	267.85	570.38	494.36	267.01	2149634	7850	9201	244.46			
28.	272 Manufacture of wood and cane boxes	12	18.39	11.66	30.05	37.84	13.15	37226	134	168	5.10			
29.	273 Manufacture of structural wooden goods	10	36.19	45.83	82.02	101.24	51.04	89790	218	306	18.55			
30.	274 & 275 Manufacture of wooden industrial goods	11	8.08	8.35	16.43	15.02	9.00	27340	108	128	4.33			
31.	276 Manufacture of wooden furniture and fixtures	21	34.07	151.62	185.69	141.52	56.43	185826	532	656	50.55			
32.	279 Manufacture of wood bamboo & cane products	2	8.62	5.47	14.09	14.87	2.62	1582	20	50	0.29			
33.	280 Manufacture of pulp, paper and paper board	5	12647.33	921.58	13568.91	14773.81	1074.39	568117	1093	1674	160.99			

(contd.)

[appendix contd.]

sl. no.	Code Name of industry	Total emol- uments	Fuel con- sumed	Materials consumed	Other input	Total input	Product	Other output	Total output	Depre- ciation	Value added
1	2	14	15	16	17	18	19	20	21	22	23
23.	260 & Manufacture of all types of threads	405.71	142.76	1374.94	120.41	1638.11	2600.76	6.33	2607.09	49.26	919.72
24.	264 & Manufacture of all types of textiles & manufacture of rain coats, hats etc.	16.13	1.31	88.52	11.03	100.86	128.22	11.31	139.53	1.23	37.44
25.	268 Manufacture of coir and coir products	201.39	24.18	2118.62	218.06	2360.86	2450.56	151.03	2601.59	39.62	201.11
26.	270 Manufacture of veneer, plywood and their products	392.22	114.52	1482.96	180.47	1777.95	2312.17	69.44	2381.61	95.26	508.40
27.	271 Sawing and planing of wood [other than plywood]	320.17	36.97	1483.17	141.66	1661.80	1900.85	249.68	2150.53	25.87	462.86
28.	272 Manufacture of wood and cane boxes	6.99	1.72	45.43	5.93	53.08	63.51	0.67	64.18	1.05	10.05
29.	273 Manufacture of structural wooden goods	29.30	3.25	67.04	26.28	96.57	120.41	16.26	136.67	4.67	35.43
30.	274 & Manufacture of wooden industrial goods	5.29	0.88	21.90	2.38	25.16	37.52	1.53	39.05	0.92	12.97
31.	276 Manufacture of wooden furniture and fixtures	73.02	2.77	124.29	13.72	140.78	224.94	11.86	236.80	3.72	92.30
32.	279 Manufacture of wood bamboo & cane products	0.83	0.91	0.27	1.25	2.43	-0.55	-	-0.55	0.98	-3.96
33.	280 Manufacture of pulp, paper and paper board	337.20	1201.07	2324.07	471.25	3996.39	5999.66	27.83	6027.49	1260.10	771.00

(contd.)

[appendix contd.]

Sl. no.	Code Name of Industry	3	4	5	6	7	8	9	Mandays worked			12	13
									No of units	Fixed capital	Working capital		
34.	281 Manufacture of container & boxes of paper & paper boards	8	48.47	48.98	97.45	95.58	82.01	37066	92	126	7.04		
35.	284 Printing and publishing of newspapers	23	642.77	688.08	1330.85	994.12	1055.41	837663	1242	2395	195.94		
36.	285 Printing and publishing of periodicals books & journals	54	566.74	354.22	920.96	783.77	299.61	3444219	2645	3285	339.60		
37.	287& Engraving, etching, block 288 making etc. & book binding	4	6.41	13.15	19.56	33.20	11.21	20906	50	78	3.15		
38.	289 Printing, publishing & allied activities not elsewhere classified	38	80.91	29.62	110.53	119.97	81.24	202975	547	680	50.62		
39.	290& Tanning, curing, finishing emboss- 291 ing and japaning of leather	-	-	-	-	-	-	-	-	-	-		
40.	300 Tyre and tube industries	8	1726.18	76.83	1803.01	3510.88	5184.14	676492	1479	2282	206.26		
41.	301& Manufacture of footwear made 302 primarily of vulcanised or moulded rubber and plastic	151	1237.83	1242.11	2479.94	2573.32	1142.96	1461810	3967	4959	371.50		
42.	303& Manufacture of petroleum & plastic 304 products not elsewhere classified	13	17101.30	3777.96	20879.26	22908.75	20296.06	257128	487	296	63.79		
43.	310 Manufacture of basic industrial organic & inorganic chemicals & gases such as acids, alkalies & their salts gases like accetylene,oxygen,nitrogen etc.	27	2298.51	2535.98	4834.49	4138.48	2288.78	1610910	3344	4709	664.54		

(contd.)

[appendix contd.]

sl. no.	Code Name of industry	Total emoluments	Fuel consumed	Materials consumed	Other input	Total input	Product output	Other output	Total output	Depreciation	Value added
1	2	3	4	5	6	7	8	9	10	11	12
34.	281 Manufacture of container & boxes of paper & paper boards	12.77	3.08	205.28	20.49	228.85	281.87	2.48	284.35	4.76	50.74
35.	284 Printing and publishing of newspapers	472.96	28.28	2910.29	381.48	3320.05	3368.51	320.98	3689.49	124.64	244.80
36.	285 Printing and publishing of periodicals books & journals	469.93	16.13	387.31	72.64	476.08	436.91	289.08	725.99	53.40	196.51
37.	287 & 288 Engraving, etching, block making etc. & book binding	6.49	0.27	41.47	3.52	45.26	57.90	0.18	58.08	0.93	11.89
38.	289 Printing, publishing & allied activities not elsewhere classified	76.39	4.62	93.83	21.93	120.38	115.68	109.24	224.92	9.72	94.82
39.	290 & 291 Tanning, curing, finishing, embossing and japanning of leather	-	-	-	-	-	-	-	-	-	-
40.	300 Tyre and tube industries	412.47	333.54	4643.72	425.41	5402.67	6325.15	136.41	6461.56	330.58	728.31
41.	301 & 302 Manufacture of footwear made primarily of vulcanised or moulded rubber and plastic	623.40	319.03	10640.58	458.08	11417.69	14097.32	263.45	14360.77	143.29	2799.79
42.	303 & 304 Manufacture of petroleum & products not elsewhere classified	197.96	105.32	16269.85	322.15	16697.32	17015.88	929.96	17945.84	445.44	803.08
43.	310 Manufacture of basic industrial organic & inorganic chemicals & gases such as acids, alkalis & their salts gases like acetylene, oxygen, nitrogen etc.	1153.26	1302.32	2860.26	833.81	4996.39	7936.97	103.61	8040.58	609.71	2434.48

(contd.)

[appendix contd.]

sl. no.	Code Name of Industry	No of units	Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loan	Mandays worked (Nos)	All workers (Nos)	em- ployees (Nos)	wages to workers	
1	2	3	4	5	6	7	8	9	10	11	12	13
44.	311 Manufacture of fertilisers & pesticides	18	7148.22	4650.87	11799.09	13863.02	608.40	2129088	4094	5801	1058.68	
45.	313 Manufacture of drugs & medicines	42	329.40	357.65	687.05	759.21	705.52	603550	1643	2269	155.46	
46.	314 Manufacture of perfumes cosmetics lotions, hair dressings	11	644.27	995.99	1640.26	1979.75	2156.28	318804	1601	2045	270.39	
47.	315& 316 Manufacture of inedible oils like turpentine, synthetic resins etc.	11	136.43	116.75	253.18	178.90	150.43	49470	180	656	8.17	
48.	317 Manufacture of matches	10	0.53	0.70	1.23	2.94	0.05	36602	120	138	2.60	
49.	319 Manufacture of chemical products not elsewhere classified (including photo chemicals, sensitised films and paper)	7	1736.53	122.06	1858.59	2301.09	1623.53	174887	421	594	33.13	
50.	320 Manufacture of structural clay products	274	747.65	514.19	1261.84	1314.53	696.17	3149432	10521	11828	783.88	
51.	321& 323 Manufacture of glass and glass products and manufacture of chinaware & porcelainware	12	218.13	43.33	261.46	381.52	1059.43	386691	1133	1302	96.20	
52.	324& 326 Manufacture of cement, lime and plaster and manufacture of structural stone goods, stone ware, stone dressing and stone crushing	7	170.32	135.67	305.99	318.80	20.64	121880	302	380	73.72	
53.	329 Manufacture of miscellaneous non-metallic mineral products	7	372.61	261.31	633.92	656.04	58.51	211232	539	701	49.72	

(contd.)

[appendix contd.]

Sl. no.	Code Name of industry	Total elements	Fuel consumed	Materials consumed	Other input	Total input	Product output	Other output	Total output	Depreciation	Value added
1	2	3	4	5	6	7	8	9	10	11	12
44.	311 Manufacture of fertilisers & pesticides	1639.95	2207.55	18298.52	1814.45	22320.52	30189.16	658.52	30847.68	1026.12	7501.04
45.	313 Manufacture of drugs & medicines	290.73	104.26	1209.28	126.94	1440.48	2034.23	18.51	2052.74	41.21	571.05
46.	314 Manufacture of perfumes cosmetics lotions, hair dressings	423.19	283.70	5159.28	124.30	5567.28	6726.93	13.05	6739.98	79.14	1093.56
47.	315 & 316 Manufacture of inedible oils like turpentine, synthetic resins etc.	18.08	23.74	101.94	11.41	137.09	160.58	6.82	167.40	14.32	15.99
48.	317 Manufacture of matches	3.42	0.59	13.79	2.51	16.89	22.52	-	22.52	0.07	5.56
49.	319 Manufacture of chemical products not elsewhere classified (including photo chemicals, sensitised films and paper)	64.31	236.95	1430.15	120.27	1787.37	1986.30	115.48	2101.78	107.71	206.70
50.	320 Manufacture of structural clay products	1055.30	644.89	342.43	197.71	1185.03	2662.08	26.55	2688.63	72.28	1431.32
51.	321 & 323 Manufacture of glass and glass products and manufacture of chinaware & porcelainware	144.55	174.90	149.24	43.15	367.29	566.22	6.09	572.31	31.10	173.92
52.	324 & 326 Manufacture of cement, lime and plaster and manufacture of structural stone goods, stone ware, stone dressing and stone crushing	116.65	309.58	241.24	53.94	604.76	868.69	9.03	877.72	54.97	217.99
53.	329 Manufacture of miscellaneous non-metallic mineral products	98.74	63.80	275.78	49.07	388.65	687.09	3.02	690.11	42.89	258.57

(contd.)

[appendix contd.]

sl. no.	Code Name of Industry	1	2	3	4	5	6	7	8	9	10	11	12	13
		No of units	Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loan	Mandays worked	All workers (Nos)	All employees (Nos)	wages to workers			
54.	330 Iron and steel industries	11	982.95	264.87	1247.82	1553.29	1460.07	395092	890	1268	131.18			
55.	331 Foundries for casting and forging iron and steel	20	717.49	40.60	758.09	1136.08	1291.22	249944	473	820	71.48			
56.	335& 336 Aluminum manufacturing and zinc manufacturing	4	746.21	312.66	1058.87	2446.60	243.08	603090	1064	1567	278.93			
57.	340 Manufacture of fabricated metal products	47	205.22	104.42	309.64	557.00	634.88	276628	719	10922	57.87			
58.	341 Manufacture of structural metal products	22	288.72	340.11	628.83	672.77	755.93	322308	747	1123	112.68			
59.	342& 343 Manufacture of hand tools & general hardware	35	208.95	176.47	385.42	426.72	663.15	397231	1091	1373	82.65			
60.	344 Enamelling, japanning, lacquering, galvanising, plating and polishing of metal products	-	-	-	-	-	-	-	-	-	-			
61.	345 Manufacture of metal utensils cutting	16	38.71	54.08	92.79	177.40	131.47	115682	327	413	24.08			
62.	349 Manufacture of metal products except machinery & transport equipment not elsewhere classified like type founding	-	-	-	-	-	-	-	-	-	-			
63.	350 Manufacture of agricultural machinery & equipment & parts	8	208.27	262.73	471.00	576.19	693.21	191007	413	389	40.08			

(contd.)

[appendix contd.]

sl. no.	Code Name of industry	Total emoluments	Fuel consumed	Materials consumed	Other input	Total input	Product output	Other output	Total output	Depreciation	Value added
1	2	14	15	16	17	18	19	20	21	22	23
54.	330 Iron and steel industries	253.89	232.40	1842.71	342.47	2417.58	2451.54	198.80	2650.34	64.72	168.04
55.	331 Foundries for casting and forging iron and steel	148.03	88.63	959.59	58.48	1106.70	1219.83	85.99	1305.82	24.11	175.01
56.	335& 336 Aluminum manufacturing and zinc manufacturing	496.96	1000.22	2471.24	274.02	3745.48	4356.79	14.15	4370.94	125.65	499.81
57.	340 Manufacture of fabricated metal products	104.92	14.12	580.08	58.19	652.39	671.68	76.30	747.98	35.16	60.43
58.	341 Manufacture of structural metal products	175.64	26.30	455.59	318.56	800.45	406.06	561.91	967.97	28.44	139.08
59.	342& 343 Manufacture of hand tools & general hardware	228.76	100.45	493.93	68.33	662.71	857.84	25.00	882.84	25.79	194.34
60.	344 Enamelling, japanning, lacquering, galvanising, plating and polishing of metal products	-	-	-	-	-	-	-	-	-	-
61.	345 Manufacture of metal utensils cutting	33.43	20.80	176.71	27.74	225.25	267.23	11.55	278.78	6.37	47.16
62.	349 Manufacture of metal products except machinery & transport equipment not elsewhere classified like type founding	-	-	-	-	-	-	-	-	-	-
63.	350 Manufacture of agricultural machinery & equipment & parts	113.17	12.56	583.15	39.31	635.02	901.11	6.77	907.88	27.56	245.30

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sl. no.	Code Name of Industry	1	2	3	4	5	6	7	8	9	10	11	12	13
		No of units	Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loan	Mandays worked (Nos)	All workers (Nos)	All employees (Nos)	wages to workers			
64.	351 Manufacture & repair of drills, coal cutting machines, earth moving, lifting & hoisting machine cranes, conveyers and road rollers and other heavy machinery & equipment used by construction and mining industries	-	-	-	-	-	-	-	-	-	-	-	-	-
65.	353 Industrial machinery for food and textiles	7	15.50	14.67	30.17	43.56	66.06	54469	163	198	14.36			
66.	354 & Industrial machinery for other than food	17	40.22	31.84	72.06	68.46	56.97	73487	214	263	18.99			
67.	357 & Manufacture of machine tools, 358 their parts & accessories	15	1105.52	1373.79	2479.31	3052.20	1670.36	953140	1894	3240	367.52			
68.	359 Manufacture and repair of non electrical machinery	21	22.06	25.76	47.82	46.72	34.16	69669	182	259	14.07			
69.	360 Manufacture of electrical industrial machinery & apparatus	11	1198.55	-1104.76	93.79	2361.77	19984.89	754247	1816	2583	245.63			
70.	361 Manufacture of insulated wires and cables	4	1271.08	-532.23	738.85	1862.78	1910.52	187733	614	926	101.01			
71.	362 & Manufacture of electrical 363 apparatus	7	512.12	192.16	704.28	905.26	1172.83	389583	917	1245	159.16			
72.	364 Manufacture of radio, TV, transmitting & receiving sets etc.	7	420.18	1467.21	1887.39	1318.15	815.59	326276	706	1109	100.24			

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sl. no.	Code Name of industry	Total emoluments	Fuel consumed	Materials consumed	Other input	Total input	Product output	Other output	Total output	Depreciation	Value added
1	2	3	4	5	6	7	8	9	10	11	12
64.	351 Manufacture & repair of drills, coal cutting machines, earth moving, lifting & hoisting machine cranes, conveyers and road rollers and other heavy machinery & equipment used by construction and mining industries	-	-	-	-	-	-	-	-	-	-
65.	353 Industrial machinery for food and textiles	21.73	5.44	44.94	2.89	53.27	61.92	6.68	68.60	1.20	14.13
66.	354 & Industrial machinery for other than food	26.56	6.93	93.03	20.03	119.99	158.05	13.23	171.28	3.66	47.63
67.	357 & Manufacture of machine tools, their parts & accessories	771.20	78.20	1241.11	202.18	1521.49	2831.43	107.24	2938.67	162.57	1254.61
68.	359 Manufacture and repair of non electrical machinery	21.11	5.24	41.44	9.06	55.74	70.35	16.23	86.58	2.45	28.39
69.	360 Manufacture of electrical industrial machinery & apparatus	734.69	45.98	1930.92	160.27	2137.17	3045.67	164.29	3209.96	176.02	896.77
70.	361 Manufacture of insulated wires and cables	200.65	35.20	1638.29	127.19	1800.68	1806.00	62.63	1868.63	59.10	8.85
71.	362 & Manufacture of electrical apparatus	254.48	115.34	1107.78	96.54	1319.66	2053.81	21.09	2074.90	58.34	696.90
72.	364 Manufacture of radio, TV, transmitting & receiving sets etc.	210.36	11.55	549.87	304.54	865.96	970.74	78.22	1048.96	35.56	147.44

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sl. no.	Code Name of Industry	1	2	3	4	5	6	7	8	9	10	11	12	13
				No of units	Fixed capital	Working capital	Productive capital	Invested capital	Outstand- ing loan	Mandays worked (Nos)	All workers (Nos)	All em- ployees (Nos)	wages to workers	
73.	366 Manufacture of electronic computers			4	723.42	202.19	925.61	1344.95	919.97	179532	305	638	31.55	
74.	367 Manufacture of electronic components & accessories			13	1339.78	478.65	1818.43	1935.78	1951.09	335059	680	1119	79.83	
75.	369 Manufacture of electrical machinery apparatus, appliances and supplies			6	84.39	-7.44	76.95	161.83	150.53	62648	164	214	14.81	
76.	370 Ship building & repairing			12	8800.02	1741.08	10541.10	15148.80	10133.13	735437	1438	2620	214.46	
77.	374 & Manufacture of motor vehicles 375 & parts and manufacture of motor cycles & scooters & parts			4	515.11	60.52	575.63	630.79	301.36	455637	1123	1362	205.29	
78.	376 Manufacture of bicycles, cycle rickshaws & parts			5	9.61	9.55	19.16	34.02	37.30	90556	269	308	15.89	
79.	380 Manufacture of medical surgical & scientific equipment			9	515.12	930.74	1445.86	1149.10	1747.91	401797	998	1278	133.17	
80.	381, 382 Manufacture of photo- & 387 graphic & optical goods & manufacture of watches & clocks & stationery articles			5	20.43	35.20	55.63	99.20	41.41	76820	195	263	22.39	

[appendix contd.]

sl. no.	Code Name of industry	Total elements	Fuel consumed	Materials consumed	Other input	Total input	Product	Other output	Total output	Depreciation	Value added
1	2	14	15	16	17	18	19	20	21	22	23
73.	366 Manufacture of electronic computers	132.72	8.08	617.29	222.35	847.72	1013.87	488.00	1501.87	62.26	591.89
74.	367 Manufacture of electronic components & accessories	182.25	19.64	560.11	81.28	661.03	1092.74	29.30	1122.04	166.48	294.53
75.	369 Manufacture of electrical machinery apparatus, appliances and supplies	23.89	1.92	68.26	19.74	89.92	117.78	7.78	125.56	4.62	31.02
76.	370 Ship building & repairing	562.75	74.47	1547.54	556.25	2178.26	1708.58	1889.62	3598.20	331.05	1088.89
77.	374 & Manufacture of motor vehicles 375 & parts and manufacture of motor cycles & scooters & parts	259.70	29.59	505.60	28.37	563.56	219.77	3.27	223.04	51.56	-392.08
78.	376 Manufacture of bicycles, cycle rickshaws & parts	21.78	1.58	126.91	7.44	135.93	194.13	0.26	194.39	1.46	57.00
79.	380 Manufacture of medical surgical & scientific equipment	270.92	15.95	880.99	143.17	1040.11	1522.06	81.05	1603.11	50.78	512.22
80.	381, 382 Manufacture of photo- & 387 graphic & optical goods & manufacture of watches & clocks & stationary articles	37.53	1.22	69.89	14.84	85.95	101.15	31.19	132.34	2.83	43.56

(contd.)

[appendix contd.]

sl. no.	Code Name of Industry	1	2	3	4	5	6	7	8	9	10	11	12	13
			No of units	Fixed capital	Working capital	Productive capital	Invested capital	Outstanding loan	Mandays worked (Nos)	All workers (Nos)	All employees (Nos)	wages to workers		
81.	389 Manufacture of miscellaneous products not elsewhere classified		3	1.33	1.97	3.30	3.28	1.51	23574	63	86	2.67		
82.	400 Generation and transmission of electric energy		7	47798.48	20600.68	68399.16	55915.13	50670.10	8779575	14872	24052	2351.20		
83.	420 Water supply		5	142.39	6.66	149.05	149.04	-	66584	217	245	25.21		
84.	910 Sanitation and similar services		-	-	-	-	-	-	-	-	-	-		83
85	961 Laundries, laundry services and cleaning and dyeing plants		3	13.53	1.06	14.59	14.16	0.51	37307	50	57	8.13		
86	973 Repair of motor vehicles and motor cycles		105	411.55	159.18	570.73	547.41	69.54	1958925	5106	5917	725.33		
87.	979 Repair of enterprises not elsewhere classified		10	26.79	24.28	51.07	47.56	2.13	412454	1217	1421	175.11		
	All industries		3014	126887.06	54497.58	181384.64	191263.51	154081.16	83665130	194695	250963	15695.72		

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sl. no.	Code Name of industry	Total emoluments	Fuel consumed	Materials consumed	Other input	Total input	Product	Other output	Total output	Depreciation	Value added
1	2	3	4	5	6	7	8	9	10	11	12
81.	389 Manufacture of miscellaneous products not elsewhere classified	3.82	0.14	8.70	1.09	9.93	15.06	0.07	15.13	0.12	5.08
82.	400 Generation and transmission of electric energy	4038.71	187.00	448.00	1614.34	2249.34	10774.34	2591.25	13365.59	1377.39	9738.86
83.	420 Water supply	30.87	106.41	56.73	4.33	167.47	205.43	-	205.43	7.69	30.27
84.	910 Sanitation and similar services	-	-	-	-	-	-	-	-	-	-
85	961 Laundries, laundry services and cleaning and dyeing plants	10.09	4.43	6.23	2.95	13.61	-0.89	55.97	55.08	1.77	39.70
86	973 Repair of motor vehicles and motor cycles	1020.29	117.20	298.96	57.08	473.24	26.98	1135.90	1162.88	37.60	652.04
87.	979 Repair of enterprises not elsewhere classified	229.43	10.90	41.58	25.15	77.63	-	296.74	296.74	3.55	215.56
	All Industries	25649.52	11905.15	148831.94	15347.69	176084.78	228179.92	13538.34	241718.26	8803.53	56829.95

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