



GOVERNMENT OF KERALA

**ANNUAL SURVEY OF INDUSTRIES  
KERALA STATE**

**1980-81 & 1981-82**

**DEPARTMENT OF ECONOMICS & STATISTICS**

**TRIVANDRUM**

**JANUARY, 1987**



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## PREFACE

The present report relates to Annual Survey of Industries in Kerala for the year 1980-81 and 1981-82. It is the sixteenth publication in its series. The report presents a broad picture of the pattern and growth of the industrial sector (factory sector) of Kerala State and is based on the data collected in the Annual Survey of Industries 1980-81 and 1981-82.

The important results of the survey are presented under four chapters. The first chapter deals with coverage, concepts, definition etc. of the survey. The second chapter provides the review of results. The third gives the analysis of major structural characteristics and fourth deals with the relative importance of different industries.

The report is prepared in the Industrial Statistics Unit of the Department under the supervision of Sri K. P. Alexander, Assistant Director. The sincere services rendered by Sri P. Sivaraman, Research Officer, Sri D. Devanesan, Research Assistant, Smt. B. Ponnammal and Kumari R. Geetha, compilers are acknowledged.

This report, it is hoped, will be beneficial to the planners, administrators and research workers interested in the industrial development of the State. Suggestions to improve the report would be highly appreciated.

Trivandrum,  
23-1-1987.

K. BALAKRISHNAN NAIR,  
*Director of Economics and Statistics.*

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## CHAPTER I

### GENERAL

1.1 *Introduction.*—The Annual Survey of Industries (ASI) is the most important source of industrial statistics in the country. It provides comprehensive data to assess and evaluate the changes in the growth, composition and structure of the industrial sector, comprising activities associated with or related to manufacturing processes, repair services, generation transmission etc., of electricity and gas and water supply undertakings. The survey is conducted annually under the statutory provisions of the Collection of Statistics Act, 1953 and the rules framed there-under in 1959. The field work of the survey is carried out by the Field Operation Division (FOD) of the National Sample Survey Organisation (NSSO). The Director, FOD is the Statistics Authority appointed under the above Act for the purpose of collection of these statistics and also for the successful execution of the survey. Copies of the Annual Survey of Industry returns submitted by the factories to the NSSO (FOD) are supplied to the State Statistical Bureau for the use of the State governments.

1.2 *Scope and Coverage.*—The survey covers broadly three types of units. The first type comprises factories registered under sections 2m (i) and 2m (ii) of the Factories Act 1948, which respectively refer to factories 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. Also included in this category are the repair services units incidental to manufacturing activities such as cold storages, repair of footwear and other leather goods, electrical repair shops and repair of other consumer durable items like watches, scooters, motor vehicles etc. The second type comprises electricity undertakings registered with the central electricity authority as well as the various gas and water supply undertakings irrespective of the number of workers employed therein. The third type comprises those beedi and cigar establishments which are registered under Beedi and Cigar Workers (Conditions of Employment) Act 1966. But the Annual Survey of Industries covers only units employing 10 or more workers using power and 20 or more workers not using power. The beedi and cigar establishments registered under the said act were listed in the Annual Survey of Industries frame at different points of time.

Though the factories registered under section 85 (i) of the factories Act, 1948 viz. laundry services, motion picture production, sanitary services etc. are also covered under the survey, these have been excluded from the tabulation and analysis. The oil storage and distribution units, restaurants and cases, establishments coming under the control of the Department of Defence Production and also the technical training institutes which are not engaged

in the production of any item for sale or exchange (even though these establishments, may be registered as factories under the Factories Act, 1948) are excluded from the purview of the survey.

The primary unit of enumeration in the survey is a factory in the case of manufacturing industries and repair services, an undertaking in the case of electricity, gas and water supply and an establishment in the case of beedi and cigar industries. The owner of two or more units located in the state and pertaining to the same industry group is permitted to furnish a single consolidated return. Such consolidated returns are a common feature in the case of electricity and certain public sector undertakings.

The Annual Survey of Industries frame is revised and updated once in every two years by the field staff of the NSSO who keep a close liaison with the state Chief Inspectors of Factory.

For the purposes of Annual Survey of Industries the factories in the frame are grouped into two sectors viz., census and non-census (or sample) sectors. While the factories employing 50 or more workers and using power and those employing 100 or more workers but not using power are grouped under the census sector, the remaining factories i.e. employing 10 to 49 workers and using power and those employing 20 to 99 workers but not using power constitute the non-census sector. The grouping of factories into census and non-census sectors is done on the basis of employment figures as recorded in the previous year's returns. Once a factory is classified into a census or a non-census sector, its status is not altered for a period of two years i.e., till the frame is revised afresh.

All the factories in the census sector, all the electricity undertakings irrespective of the number of workers employed therein and some of the factories from the non-census sector were enumerated completely in every year. The factories from the non-census sector which were completely enumerated belong to those industries in each of which the total number of factories did not exceed 50 at the all India level. One half of the factories in the remaining industry groups in the non-census sector are enumerated each year in rotation so as to achieve complete coverage of the non-census sector in a period of two consecutive years.

Reference period for Annual Survey of Industries 1980-81 was the financial year commencing on 1st April 1980 and for 1981-82 the financial year commencing on 1st April 1981. Information was accordingly collected for each year separately in the prescribed schedules from all the selected factories whose accounting year ended on any day during this period.

*Limitations.*—The data presented in this report relate to the factories which responded to the survey and those returns received from the NSSO (FOD). The factories which did not respond to the survey in the year 1980-81 and 1981-82 were 5% and 3% respectively of the total number of factories,

1.3 *Concepts and Definitions.*—1. *Reference year* for ASI 1980-81 is the accounting year of the factory ending on any day during the fiscal year 1980-81 i.e. 1st April 1980 to 31st March 1981. Similarly the reference year for ASI 1981-82 is the accounting year of the factory ending on any day during the fiscal year 1981-82.

2. *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 preceding 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.

3. *Gross value of plant and machinery* represents the total original (undepreciated) 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.

4. *Fixed capital* represents the depreciated value of fixed assets owned by the factory as 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.

5. *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, semifinished 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.

6. *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 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.

7. *Productive Capital* is the total of fixed capital and working capital.

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

9. *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.

10. *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.

11. *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.

12. *Employees* includes all workers defined above and persons receiving wages and holding positions of supervision or management, engaged in administrative office, store keeping section and welfare section, watch and ward staff, sales department as also those engaged in purchase of raw materials etc. or production of fixed assets for the factory.

13. *Total Persons engaged* 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. (Note: In summary reports published for 1973-74 to 1979-80 total person engaged was termed as employees).

The number of workers or employees is an average number obtained by dividing mandays worked (defined in para 14) 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 was carried on.

14. *Mandays* represent the total number of mandays worked and no 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).

15. *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 for work done during the accounting year. It include (a) direct wages and salary (i.e. basis wages; salaries, payment of overtime, dearness, compensatory, house rent and other allowances (b) remuneration for period not worked (i.e. basis wages, salaries and allowances payable for leave period, paid holiday, 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 (i.e. incentive bonuses, good attendance bonuses, productive bonuses, profit sharing bonuses, festival or year end bonuses etc.) It excludes lay off payment which are made from trust or other special funds set up expressly for this purpose i.e. 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 i.e. before deductions for fines, damages, taxes, provident fund, employees, state insurance contribution etc.

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

17. *Fuels 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 manufacture i.e. 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.

18. *Materials 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).

19. *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 last year and used for further manufacture during the accounting year and (e) purchase value of goods sold in the same condition as purchased.

20. *Products* are defined to include the ex-factory value (i.e. 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 the accounting year or entered into books. Also include fixed assets produced by the factory for its own use.

21. *Semi-Finished Goods* refer to the imputed 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.

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

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\* Represents the excess of value of semi-finished goods or work in progress at the end of the accounting year over that at the beginning of the year plus net balance of semi-finished fixed assets on factory's capital accounts.

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 by mean the same thing.

23. *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.

24. *Rent Paid* 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.)

25. *Interest Paid* 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.

26. *Net Income* represents the factory shares of employees and entrepreneur in the value added and is obtained by deducting the rent paid and interest paid (as defined above) from the value added.

1.4. *Summary results of the Survey.*—The Survey covered 2929 registered factories in the State during the year 1980-81 and 3178 factories in the year 1981-82. The position of certain important industrial characteristics are given below:—

#### *Annual Survey of Industries 1980-1981*

- (i) The total capital invested amounts to Rs. 1360 crores, including Rs. 796 crores in the form of fixed capital;
- (ii) total industrial employment was 281356 including 232628 workers;
- (iii) total emoluments paid to all employees amounted to Rs. 170 crores, including Rs. 104 crores given as wages and salaries to workers;
- (iv) total input was of the order of Rs. 1648 crores, while the total output amounted to Rs. 2092 crores;
- (v) the value added by manufacture was of the order of Rs. 390 crores;
- (vi) for every rupee invested, the units gave an output of Rs. 1.54 and a net value added by manufacture of Rs. 0.29; and
- (vii) the average investment per worker was Rs. 58 thousand and the value added by manufacture per workers was Rs. 17 thousand.

#### *Annual Survey of Industries 1981-1982*

- (i) the total capital invested in the registered factories amounts to Rs. 1488 crores, including Rs. 912 crores as fixed capital;
- (ii) the factories provided employment to 302389 persons including 251510 workers;

- (iii) total emoluments paid to all employees were of the order of Rs. 196 crores, including Rs. 126 crores disbursed as wages and salaries to workers;
- (iv) the total input was estimated at Rs. 1952 crores while the total output amounted to Rs. 2455 crores;
- (v) the value added by manufacture was of the order of Rs. 446 crores;
- (vi) it is seen that for every rupee invested, the factories give an output of Rs. 1.65 and a net value added by manufacture of Rs. 0.30; and
- (vii) the average investment per worker was Rs. 59 thousand and the value added by manufacture per worker was Rs. 18 thousand.

The principal aggregates of the registered factories in Kerala and India are given below:—

TABLE 1  
Principal aggregates 1980-81 and 1981-82

Sl. No.	Major characteristics	India			Kerala			
		Unit	1980-81	1981-82	Actuals 1980-81	1981-82	percentage to all India 1980-81 1981-82	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1.	Factories Responded	Nos.	96503	105037	2926	3178	3.03	3.03
2.	Fixed capital	Rs. crores	29900	34702	796	912	2.66	2.66
3.	Productive capital	"	43120	49757	1276	1291	2.96	2.60
4.	Invested capital	"	46881	53991	1360	1438	2.90	2.76
5.	Total inputs	"	47238	56949	1648	1952	3.49	3.43
6.	Gross output	"	61084	73672	2092	2455	3.42	3.33
7.	Value added	"	11929	14554	390	446	3.27	3.06
8.	Total employees	('000)	7715	7894	281	302	3.64	2.83
9.	Emoluments	Rs. crores	6096	6777	170	196	2.79	2.89

During the year 1980-81 and 1981-82 3.03% of the factories in the country were in Kerala while the corresponding percentage was 3.10 in 1979-80. Fixed capital, productive capital as well as invested capital in the State were less than 3.03% during the years under report. But it is seen, that the percentages of employees (3.64% and 3.83%) were on the higher side in the above periods. The total emoluments paid to factory employees in Kerala during the year 1980-81 and 1981-82 constituted only 2.79 per cent and 2.89 per cent respectively of the total emoluments of the factory sector of India. This indicates a less average annual earnings per employee of the factory sector of the State.



## CHAPTER 2

## REVIEW OF RESULTS

2.1. *Salient features.*—The results of the survey are presented in this chapter for the factory sector as a whole and also for the three sectors of economic activities viz. manufacturing, electricity and water supply and other repair services. This chapter contains structural ratios and technical co-efficient also.

Some of the principal characteristics of industrial development pertaining to the organised industrial sector (Factory Sector) of the State during the year 1979-80, 1980-81 and 1981-82 are depicted in table-2 given below:—

TABLE 2  
Salient Features

Sl. No.	Aggregates	Units	1979-80	1980-81	1981-82	Percentage increase	
						in 1980-81 over 1979-80	in 1981-82 over 1980-81
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Factories	No.	2947	2926	3178	(—)71	8.61
2.	Fixed capital	Rs. crores	793	796	912	0.38	14.57
3.	Working capital	„	312	480	379	53.85	(—)21.04
4.	Productive capital	„	1109	1276	1291	15.06	1.18
5.	Invested capital	„	1194	1360	1488	13.90	9.41
6.	Outstanding loan	„	821	993	1181	20.95	18.93
7.	Employees ('000) nos.		276	281	302	1.81	7.47
8.	Emoluments	Rs. crores	151	170	196	12.53	15.29
9.	Input	„	1232	1648	1952	33.77	18.45
10.	Output	„	1611	2092	2455	29.86	17.35
11.	Value Added	„	337	390	446	15.73	14.36
12.	Factory payments	„	104	134	127	27.88	(—)5.22
13.	Net income	„	234	256	319	9.40	24.61

The table reveals that though the percentage changes in the total number of factories and fixed capital are very small during the year 1980-81, the total working capital, invested capital and outstanding loans have shown an increase of 53.85%, 15.06%, 13.90% and 20.95% respectively while the increase in the number of employees and emoluments are of the order 1.81% and 12.55% respectively. The output and value added have also increased by 29.86% and 15.73% while the net income has shown an increase of 9.40% only over 1979-80.

During the year 1981-82 the number of factories covered by the survey increased by 8.61% and fixed capital by 14.57%. But the percentage increase in productive capital and invested capital are not so impressive while the working capital with the factory sector showed a sharp decreasing trend (—)21.04%. This was due to the decrease in the working capital with factories of two major group industries, namely '30—manufacture of rubber, plastic and petroleum products', and 37—manufacture of transport equipment and parts'. Total number of employees has risen by 7.47% and the emoluments by 15.29%. Input, output and value added have also increased during the period. It may be noted that unlike in the previous two years, the net income generated by the factory sector has increased by 24.61% during the year 1981-82.

2.2 *Selected aggregates by principal economic activities.*—The following table gives the relative shares, in absolute and percentage terms respectively, of some of the selected indicators of industrial sector among the three broad divisions of economic activities covered in the Annual Survey of Industries, namely manufacturing, electricity and water supply undertakings and repair services.

TABLE 3

## Selected Aggregates by Principal Economic Activity 1980-81

Sl. No.	Item	Units	Manufacturing		Electricity and water supply		Repair services		All industries	
			1980-81	1981-82	1980-81	1981-82	1980-81	1981-82	1980-81	1981-82
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1	Number of factories	Number	2805 (95.87)	3057 (96.19)	10 (0.34)	14 (0.44)	111 (3.79)	107 (3.37)	2926 (100.00)	3178 (100.00)
2	Fixed capital	Rs. in lakhs	45267.24 (57.59)	52826.81 (57.92)	33073.01 (42.08)	38093.29 (41.76)	261.40 (0.33)	290.12 (0.32)	78601.65 (100.00)	91210.22 (100.00)
3	Working capital	"	41792.53 (87.15)	31921.65 (84.14)	5978.21 (12.46)	5827.63 (15.36)	185.56 (0.39)	187.48 (0.50)	47956.30 (100.00)	37936.76 (100.00)
4	Productive capital	"	87059.77 (68.25)	84748.31 (65.62)	40051.23 (31.40)	43920.99 (34.01)	446.96 (0.35)	477.60 (0.37)	127557.96 (100.00)	129146.90 (100.00)
5	Employees	Numbers	245592 (87.31)	271308 (89.75)	29329 (10.43)	24485 (8.10)	6368 (2.26)	6516 (2.15)	281289 (100.00)	302389 (100.00)
6	Total enrolments	Rs. in lakhs	13350.27 (78.72)	15726.14 (80.17)	2919.69 (17.22)	3138.26 (16.00)	689.24 (4.06)	751.01 (3.83)	16959.20 (100.00)	19615.41 (100.00)
7	Total input	"	160476.88 (97.40)	190200.63 (97.44)	2885.07 (1.75)	3602.39 (1.84)	1403.61 (0.85)	1399.59 (0.72)	164765.56 (100.00)	195202.61 (100.00)
8	Total output	"	195759.34 (93.59)	230134.58 (93.87)	11146.16 (5.33)	12748.21 (5.19)	2255.70 (1.08)	2313.94 (0.94)	209161.20 (100.00)	245546.73 (100.00)
9	Value added	"	30876.24 (79.16)	35637.10 (79.90)	7299.69 (18.72)	8027.00 (18.02)	827.01 (2.12)	889.88 (2.00)	39002.94 (100.00)	44553.98 (100.00)
10	Factor of payment	"	7328.93 (54.99)	9526.30 (75.20)	5986.61 (44.92)	3198.80 (24.74)	11.58 (0.09)	8.02 (0.06)	13327.12 (100.00)	12668.12 (100.00)
11	Net income	"	23547.31 (91.71)	26110.80 (81.89)	1313.08 (5.11)	4893.20 (15.34)	815.43 (3.18)	881.86 (2.77)	25675.82 (100.00)	31885.86 (100.00)

Table-3 shows that during the year 1980-81 and 1981-82 about 96 per cent of the factories covered under the survey were engaged in manufacturing activities; about 3.5 per cent in repair services and a little less than 0.5 per cent in electricity and water supply undertakings. Electricity and water supply undertakings though few in number, accounted for about 42 per cent of the total fixed capital of the registered industrial sector which reflects the high degree of capital intensiveness of the sector. The manufacturing sector accounted for nearly 58 per cent of the fixed capital and the repair service a little less than 0.35 per cent.

During the year 1980-81 the manufacturing sector accounted for 93.59 per cent of total value of output which was produced by 87.31 per cent of the total employees. The share of electricity and water supply undertakings sector in gross output was 5.33 per cent and was produced by 10.43 per cent of total employees. The corresponding share of repair services in value of output was 1.08 per cent and this was produced by 2.26 per cent of employees.

During the year 1981-82, the manufacturing sector produced 93.87 per cent of total value of output, which was produced by 80.17 per cent of total employees of the factory sector. The share of electricity and water supply undertakings sector in the gross value of output was 5.19 per cent which was produced by 8.10 per cent of total employees. The share of repair service in gross output and number of employees during 1981-82 was almost the same as that of 1980-81.

2.3. *Structural ratios Technical Co-efficients.*—The structural ratios and technical co-efficients of the entire industrial sector for the years 1980-81 and 1981-82 are presented in table-4. Items one to six give per factory ratios and 7 to 11 give per employee ratios. Technical co-efficient are shown against items 12 to 15.

The structural ratios and technical co-efficients in respect of each of the main economic activities show that the repair service activities are favourable in the sense that the capital required to produce one unit value of gross output and net value added is lowest as compared to the activities of manufacturing sector or electricity and water supply undertakings. The capital required to produce one unit of net value added in the repair service sector is one-fifth of what is required in manufacturing sector and one fourteenth of the requirements in electricity and water supply undertakings. However, the share of labour in the total income (net value added) is the highest in repair service activities followed by manufacturing and electricity and water supply undertakings.

TABLE 4

## Annual survey of Industries 1980-81—1981-82, Structural Ratios and Technical Co-efficients

Sl. No.	Structural ratios technical co-efficients	Units	Manufacturing		Electricity and water supply		Repair services		All Industries	
			1980-81	1981-82	1980-81	1981-82	1980-81	1981-82	1980-81	1981-82
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1	Fixed capital per factory	Rs. in lakhs	16.14	17.28	3307.30	2720.93	2.35	2.71	26.86	28.70
2	Productive capital per factory	"	31.04	27.72	4005.10	3137.21	4.02	4.46	43.59	40.64
3	Gross output per factory	"	69.79	75.40	1114.60	910.57	20.32	21.62	71.48	77.26
4	Value added per factory	"	11.01	11.66	729.97	573.36	7.45	8.32	13.33	14.02
5	Workers per factory	No.	74	76	1973	1071	49	53	73	79
6	Employees per factory	"	88	89	2933	1749	57	61	96	95
	Fixed capital per employees	Rs.	18432	19465	112765	155578	4105	4452	27943	30163
8	Productive capital per employee		35449	31228	136558	179379	7019	7329	45349	42709
9	Gross output per employee		79709	84928	38004	52065	35422	35512	74358	81202
10	Value added per employee		12572	13131	24889	32783	12987	13657	13865	14734
11	Emoluments per employees	"	5436	5795	9955	12817	10823	11526	6029	6487
<i>Technical Co-efficient</i>										
12	Fixed capital to value added		1.47	1.48	4.53	4.75	0.32	0.33	2.02	2.05
13	Fixed capital to gross output		0.23	0.23	2.97	2.99	0.12	0.13	0.38	0.37
14	Value added to gross output		0.16	0.15	0.65	0.63	0.37	0.38	0.19	0.18
15	Emoluments to value added		0.43	0.44	0.40	0.39	0.83	0.84	1.43	0.44

The table-4 reveals that during the year 1980-81 an average factory in the state had a fixed capital of Rs. 26.86 lakhs and a productive capital of Rs. 43.59 lakhs. On an average it employed 96 persons on each working day and produced gross output worth Rs. 71.48 lakhs in the year. Value added per factory was Rs. 13.33 lakhs. An average factory in electricity and water supply undertakings worked with a fixed capital of Rs. 3307.30 lakhs and productive capital of Rs. 4005.10 lakhs. It employed 2933 persons and produced gross output worth Rs. 1114.60 lakhs. On the other hand an average factory in the repair service sector was working with a fixed capital of Rs. 2.35 lakhs. It employed 57 persons and produced output worth Rs. 20.32 lakhs. The value added per factory in the repair service sector was Rs. 7.45 lakhs. An employee in the registered industrial sector, on an average, was working with a fixed capital of Rs. 28 thousand and productive capital of Rs. 45 thousand. He produced output worth Rs. 74 thousand and received Rs. 6029 by way of total emoluments. Fixed capital (Rs. 1.15 lakh) and productive capital (Rs. 1.37 lakhs) per employee were the highest in electricity and water supply undertakings. Next to it was in the manufacturing sector. It may be seen from the table that the average fixed capital and productive capital required to employ one person in repair service is only Rs. 4105 and Rs. 7019 respectively. The highest gross output per employee was in manufacturing sector (Rs. 79709) followed by electricity and water supply undertakings (Rs. 38004) and repair services (Rs. 35422). Value added per employee was Rs. 24889 in electricity and water supply undertakings and it was just half in the other two sectors of activity. As in 1979-80 the average emoluments per employee was the highest (Rs. 10823) in repair service followed by electricity (Rs. 9955) and manufacturing sector (Rs. 5436).

During 1981-82 an average factory in the state was working with a fixed capital of Rs. 28.70 lakhs employed 95 persons on each working day and produced gross output worth Rs. 77.26 lakhs in an year. An employee in the factory sector was working with a fixed capital of Rs. 30 thousand and produced gross output worth Rs. 81 thousand and he earned Rs. 6487 annually. It can be seen from the table that during 1981-82 per factory ratios in electricity and productive capital per factory in manufacturing sector were less than the ratios of 1980-81. All the other ratios in 1981-82 in the three sectors of economic activity were higher than the ratios of 1980-81.

## STRUCTURAL CHARACTERISTICS OF ALL INDUSTRIES

The factories surveyed under Annual Survey of Industries 1980-81 and 1981-82 have been classified into three digit level of the National Industrial classification (NIC-70) and their important structural characteristics are presented in this chapter.

3.1 *Number of units.*—The following tables (table 5 & 6) show that in the year 1980-81, 2926 factories were covered under the survey. Out of this 728 units (24.88%) were in the census sector and 2198 (75.12%) were in the sample sector. In terms of number of units, during 1980-81 'sawing and planing of wood) other than plywood)', 'manufacture of bidi', 'cashewnut processing like drying, shelling, roasting, salting etc.', 'manufacture of structural clay products', 'manufacture of rubber products not elsewhere classified' and 'weaving and finishing of cotton in handlooms other than khadi' were the first six industries. These industries covered 54.31 per cent of the total factories in the state.

As many as 3178 factories were covered under the survey during the year 1981-82. 720 units (22.66%) were in the census sector and the remaining 2458 units (77.34%) were in the sample sector. It may be seen from the tables that the first six industries were the same as that of the previous year with a slight change in the position of two industries. During 1981-82 manufacture of structural clay products occupied the third position and cashewnut processing followed it. The above six industries covered 53.12 per cent of the total number of industries. During 1981-82, there were 27 industries having twenty or more units as against 23 industries during 1980-81.

TABLE 5

**Arrangement of Industries According to Number of  
Units ASI 1980-81**

Sl. No.	Code	Name of Industry	Number of units	Census sector units	Percentage to total
(1)	(2)	(3)	(4)	(5)	(6)
1	271	Sawing and planing of wood (other than plywood)	489	25	16.71
2	226	Manufacture of bidi	336	34	11.48
3	214	Cashewnut processing	268	216	9.16

(1)	(2)	(3)	(4)	(5)	(6)
4	320	Manufacture of structural clay products	256	56	8.75
5	302	Manufacture of rubber products not elsewhere classified	134	18	4.58
6	235	Weaving and finishing of cotton textiles in handlooms other than khadi	106	16	3.62
7	973	Repair of motor vehicles and motor cycle	99	31	3.38
8	212	Tea processing	84	50	2.87
9	268	Manufacture of coir and coir products	77	15	2.63
10	270	Manufacture of veneer and plywood	70	16	2.39
11	203	Canning preserving and processing of fish	67	15	2.29
12	285	Printing and publishing of books and journals	59	9	2.02
13	211	Manufacture of other edible oils	56	2	1.91
14	340	Manufacture of metal cans and tin plates	55	5	1.88
15	204	Manufacture of grain mill products	53	3	1.81
16	313	Manufacture of drugs and Medicines	38	6	1.30
17	288, 289 & 290	Printing, publishing and other activities not elsewhere classified	32	6	1.09
18	310	Manufacture of organic and inorganic Chemicals	31	11	1.06
19	231 &232	Cotton, spinning & weaving in mills	27	27	0.92
20	331	Foundries for casting and forging of Iron and steel	23	7	0.79
21	343	Manufacture of hand tools and general hardware	23	5	0.79



(1)	(2)	(3)	(4)	(5)	(6)
22	276 & 279	Manufacture of wooden furniture and fixtures	21	5	0.72
23	311	Manufacture of fertilizers and pesticides	20	4	0.68
		Other Industries	502	146	17.17
		All Industries	2926	728	100.00

TABLE 6

**Arrangements of Industries According to Number of  
Units ASI 1981-82**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of Industry</i>	<i>Number of Units</i>	<i>Census sector Units</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)	(6)
1.	271	Sawing and planing of wood (other than plywood)	557	19	17.53
2.	226	Manufacture of bidi	346	32	10.89
3.	320	Manufacture of structural clay products	277	55	8.72
4.	214	Cashewnut processing	269	217	8.46
5.	302	Manufacture of rubber products not elsewhere classified	131	20	4.12
6.	235	Weaving & finishing of cotton Textiles on handlooms	108	18	3.40
7.	973	Repair of motor vehicles and motor cycles	100	32	3.15
8.	212	Tea processing	89	53	2.80

(1)	(2)	(3)	(4)	(5)	(6)
9.	268	Manufacture of coir and coir products	73	15	2.30
10.	285	Printing and publishing of periodicals, books etc.	70	10	2.20
11.	203	Canning, preserving and processing of fish etc.	64	14	2.01
12.	270	Manufacture of veneer, plywood and their products	62	16	1.95
13.	340	Manufacture of fabricated metal products etc.	53	5	1.67
14.	204	Grain mill products	51	3	1.60
15.	211	Manufacture of other edible oils and fats	47	2	1.48
16.	313	Manufacture of drugs and medicines	47	7	1.48
17.	310	Manufacture of basic organic and inorganic chemicals	34	10	1.07
18.	289	Printing, publishing and allied activities not elsewhere classified	31	5	0.98
19.	341	Manufacture of structural metal products	31	3	0.98
20.	343	Manufacture of hand tools and general hardware	31	7	0.98
21.	231	Cotton, Spinning, Weaving and finishing of cotton textiles in mills	25	23	0.78
22.	331	Casting and forging of iron and steel	25	5	0.78
23.	311	Manufacture of fertilizers and pesticides	22	4	0.69
24.	360	Manufacture of electrical industrial machinery and apparatus	22	8	0.69

(1)	(2)	(3)	(4)	(5)	(6)
25.	276	Manufacture of wooden furniture and fixtures	21	4	0.66
26.	359	Manufacture and repair of non-electrical machinery	21	1	0.66
27.	370	Ship building and repairing	20	5	0.63
		Other industries	551	127	17.34
		All Industries	3178	720	100.00

3.2. *Fixed Capital.*—From table 7 it can be seen that, as in the previous year, during 1980-81 also, the fixed capital investment was the highest in generation and transmission of electric energy with Rs. 338 crores (42.49% of the total fixed capital). The second and third places were occupied by 'manufacture of fertilizers and pesticides' and 'ship and boat building and repairing industries'. The fixed capital investments in the above three industries were 64.68% of the total fixed capital investment in the factory sector. The above three industries, cotton spinning, weaving etc., in cotton textile mills, manufacture of basic industrial chemicals, tyre and tube industries and manufacture of pulp, paper and paper board (the first seven industries in table 7) shared nearly 78% of the total fixed capital. It may be noted that these seven groups of industries accounted only 4.24% of the total number of factories covered under the survey. During the year there were 39 groups of industries with fixed capital of Rs. 2 crores and above.

Table 8 reveals that as in the previous year, during 1981-82 also, generation and transmission of electric energy stood first with Rs. 374 crores (40.97%) of fixed capital investment. This industry together with ship and boat building and repairing and manufacture of fertilizers and pesticides covered 60.23% of the total fixed capital investment in the factory sector. The first seven industries during the year 1981-82 were the same as that of the previous year and it covered 75.37% of the total fixed capital and 4.25% of the total number of factories covered under the survey. These were 42 groups of industries with fixed capital of Rs. 2 crores and above.

It has been noticed that during 1980-81 and 1981-82 these were only 10 groups of industries with more than 1% share of the total fixed capital investment in each industry and the others had only less than 1% share of the total fixed capital. The industries are arranged in the descending order of fixed capital investment in table, 7 and 8.

TABLE 7

## Arrangement of industries according to fixed capital 1980-81

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Fixed Capital (Rs. lakhs)</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1	40	Generation, transmission and distribution of electric energy	33818.58	42.49
2	311	Manufacture of fertilizers and pesticides	8863.47	11.14
3	370	Ship and boat building and repairing	8790.48	11.05
4	231	Cotton spinning, weaving etc. of cotton textiles in mills	3196.59	4.02
5	310	Manufacture of basic industrial organic and inorganic chemicals	2566.49	3.23
6	300	Tyre and tube industries	2544.46	3.20
7	280	Manufacture of pulp, paper and paper board	1966.83	2.47
8	316	Manufacture of turpentine	1131.62	1.42
9	367	Manufacture of electric components and accessories	1075.57	1.35
10	360	Manufacture of electrical industrial machinery apparatus and parts	845.06	1.06
11	239	Cotton textiles not elsewhere classified	716.34	0.90
12	335	Manufacture of aluminium	683.43	0.86
13	302	Manufacture of rubber products—others	641.81	0.81
14	320	Manufacture of structural clay products	629.46	0.79
15	212	Tea processing	566.27	0.71
16	203	Cannig and processing of fish	538.91	0.68
17	357	Manufacture of machine tools	526.48	0.66
18	314	Manufacture of perfumes and lotions	514.82	0.65

(1)	(2)	(3)	(4)	(5)
19	364	Manufacture of radio and television	495.32	0.62
20	270	Manufacture of veneers and plywood	491.81	0.62
21	285	Printing and publishing of books and journals	443.48	0.56
22	313	Manufacture of drugs and medicines	384.23	0.48
23	380	Manufacture of medical and surgical equipments	372.54	0.47
24	362	Manufacture of dry and wet batteries	370.61	0.46
25	211	Manufacture of other edible oils	327.13	0.41
26	330	Iron and steel industries	325.65	0.41
27	220	Distilling and blending of spirits	316.46	0.40
28	214	Cashewnut processing	296.80	0.37
29	268	Manufacture of coir and coir products	293.13	0.36
30	271	Saw mills	278.07	0.34
31	329	Manufacture of miscellaneous non-metallic mineral products	275.34	0.35
32	420	Water supply—collection, purification and distribution of water	254.43	0.32
33	284	Printing and publishing of newspaper	250.08	0.31
34	340	Manufacture of fabricated metal products such as metal cans	242.91	0.30
35	361	Manufacture of insulated wires and cables	241.93	0.30
36	331	Foundries for casting and forging iron & steel	234.60	0.39
37	973	Repair of motor vehicles & motor cycle	228.27	0.29
38	261	Manufacture of all types of threads, cordage, ropes etc.	225.32	0.28
39	288	Book binding	220.75	0.28
		Other industries	3416.12	4.28
		All Industries	79601.65	100.00

TABLE 3

## Arrangements of industries according to fixed capital 1981-82

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Fixed capital (Rs. in lakh)</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1	400	Generation and transmission of electricity	37373.11	40.97
2	370	Ship and boat building and repairing	9281.17	10.18
3	311	Manufacture of fertilizer and pesticides	8284.03	9.08
4	280	Manufacture of paper and paper boards	5028.30	5.51
5	310	Manufacture of basic organic and inorganic chemicals	3254.54	3.57
6	231	Cotton spinning, weaving etc. of cotton textiles in mills	3174.49	3.48
7	300	Tyre and tube industries	2370.19	2.60
8	316	Manufacture of turpentine etc.	1574.43	1.73
9	367	Manufacture of electronic components and accessories not elsewhere classified	1141.10	1.25
10	360	Manufacture of electrical industrial machinery and apparatus and parts	1049.03	1.15
11	302	Manufacture of other rubber products	814.96	0.89
12	420	Collection, purification and distribution of water	720.18	0.79
13	357	Manufacture of machine tools, parts and accessories	653.97	0.73
14	320	Manufacture of structural clay products	658.68	0.72
15	324	Manufacture of Cement, lime and Plaster	635.40	0.70

(1)	(2)	(3)	(4)	(5)
16	212	Tea processing	619.30	0.70
17	340	Manufacture of fabricated metal products	482.47	0.53
18	313	Manufacture of drugs and medicines	446.98	0.49
19	203	Canning, preserving and processing of fish etc.	426.43	0.47
20	284	Printing and publishing of newspapers	413.60	0.45
21	263	Manufacture of electrical apparatus, appliances and parts	409.03	0.45
22	380	Manufacture of medical, surgical and scientific equipments	402.06	0.44
23	271	Sawing and planing of woods	401.82	0.44
24	285	Printing and publishing of periodicals, books etc.	390.17	0.43
25	335	Aluminium manufacturing	368.19	0.40
26	361	Manufacture of insulated wires and cables	365.78	0.40
27	239	Cotton textiles not elsewhere classified	350.19	0.39
28	330	Iron and steel industries	353.35	0.38
29	268	Manufacture of coir and coir products	327.05	0.36
30	270	Manufacture of veneer, plywood and their products	323.69	0.35
31	264	Manufacture of all types of textiles, garments	289.11	0.32
32	214	Cashewnut processing	278.29	0.30
33	343	Manufacture of hand tools and general hardware	272.57	0.30
34	329	Manufacture of miscellaneous non-metal mineral products	264.12	0.29
35	973	Repair of motor vehicles and motor cycles	250.99	0.27

(1)	(2)	(3)	(4)	(5)
36	291	Manufacture of footwear (excluding repair)	240.57	0.26
37	220	Distilling, rectifying and blending of spirits	236.32	0.26
38	289	Printing, publishing and allied activities not elsewhere classified	225.93	0.25
39	315	Manufacture of inedible oils	225.42	0.25
40	321 & 323	Manufacture of chinaware and porcelain ware	220.70	0.24
41	331	Foundries for casting and forging iron & steel	215.12	0.24
42	319	Manufacture of chemical products not elsewhere classified	211.01	0.23
		Other Industries	6168.38	6.76
		All Industries	91210.22	100.00

The main constituents of fixed capital like land and building, plant and machinery etc. in the census, sample and factory sectors as revealed by the Annual Survey of Industries 1980-81 and 1981-82 are given in Table 9 and 10.

TABLE 9

**Important constituents of fixed capital Annual Survey of Industrial 1980-81 (Net closing balance)**

Sl. No.	Items	Fixed capital assets (Rs. in lakhs)					
		Census sector		Sample sector		Total	
		Value	percentage	Value	percentage	Value	percentage
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Land	1949.77 (2.59)	79.26	510.05 (11.57)	20.74	2459.82 (3.09)	100.00
2	Improvement to and	4454.04 (5.92)	99.52	21.63 (0.49)	0.48	4475.67 (5.62)	100.00



(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
3	Building	8660.50 (11.52)	86.67	1332.40 (30.23)	13.33	9992.90 (12.55)	100.00
4	Plant and machinery	28833.84 (38.34)	93.69	1941.09 (44.05)	6.31	30774.93 (38.65)	100.00
5	Transport equipment	717.52 (0.95)	74.79	241.90 (5.49)	25.21	959.42 (1.21)	100.00
6	Tools and other fixed assets	21896.18 (29.12)	98.65	300.00 (6.81)	1.35	22196.16 (27.88)	100.00
7	Assets under construction	8694.22 (11.56)	99.32	59.87 (1.36)	0.68	8754.09 (11.00)	100.00
Total		75206.08 (100.00)	94.46	4406.91 (100.00)	5.54	79612.99 (100.00)	100.00

Figures in brackets indicate percentages.

TABLE 10

**Important constituents of fixed capital Annual Survey of Industries, 1981-82 (Net closing balance)**

Sl. No.	Items	Fixed capital assets (Rs. in lakhs)					
		Census sector		sample sector		Total	
		Value	Percentage	Value	Percentage	Value	Percentage
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Land	2196.49 (2.61)	78.13	614.86 (8.90)	21.87	2811.35 (3.08)	100.00
2	Improvement to land	4648.93 (5.50)	98.28	81.30 (1.18)	1.72	4730.23 (5.19)	100.00
3	Building	9311.14 (11.05)	84.01	1772.03 (25.64)	15.99	11083.17 (12.15)	100.00

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
4	Plant and machinery	28625.62 (33.96)	88.56	3696.01 (53.49)	11.44	32321.63 (35.44)	100.00
5	Transport equipment	848.57 (1.01)	76.07	266.98 (3.86)	23.93	1115.55 (1.22)	100.00
6	Tools and other fixed assets	24065.11 (28.55)	98.39	393.65 (5.70)	1.61	24458.76 (26.81)	100.00
7	Assets under construction	14604.39 (17.32)	99.42	85.09 (1.23)	0.58	14689.48 (16.11)	100.00
Total		84300.26 (100.00)	92.42	6909.91 (100.00)	7.58	91210.17 (100.00)	100.00

Figures in brackets indicate percentages.

The above tables reveal that plant and machinery is the most important constituent of fixed capital, both in the census sector and sample sector. It accounted for 38.34 per cent of fixed capital in the census sector, 46.24 per cent in sample sector and 38.65 per cent in the combined factory sector. It would be seen that whereas the ratio of plant and machinery to the total fixed capital varies very little in the census and sample sector, it varies considerably in the case of other assets mentioned in the table.

3.3 *Working Capital.*—The working capital investment in the factory sector during the year 1980-81 was estimated at Rs. 480 crores as against 312 crores during the previous year. The working capital utilization was the highest in 'ship and boat building and repairing' with Rs. 69 crores (14.48% of the total) followed by 'generation and transmission of electric energy' with Rs. 60 crores (12.45%) and manufacture of fertilizers and pesticides with Rs. 49 crores (10.23%). There were 34 groups of industries with working capital of Rs. 2 crores and above. Out of these, 14 industries had 2 or more than 2% share of the total working capital and they together formed 67.64% of the total working capital of the factories covered under the survey. Five industries had share of working capital between one and two percentage of the total and each of the remaining industries had only below one per cent share of the total working capital.

The working capital investment in the factory sector was Rs. 379 crores during 1981-82. In 1981-82 considerable decrease in working capital was noticed in 'ship and boat building and repairing industry' of the state. Generation transmission and distribution of electric energy, manufacture of fertilizers and pesticides, and manufacture of basic industrial organic and

Inorganic chemicals were the first three industries with 16.35%, 11.22% and 5.93% share of total working capital, respectively. As in the previous year, during 1981-82 also there were 34 groups of industries with working capital of Rs. 2 crores and above. Out of these 13 Industries had working capital share between 2% and 15% of the total, eleven industries had working capital share between 1% and 2% and the rest had working capital below 1%.

The industries during the year 1980-81 and 1981-82 are arranged in the descending order of working capital and are presented in table 11 and 12.

TABLE 11  
Arrangements of industries according to working capital  
1980-81

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Working capital (Rs. in lakhs)</i>	<i>Percentage to Total</i>
(1)	(2)	(3)	(4)	(5)
1.	370	Ship and boat building and repairing	6944.58	14.48
2.	400	Generation and transmission of electric energy and distribution of electric energy to household, industrial, commercial and other users where classified (except house furnishing)	5973.31	12.45
3.	311	Manufacture of fertilizers and pesticides	4909.64	10.23
4.	231	Cotton spinning, weaving, shrinking sanforizing mercersing and finishing of cotton textiles in mills	1990.18	4.15
5.	310	Manufacture of basic and industrial organic and inorganic chemicals	1931.70	4.03
6.	214	Cashewnut processing	1608.09	3.35
7.	300	Tyre and tube industries	1405.46	2.93
8.	364	Manufacture of radio and television	1341.33	2.80
9.	280	Manufacture of paper and paper board	1251.49	2.61
10.	335	Aluminium manufacturing	1096.20	2.29

(1)	(2)	(3)	(4)	(5)
11.	360	Manufacture of transformers and electricals	1088.83	2.27
12.	314	Manufacture of perfumes and lotions	977.88	2.04
13.	261	Manufacture of all types of threads	962.03	2.01
14.	212	Tea processing	959.11	2.00
15.	361	Manufacture of insulated wires	814.69	1.70
16.	302	Manufacture of rubber products & others	653.13	1.36
17.	270	Manufacture of veneers and plywood	630.68	1.32
18.	357	Manufacture of machine tools	552.41	1.15
19.	367	Manufacture of electric components and accessories	513.73	1.08
20.	320	Manufacture of structural clay products	421.49	0.88
21.	380	Manufacture of medical and surgical equipments	399.07	0.83
22.	211	Manufacture of other edible oils	399.00	0.83
23.	313	Manufacture of drugs and medicines	364.91	0.76
24.	284	Printing and publishing of newspapers	350.13	0.73
25.	271	Sawing and planing of wood	332.91	0.69
26.	330	Iron and steel industries	305.80	0.64
27.	220	Distilling, rectifying and blending of spirits	297.45	0.62
28.	268	Manufacture of coir and coir products	292.73	0.61
29.	235	Weaving and finishing of textiles handlooms	278.10	0.58
30.	285	Printing and publishing of books and journals	259.56	0.54
31.	329	Manufacture of non-metallic mineral products	210.36	0.44
32.	340	Manufacture of fabricated metal products	209.06	0.44
33.	217	Manufacture of starch	208.56	0.44
34.	205	Manufacture of bakery products	207.16	0.43
		Other industries	7815.54	16.29
		All industries	47956.30	100.00

TABLE 12

**Arrangements of industries according to working capital  
1981-82**

Sl. No.	Code	Name of industry	Working capital (Rs. in lakhs.)	Percentage to Total
(1)	(2)	(3)	(4)	(5)
1.	400	Generation, transmission and distribution of electric energy	5821.98	15.35
2.	311	Manufacture of fertilizers and pesticides	4254.51	11.22
3.	310	Manufacture of basic industrial organic and inorganic chemicals	2250.83	5.93
4.	214	Cashewnut processing like drying, shelling, roasting, salting etc.	2151.17	5.67
5.	370	Ship and boat building and repairing	2006.62	5.29
6.	280	Manufacture of pulp, paper and paper board including newsprint	1546.40	4.03
7.	231	Cotton spinning, weaving, shrinking, sanforizing etc.	1397.38	3.68
8.	264	Manufacture of all type of textiles, garments including wearing apparals	1130.34	2.98
9.	360	Manufacture of electrical industrial machinery and apparatus and parts	1104.84	2.91
10.	361	Manufacture of insulated wires and cables	962.04	2.54
11.	314	Manufacture of perfumes and lotions	928.24	2.45
12.	212	Tea processing	909.55	2.40
13.	335	Aluminium manufacturing	819.34	2.16
14.	268	Manufacture of coir and coir products	739.58	1.95
15.	340	Manufacture of fabricated metal products	702.31	1.85
16.	302	Manufacture of rubber products	695.90	1.83
17.	357	Manufacture of machine tools	685.57	1.81

(1)	(2)	(3)	(4)	(5)
18.	367	Manufacture of Electronic components	633.48	1.67
19.	270	Manufacture of veneer and plywood	539.85	1.42
20.	313	Manufacture of drugs and medicines	509.15	1.34
21.	330	Iron and steel industries	462.98	1.22
22.	284	Printing and publishing of news papers	459.00	1.21
23.	320	Manufacture of structural clay products	452.85	1.19
24.	364	Manufacture of radio and television transmitting	393.89	1.04
25.	220	Distilling, rectifying and blending of spirits	354.22	0.93
26.	316	Manufacture of turpentine and synthetic resins	338.27	0.89
27.	271	Sawing and planing of wood	337.26	0.89
28.	285	Printing and publishing of periodicals	297.15	0.78
29.	211	Manufacture of other edible oils and fats	269.35	0.71
30.	329	Manufacture of miscellaneous non-metallic mineral products	253.78	0.67
31.	206	Manufacture and refining of sugar	244.51	0.65
32.	289	Printing, publishing and allied activities	226.05	0.60
33.	376	Manufacture of bicycles cycle-rickshaws and parts	224.88	0.59
34.	235	Weaving and finishing of cotton textiles in handlooms other than khadi	224.28	0.59
		Other industries	3609.21	9.51
		All industries	37936.76	100.00

3.4 *Productive Capital.*—The productive capital is the total of fixed capital and working capital. The total productive capital utilisation during 1980-81 and 1981-82 were estimated at Rs. 1276 crores and 1291 crores respectively. As in the previous years, during the years under review also productive capital investment was the highest in generation and transmission of electric energy. (The above industry), ship and boat building and repairing, manufacture of fertilizers and chemicals shared 51 to 53% of the total productive capital in the factory sector. During the year 1980-81 there

were 40 groups of industries with productive capital investment of Rs. 3 crores and above as against 46 groups in 1981-82. There were sixteen groups of industries during 1980-81 with more than 1% share each in productive capital as against seventeen industries during 1981-82. The Industries with productive capital of Rs. 3 crores and above are arranged in descending order of magnitude in table 13 & 14.

TABLE 13  
Arrangements of industries according to productive  
capital 1980-81

Sl. No.	Code	Name of industry	Productive capital (Rs. in lakhs)	Percentage to Total
(1)	(2)	(3)	(4)	(5)
1.	400	Generation and transmission of electrical	39791.89	31.19
2.	370	Ship building and repairing	15735.06	12.33
3.	311	Manufacture of fertilizers and pesticides	13773.11	10.80
4.	231	Cotton spinning and weaving in mills	5186.77	4.07
5.	310	Manufacture of organic and inorganic Chemicals	4498.19	3.53
6.	300	Tyre and tube industries	3949.92	3.10
7.	280	Manufacture of paper and paper board	3218.32	2.51
8.	360	Manufacture of transformers and electricals	1933.90	1.52
9.	214	Cashewnut processing	1904.89	1.49
10.	364	Manufacture of radio and television	1836.65	1.44
11.	335	Aluminium manufacturing	1779.64	1.40
12.	367	Manufacture of electric components and accessories	1589.30	1.25
13.	212	Tea processing	1525.38	1.20
14.	314	Manufacture of perfumes & lotions	1492.70	1.17
15.	316	Manufacture of turpentine	1316.39	1.03
16.	302	Manufacture of rubber products & others	1294.93	1.02
17.	261	Manufacture of all types of threads	1187.35	0.93

(1)	(2)	(3)	(4)	(5)
18.	270	Manufacture of veneer and plywood	1122.49	0.88
19.	357	Manufacture of machine tools	1078.89	0.85
20.	361	Manufacture of insulated wires and cables	1056.61	0.83
21.	320	Manufacture of structural clay products	1050.95	0.82
22.	239	Cotton textiles not elsewhere classified	843.26	0.66
23.	380	Manufacture of medical and surgical equipments	771.61	0.60
24.	313	Manufacture of drugs and medicines	749.14	0.59
25.	211	Manufacture of other edible oils	726.13	0.57
26.	285	Printing and publishing of books and journals	703.04	0.55
27.	330	Iron and steel industries	631.45	0.50
28.	220	Distilling, rectifying and blending of spirits	613.91	0.48
29.	271	Sawing and planing of wood	610.98	0.48
30.	284	Printing and publishing of newspapers	600.21	0.47
31.	268	Manufacture of coir and coir products	585.86	0.46
32.	329	Manufacture of non-metallic mineral products	485.70	0.38
33.	340	Manufacture of fabricated metal products	451.97	0.35
34.	235	Weaving and finishing of textiles handlooms	433.22	0.34
35.	331	Casting and forging of iron and steel	379.62	0.30
36.	973	Repair of motor vehicles and motor cycle	378.59	0.30
37.	288	Book binding	326.53	0.26
38.	205	Manufacture of bakery products	319.41	0.25
39.	217	Manufacture of starch	311.25	0.24
40.	315	Manufacture of inedible oils	300.26	0.23
		Other industries	11012.51	8.63
		All industries	127557.98	100.00



TABLE 14

**Arrangements of industries according to productive capital  
1981-82**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Productive Capital (Rs. in lakhs)</i>	<i>Percentage to Total</i>
(1)	(2)	(3)	(4)	(5)
1.	400	Generation, transmission and distribution of electric energy	43195.09	33.45
2.	311	Manufacture of fertilizers and pesticides	12538.54	9.71
3.	370	Ship and boat building and repairing	11287.78	8.74
4.	280	Manufacture of pulp, paper and paper board including newsprint	6574.70	5.09
5.	310	Manufacture of basic industrial organic and in organic chemicals	5505.37	4.26
6.	231	Cotton spinning, weaving, shirinking, sanforizing etc.	4571.86	3.54
7.	300	Tyre and tube industries	2436.50	1.89
8.	214	Cashewnut processing like drying, shelling, roasting, salting etc.	2429.46	1.88
9.	360	Manufacture of electrical industrial machinery and apparatus and parts	2153.87	1.67
10.	316	Manufacture of turpentine, synthetic resins	1912.70	1.48
11.	367	Manufacture of electronic components	1774.58	1.37
12.	314	Manufacture of perfumes, cosmetics, lotions etc.	1563.64	1.21
13.	212	Tea processing	1528.85	1.18
14.	302	Manufacture of rubber products not elsewhere classified	1510.86	1.17
15.	264	Manufacture of all types of textiles	1419.44	1.10
16.	357	Manufacture of machine tools	1349.54	1.04
17.	361	Manufacture of insulated wires and cables	1327.82	1.03
18.	335	Aluminium manufacturing	1187.53	0.92

(1)	(2)	(3)	(4)	(5)
19.	340	Manufacture of fabricated Metal products	1184.78	0.92
20.	320	Manufacture of structural clay products	1111.53	0.86
21.	268	Manufacture of coir and coir products	1066.63	0.83
22.	313	Manufacture of drugs and medicines	956.13	0.74
23.	284	Printing and publishing of newspapers	872.60	0.68
24.	270	Manufacture of veneer, plywood	863.42	0.67
25.	330	Iron and steel industries	816.33	0.63
26.	271	Sawing and planing of wood	739.08	0.57
27.	420	Water supply, collection, purification and distribution of water	725.90	0.56
28.	285	Printing and publishing of periodicals	687.32	0.53
29.	220	Distilling, rectifying and blending of spirit	590.54	0.46
30.	380	Manufacture of medical, surgical and scientific equipments	568.30	0.44
31.	329	Manufacture of miscellaneous non-metallic mineral products	517.90	0.40
32.	363	Manufacture of electrical apparatus	509.55	0.40
33.	203	Canning, preservation and processing of fish	486.03	0.38
34.	364	Manufacture of radio and television	481.33	0.37
35.	289	Printing, publishing and allied activities	451.98	0.35
36.	211	Manufacture of other edible oils and fats	425.77	0.33
37.	973	Repair of motor vehicles and motor cycles	417.17	0.32
38.	206	Manufacture and refining of sugar	415.14	0.32
39.	239	Cotton textiles, not elsewhere classified	407.42	0.31
40.	323	Manufacture of chinaware and porcelainware	401.33	0.31
41.	331	Foundries for casting and forging iron and steel	385.13	0.30
42.	343	Manufacture of hand tools and general hardware	375.73	0.29

(1)	(2)	(3)	(4)	(5)
43.	376	Manufacture of bicycles, cycle-rickshaws and parts	366.80	0.28
44.	235	Weaving and finishing of cotton textiles	360.49	0.28
45.	319	Manufacture of chemical products	344.82	0.27
46.	315	Manufacture of inedible oils	329.81	0.26
		Other industries	8019.81	6.21
		All industries	129146.90	100.00

3.5 *Invested Capital*.—Invested capital is the total of fixed capital and physical working capital. The total invested capital in the factory sector during the year 1980-81 and 1981-82 were estimated at Rs. 1360 crores and 1488 crores respectively. During 1980-81, 'generation and transmission of electric energy', 'ship and boat building and repairing' and 'manufacture of fertilizers and pesticides' had a total invested capital of Rs. 699 crores (51.42% of the total). But in 1981-82 the estimated invested capital of these industries was Rs. 742 crores (49.85% of the total). There were 39 industries in 1980-81 with invested capital of Rs. 3 crores and above as against 45 groups in 1981-82. These industries are arranged in the descending order of magnitude in table 15 and 16.

TABLE 15

**Arrangement of industries according to invested capital  
1980-81**

Sl. No	Code	Name of industry	Invested capital (Rs. in lakhs)	Percentage to total
(1)	(2)	(3)	(4)	(5)
1	400	Generation and transmission of electric energy	40787.30	29.99
2	370	Ship and boat building and repairing	14730.94	10.83
3	311	Manufacture of fertilizers and pesticides	14423.36	10.60

(1)	(2)	(3)	(4)	(5)
4	231	Cotton, spinning and weaving in mills	5529.56	4.07
5	310	Manufacture of organic and inorganic chemicals	4363.02	3.21
6	300	Tyre and tube industries	3739.00	2.75
7	280	Manufacture of paper and paper board	3653.88	2.69
8	335	Aluminium manufacturing	2597.22	1.91
9	214	Cashewnut processing	2319.81	1.71
10	360	Manufacture of transformers and electricals	1958.39	1.44
11	314	Manufacture of perfumes and lotions	1860.94	1.37
12	364	Manufacture of radio and television	1742.95	1.28
13	212	Tea processing	1639.60	1.21
14	302	Manufacture of rubber products others	1539.96	1.13
15	367	Manufacture of electric components	1473.41	1.08
16	357	Manufacture of machine tools	1457.97	1.07
17	239	Cotton textiles not elsewhere classified	1358.70	1.00
18	316	Manufacture of turpentine	1336.14	0.98
19	270	Manufacture of veneers and plywood	1278.42	0.94
20	361	Manufacture of insulated wires and cables	1249.19	0.92
21	261	Manufacture of all types of threads	1191.44	0.88
22	211	Manufacture of other edible oils	1183.21	0.87
23	320	Manufacture of structural clay products	1054.14	0.78
24	268	Manufacture of coir and coir products	947.08	0.70
25	380	Manufacture of medical and surgical equipments	931.50	0.68
26	203	Canning and processing of fish	885.93	0.65
27	313	Manufacture of drugs and medicines	749.50	0.55
28	362	Manufacture of dry and wet batteries	719.15	0.53
29	220	Distilling and blending of spirits	635.83	0.47

(1)	(2)	(3)	(4)	(5)
30	330	Iron and steel industries	604.04	0.44
31	271	Saw mills	602.58	0.44
32	285	Printing and publishing of books and journals	593.47	0.44
33	331	Casting and forging of iron and steel	514.53	0.38
34	284	Printing and publishing of newspapers	512.91	0.37
35	340	Manufacture of metal cane and tin plate	464.37	0.34
36	329	Manufacture of non-metallic mineral products	424.80	0.31
37	235	Weaving and finishing of textiles in handloom	403.70	0.30
38	973	Repair of motor vehicles	334.55	0.24
39	288	Printing of pictures and post cards	305.95	0.23
		Other industries	13908.87	10.22
		All industries	136007.31	100.00

TABLE 16

**Arrangement of industries according to invested capital  
1981-82**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Invested capital (Rs. in lakhs)</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1	400	Generation transmission and distribution of electric energy	45625.13	30.66
2	311	Manufacture of fertilizers and pesticides	14510.53	9.75
3	370	Ship and boat building and repairing	14051.31	9.44
4	280	Manufacture of pulp, paper and paper board including news print	8067.45	5.42
5	231	Cotton spinning, weaving and finishing of textiles in mills	5491.06	3.69

(1)	(2)	(3)	(4)	(5)
6	310	Manufacture of basic industrial organic and inorganic chemicals	5302.63	3.56
7	214	Cashewnut processing like drying, shelling etc.	3459.93	2.33
8	300	Tyre and tube industries	3381.59	2.27
9	316	Manufacture of turpentine, synthetic resins etc.	2264.68	1.52
10	360	Manufacture of electrical industrial machinery and apparatus and parts	2166.87	1.46
11	314	Manufacture of perfumes, cosmetics, lotions and other toilet preparations	2117.55	1.42
12	357	Manufacture of machine tools their parts and accessories	1753.38	1.18
13	302	Manufacture of rubber products not elsewhere classified	1746.48	1.17
14	367	Manufacture of electronic components and accessories not elsewhere classified	1672.25	1.12
15	264	Manufacture of all types of textiles, garments	1399.39	0.94
16	361	Manufacture of insulated wires and cables	1393.14	0.94
17	212	Tea processing	1381.80	0.93
18	335	Aluminium manufacturing	1266.18	0.85
19	320	Manufacture of structural clay products	1151.03	0.77
20	340	Manufacture of fabricated metal products	1143.97	0.77
21	268	Manufacture of coir and coir products	1067.85	0.72
22	380	Manufacture of medical, surgical and scientific equipment	995.07	0.67
23	313	Manufacture of drugs and medicines	962.69	0.65
24	270	Manufacture of veneer, plywood and their products	944.06	0.63
25	284	Printing and publishing of news paper	823.18	0.55
26	271	Sawing and planing of wood	810.05	0.54

(1)	(2)	(3)	(4)	(5)
27	363	Manufacture of electrical apparatus, appliances and their parts such as lamps, bulbs etc.	768.02	0.52
28	203	Canning, preservation and processing of fish, crustacean and similar foods	735.03	0.49
29	420	Water supply, collection, purification and distribution	725.88	0.49
30	330	Iron and steel industries	699.22	0.47
31	220	Distilling, rectifying and blending of spirits	583.74	0.39
32	239	Cotton textiles not elsewhere classified	559.14	0.38
33	211	Manufacture of other edible oils and fats	544.92	0.37
34	343	Manufacture of hand tools and general hardware	537.89	0.36
35	285	Printing and publishing of periodicals, books atlases etc.	533.95	0.36
36	364	Manufacture of radio and television transmitting and receiving sets including radio tape recorders etc.	486.65	0.33
37	331	Foundries for casting and forging iron and steel	479.40	0.32
38	329	Manufacture of miscellaneous non-metallic mineral products such as slate products silica products	458.02	0.31
39	206	Manufacture and refining of sugar	457.98	0.31
40	235	Aluminium manufacturing	386.01	0.26
41	973	Repair of motor vehicles & motor cycles	377.14	0.25
42	289	Printing publishing and allied activities not elsewhere classified	368.38	0.25
43	376	Manufacture of bicycles and cycle rickshaws	363.80	0.24
44	315	Manufacture of edible oils	307.77	0.21
45	291	Manufacture of footwear (excluding repair)	300.00	0.20
		Other industries	14195.71	9.54
		All industries	148819.95	100.00

3.6 *Outstanding loans.*—The total estimated loans outstanding against the factory sector of the State on 31st March 1981 and 31st March 1982 were estimated at Rs. 993 crores and 1181 crores respectively. These loans were about 125% and 130% of the fixed capital of the factories of the respective years. During these years the percentage of the loans were the highest in generation and transmission of Electricity. Table 17 (31st March 1981) shows that the outstanding loans in the first five industries, namely, generation and transmission of electric energy, manufacture of fertilizers and pesticides, ship and boat building and repairing, tyre and tube industries and cashewnut processing were 65.33 percent of the total loans. But it may be noted that the number of factories engaged in this industry formed only 11.11 percent of the total number of factories in the State. It may be seen from table 18 that the outstanding loans against the first five industries as on 31st March 1982 formed 64.33 percent of the total loans and 'manufacture of pulp, paper and paper board including newsprint industry' occupied the second place with 13.02 percent of the total outstanding loans. During 1980-81, this industry stood at the 15th place with 0.87% of the total loans. This increase in loan was due to the increase in the number of responding unit, especially in the census sector of the factories. On 31st March 1981 there were 38 groups of industries in the State with outstanding loans of Rs. 2 crores and above and out of these in 11 groups of industries the loans were Rs. 10 crores and above. But on 31st March 1982 the number of industries with loans of Rs. 2 crores and above, increased from 38 to 39 and the industries with loans of Rs. 10 crores and above, increased from eleven to fourteen. The industries of the year 1980-81 and 1981-82 are arranged in the descending order of outstanding loans in table 17 and 18.

TABLE 17

**Arrangement of Industries according to outstanding loans  
as on 31st March, 1981**

Sl. No.	Code	Name of industry	Outstanding loans (Rs. in lakhs)	Percentage to total
(1)	(2)	(3)	(4)	(5)
1.	400	Generation and transmission of electric energy	35747.70	36.00
2.	311	Manufacture of fertilizers and pesticides	14041.16	14.14
3.	370	Ship and boat building and repairing	7115.59	7.17
4.	300	Tyre and tube industries	4538.51	4.57



(1)	(2)	(3)	(4)	(5)
5.	214	Cashewnut processing	3423.50	3.45
6.	231	Cotton spinning and weaving in mills	3093.40	3.12
7.	310	Manufacture of organic and inorganic chemicals	2963.61	2.96
8.	360	Manufacture of transformers and electricals	1828.29	1.84
9.	314	Manufacture of perfumes and lotions	1435.79	1.45
10.	302	Manufacture of rubber products	1224.13	1.23
11.	367	Manufacture of electric components	1190.13	1.20
12.	364	Manufacture of radio and television	960.56	0.97
13.	239	Cotton textiles	933.85	0.94
14.	203	Canning and processing of fish	909.60	0.92
15.	280	Manufacture of pulp, paper and paper board	860.73	0.87
16.	270	Manufacture of veneers and plywood	828.32	0.83
17.	361	Manufacture of insulated wires and cables	817.97	0.82
18.	268	Manufacture of coir and coir products	664.17	0.67
19.	330	Iron and steel industries	637.77	0.64
20.	320	Manufacture of structural clay products	577.15	0.58
21.	284	Printing and publishing of news papers	500.28	0.50
22.	357	Manufacture of machine-tools	491.54	0.50
23.	331	Cotton spinning and weaving in mills	480.57	0.48
24.	212	Tea processing	458.57	0.46
25.	335	Aluminium manufacturing	451.01	0.45
26.	313	Manufacture of drugs and medicines	430.72	0.43
27.	380	Manufacture of medical and surgical equipments	401.73	0.42
28.	323	Manufacture of chinaware and porcelainware	394.48	0.40
29.	220	Distilling, rectifying and blending of spirits	391.37	0.39

(1)	(2)	(3)	(4)	(5)
30.	285	Printing and publishing of books and journals	365.95	0.37
31.	217	Manufacture of starch	320.65	0.32
32.	343	Manufacture of hand tools and general hardware	298.45	0.50
33.	235	Weaving and finishing of textiles, handlooms	271.47	0.27
34.	340	Manufacture of fabricated metal products	257.89	0.26
35.	362	Manufacture of dry and wet batteries	359.09	0.36
36.	973	Repair of motor vehicles	334.55	0.34
37.	271	Sawing and planing of wood	245.28	0.25
38.	211	Manufacture of other edible oils	225.13	0.23
		Other industries	8820.75	8.88
		All industries	99291.41	100.00

TABLE 18

**Annual Survey of Industries According to outstanding Loans 1981-82**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>outstanding loan (Rs. in lakhs)</i>	<i>percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1.	400	Generation, transmission and distribution of electric energy	41171.67	34.84
2.	280	Manufacture of pulp, paper and paper board including newsprint	15379.61	13.02
3.	311	Manufacture of fertilizers and pesticides	7873.82	6.66
4.	370	Ship and boat building and repairing	7304.33	6.18

(1)	(2)	(3)	(4)	(5)
5.	300	Tyre and tube industries	4291.56	3.63
6.	214	Cashewnut processing like drying, shelling etc.	3974.45	3.36
7.	231	Cotton spinning, weaving and finishing of cotton textiles in mills	3687.71	3.12
8.	310	Manufacture of basic industrial organic and inorganic chemicals	3334.10	2.82
9.	360	Manufacture of electrical industrial machinery and apparatus and parts	2134.15	1.80
10.	314	Manufacture of perfumes, cosmetics, lotions and other toilet preparations	1555.89	1.32
11.	357	Manufacture of machine tools their parts and accessories	1533.57	1.30
12.	367	Manufacture of electronic components and accessories not elsewhere classified	1343.42	1.14
13.	309	Manufacture of rubber products not elsewhere classified	1294.90	1.10
14.	361	Manufacture of insulated wires and cables	999.67	0.85
15.	380	Manufacture of medical, surgical and scientific equipments	905.26	0.77
16.	316	Manufacture of turpentine synthetic resins, etc.	879.41	0.74
17.	203	Canning, preservation and processing of fish, crustacean and similar foods	835.01	0.71
18.	270	Manufacture of veneer, plywood and their products	825.80	0.70
19.	284	Printing and publishing of news papers	790.17	0.67
20.	268	Manufacture of coir and coir products	721.24	0.61
21.	323	Manufacture of chinaware and porcelainware	640.42	0.54
22.	343	Manufacture of hand tools and general hardware	625.49	0.53
23.	330	Iron and steel industries	617.04	0.52

(1)	(2)	(3)	(4)	(5)
24.	313	Manufacture of drugs and medicines	607.71	0.51
25.	363	Manufacture of electrical apparatus, appliances and their parts such as lamps, bulbs etc.	588.53	0.50
26.	320	Manufacture of structural clay products	517.45	0.44
27.	271	Sawing and planing of wood	461.98	0.39
28.	376	Manufacture of bicycles, cycle-ricks-haws and parts	438.01	0.37
29.	206	Manufacture and refining of sugar	412.53	0.35
30.	211	Manufacture of other edible oils and fats	363.11	0.31
31.	420	Water supply, collection, purification and distribution	339.31	0.29
32.	239	Cotton textiles not elsewhere classified	329.48	0.28
33.	291	Manufacture of footwear except vulcanised or moulded rubber or plastic footwear	327.88	0.28
34.	340	Manufacture of fabricated metal products	317.13	0.27
35.	285	Printing and publishing of periodicals, books, atlases etc.	291.12	0.25
36.	235	Weaving and finishing of cotton textiles in handlooms other than khadi	261.52	0.22
37.	331	Foundries for casting and forging iron and steel	241.97	0.21
38.	219	Manufacture of food products not elsewhere classified	236.76	0.20
39.	202	Canning and preservation of fruits and vegetables	211.71	0.18
		Other industries	9484.98	8.02
		All industries	118149.87	100.00

3.7 *Workers and employment.*—The total number of persons employed in the factory sector during 1980-81 were 281356. Of these, 282628 (82.68%) were workers engaged exclusively in the production and/or repair service and the remaining 48728 (17.32%) were 'other employees' including supervisory, managerial, clerical and auxiliary staff, working proprietors and unpaid family workers. As against this, the corresponding figures of 1979-80

were 275943, 225820 and 50123 respectively indicating thereby an increase of about 1.02% in each of these cases in 1980-81.

The total number of 'mandays worked' by all employees during the year 1980-81 was 634.10 lakhs against 645.28 lakhs during 1979-80 showing thereby a decrease of 1.73 per cent during the year 1980-81.

It may be seen from the table 19 that as in the previous years, the number of workers as well as employees were the highest in cashewnut processing industry during 1980-81 also. This industry together with generation transmission of electric energy, manufacture of bidi, cotton spinning and weaving in mills, manufacture of structural clay products and sawing and planing of wood absorbed 66.92% of the total workers and 63.76% of the total employees of the factory sector. There were 29 groups of industries with more than 1000 workers and 41 groups of industries with more than 1000 employees.

The industries are arranged in the descending order of number of workers/employees in table No. 19, 20, 21 and 22.

The table 22 reveals that 302389 persons were employed in the factory sector during 1981-82. Of these, 251510 (83.17%) were worker and the remaining 50879 (16.83%) were other employees. It shows an increase 7.84% in the case of all employees, 8.12% in the case of workers and 4.41% in the case of other employees. The total number of mandays worked by all employees during the year 1981-82 was 658.45 lakhs compared to 634.10 lakhs during the previous year showing an increase of 3.84% over the year:

Cashewnut processing industry stands first during the year 1981-82 also with 40.68% of total workers and 37.14% of the total employees. There were 32 groups of industries with more than 1000 workers and 39 groups of industries with more than 1000 employees. These industries are arranged in the descending order of the number of workers/employees in tables 19 & 20, 21 & 22.

TABLE 19

**Arrangement of industries According to number of Workers 1980-1981**

Sl. No.	Code	Name of industry	Number of workers	Percentage to total
(1)	(2)	(3)	(4)	(5)
1.	214	Cashewnut processing	86544	37.20
2.	400	Generation and transmission of electric energy	19517	8.39

(1)	(2)	(3)	(4)	(5)
3.	226	Manufacture of bidi	18473	7.94
4.	231	Cotton, spinning and weaving in mills	12043	5.18
5.	320	Manufacture of structural clay products	11016	4.74
6.	271	sawing and planing of wood	8063	3.47
7.	212	Tea processing	4619	1.99
8.	973	Repair of motor vehicles and motor cycles	4254	1.83
9.	302	Manufacture of rubber-products-others	4244	1.82
10.	235	Weaving and finishing of textiles in handlooms	4218	1.81
11.	311	Manufacture of fertilizers and pesticides	4110	1.77
12.	310	Manufacture of organic and inorganic chemicals	3029	1.30
13.	270	Manufacture of veneers and plywoods	2939	1.26
14.	285	Printing and publishing of books and journals	2914	1.25
15.	280	Manufacture of paper and paper board	2594	1.12
16.	268	Manufacture of coir and coir products	2232	0.96
17.	360	Manufacture of transformers and electricals	2091	0.90
18.	261	Manufacture of all types of threads	1965	0.84
19.	379	Manufacture of transport equipment	1717	0.74
20.	370	Ship building and repairing	1655	0.71
21.	357	Manufacture of machine tools	1590	0.68
22.	314	Manufacture of perfumes and lotions	1586	0.68
23.	203	Canning and processing of fish	1534	0.66
24.	300	Tyre and tube industries	1450	0.62
25.	313	Manufacture of drugs and medicines	1369	0.59
26.	979	Repair enterprises	1217	0.52
27.	335	Aluminium manufacturing	1161	0.50

(1)	(2)	(3)	(4)	(5)
28.	284	printing and publishing of newspapers	1108	0.48
29.	205	Manufacture of bakery products	1082	0.47
		Other industries	22294	9.58
		All industries	232628	100.00

TABLE 20

**Arrangement of industries according to number of workers  
1981-82**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Number of workers</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1.	214	Cashewnut processing like drying, shelling etc.	102336	40.68
2.	226	Manufacture of bidi	20811	8.27
3.	400	Generation, transmission and distribution of electric energy	14671	5.83
4.	320	Manufacture of structural clay products	11503	4.57
5.	231	Cotton spinning, weaving, shrinking and finishing of cotton textiles in mills	10994	4.37
6.	271	Sawing and planing of wood	8563	3.41
7.	212	Tea processing	4611	1.83
8.	302	Manufacture of rubber products not elsewhere classified	4445	1.77
9.	973	Repair of motor vehicles and motor cycles	4442	1.77
10.	311	Manufacture of fertilizers and pesticides	4336	1.72
11.	235	Weaving and finishing of cotton textiles in handlooms other than khadi	4274	1.70
12.	280	Manufacture of pulp, paper and paper board including newsprint	3694	1.47

(1)	(2)	(3)	(4)	(5)
13.	310	Manufacture of basic industrial organic and inorganic chemicals	3674	1.46
14.	270	Manufacture of veneer, plywood and their products	3054	1.21
15.	285	Printing and publishing of periodicals, books, maps, etc.	2838	1.13
16.	360	Manufacture of electrical industrial machinery and apparatus and parts	2462	0.98
17.	357	Manufacture of machine tools their parts and accessories	2407	0.96
18.	264	Manufacture of all types of textiles, garments including wearing apparels	2371	0.94
19.	316	Manufacture of turpentine, synthetic resins plastic materials and synthetic fibres	2168	0.86
20.	376	Manufacture of bicycles, cycle rickshaws and parts	2136	0.85
21.	268	Manufacture of coir and coir products	1906	0.76
22.	314	Manufacture of perfumes, cosmetics and other toilet preparations	1544	0.61
23.	370	Ship and boat building and repairing	1529	0.61
24.	313	Manufacture of drugs and medicines	1488	0.59
25.	300	Tyre and tube industries	1469	0.58
26.	203	Canning, preservation and processing of fish and similar foods	1368	0.54
27.	343	Manufacture of handtools and general hardwares	1221	0.49
28.	284	Printing and publishing of newspapers	1196	0.48
29.	323	Manufacture of chinaware and porcelainware	1183	0.47
30.	979	Repair enterprises not elsewhere classified	1123	0.45
31.	206	Manufacture and refining of sugar	1120	0.45
32.	362	Manufacture of dry and wet batteries	1004	0.40
		Other industries	19569	7.77
		All industries	251510	100.00



TABLE 21

**Arrangement of industries according to total number of  
employees 1980-81**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Total Number of employees</i>	<i>Percentage to total employees</i>
(1)	(2)	(3)	(4)	(5)
1.	214	Cashewnut processing	95886	34.08
2.	400	Generation and transmission of electric energy	29070	10.33
3.	226	Manufacture of beedi	19072	6.78
4.	231	Cotton, spinning and weaving in mills	13270	4.72
5.	320	Manufacture of structural clay products	12471	4.43
6.	271	Saw mills	9593	3.41
7.	311	Manufacture of fertilizers and pesticides	6012	2.14
8.	302	Manufacture of rubber products others	5351	1.90
9.	212	Tea processing	5145	1.83
10.	973	Repair of motor vehicles and motor cycle	4998	1.78
11.	235	Weaving and finishing of textiles in handlooms	4845	1.72
12.	310	Manufacture of organic and inorganic chemicals	4179	1.49
13.	270	Manufacture of veneers and plywoods	3795	1.35
14.	285	Printing and publishing of books and journals	3528	1.25
15.	280	Manufacture of paper and paper board	3301	1.17
16.	360	Manufacture of transformers and electricals	2882	1.02
17.	357	Manufacture of machine tools	2862	1.02
18.	370	Ship building and repairing	2661	0.95
19.	268	Manufacture of coir and coir products	2651	0.94
20.	203	Canning and processing of fish	2364	0.84

(1)	(2)	(3)	(4)	(5)
21.	261	Manufacture of all types of threads	2346	0.83
22.	300	Tyre and tube industries	2213	0.79
23.	239	Cotton textiles not elsewhere classified	2066	0.73
24.	313	Manufacture of drugs and medicines	2049	0.73
25.	284	Printing and publishing of newspapers	2016	0.72
26.	379	Manufacture of transport equipment and parts	1988	0.71
27.	314	Manufacture of perfumes and lotions	1971	0.70
28.	335	Aluminium manufacturing	1687	0.60
29.	205	Manufacture of bakery products	1661	0.59
30.	979	Repair enterprises	1370	0.49
31.	380	Manufacture of medical and surgical equipments	1307	0.46
32.	364	Manufacture of radio and television	1294	0.46
33.	316	Manufacture of turpentine	1269	0.45
34.	361	Manufacture of insulated wires and cables	1159	0.41
35.	211	Manufacture of other edible oils and fats	1150	0.41
36.	362	Manufacture of dry and wet batteries	1141	0.41
37.	340	Manufacture of fabricated metal products	1123	0.40
38.	343	Manufacture of hand tools	1104	0.39
39.	288	Book binding	1083	0.38
40.	323	Manufacture of chinaware	1021	0.36
41.	331	Casting and forging of iron and steel	1009	0.36
		Other industries	15393	5.47
		All Industries	281356	100.00

TABLE 22

**Arrangement of industries according to total number of  
Employees 1981-82**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of Industry</i>	<i>Total number of employees</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1.	214	Cashewnut processing like drying, shelling etc.	112304	37.14
2.	400	Generation, transmission and distribution of electric energy	24114	7.97
3.	226	Manufacture of beedi	21408	7.08
4.	320	Manufacture of structural clay products	12866	4.26
5.	231	Cotton spinning, weaving, shrinking and finishing of cotton textiles in mills	12137	4.01
6.	271	Sawing and planing of wood	9947	3.29
7.	311	Manufacture of fertilizers and pesticides	6263	2.07
8.	302	Manufacture of rubber products not elsewhere classified	5585	1.85
9.	973	Repair of motor vehicles and motor cycles	5169	1.71
10.	212	Tea processing	5150	1.70
11.	310	Manufacture of basic industrial organic and inorganic chemicals	5107	1.69
12.	235	Weaving and finishing of cotton textiles in handlooms other than khadi	4929	1.63
13.	280	Manufacture of pulp, paper and paper board including newsprint	4863	1.61
14.	357	Manufacture of machine tools, their parts and accessories	3867	1.28

(1)	(2)	(3)	(4)	(5)
15.	270	Manufacture of veneer, plywood and their parts	3792	1.25
16.	285	Printing and publishing of periodicals books, maps etc.	3514	1.16
17.	360	Manufacture of electrical industrial machinery and apparatus and parts	3400	1.12
18.	316	Manufacture of turpentine, synthetic resins plastic materials and synthetic fibres	2908	0.96
19.	264	Manufacture of all types of textiles, garments including wearing apparels	2758	0.91
20.	268	Manufacture of coir and coir products	2694	0.89
21.	370	Ship and boat building and repairing	2601	0.86
22.	376	Manufacture of bicycles, cycle-rickshaws and parts	2536	0.84
23.	203	Canning, preservation and processing of fish and similar foods	2276	0.75
24.	313	Manufacture of drugs and medicines	2250	0.74
25.	284	Printing and publishing of newspaper	2134	0.71
26.	300	Tyre and tube industries	2116	0.70
27.	314	Manufacture of perfumes, cosmetics and other toilet preparations	1978	0.65
28.	206	Manufacture and refining of sugar	1730	0.57
29.	343	Manufacture of hand tools and general hardwares	1524	0.50
30.	323	Manufacture of china ware and porcelain ware	1476	0.49
31.	380	Manufacture of medical, surgical and scientific equipments	1439	0.48
32.	367	Manufacture of electronic, components and accessories not elsewhere classified	1415	0.47

(1)	(2)	(3)	(4)	(5)
33.	362	Manufacture of dry and wet batteries	1354	0.45
34.	340	Manufacture of fabricated metal products	1307	0.43
35.	979	Repair enterprises not elsewhere classified	1259	0.42
36.	289	Printing, publishing and allied activities not elsewhere classified	1163	0.39
37.	361	Manufacture of insulated wires and cables	1155	0.38
38.	335	Aluminium manufacturing	1108	0.37
39.	239	Cotton textiles not elsewhere classified	1078	0.36
		Other industries	17715	5.86
		All industries	302389	100.00

3.8. *Wages and Emoluments.*—Total emoluments constitute wages, salaries, bonus and imputed value of benefits in kind paid to all the persons employed in the factories. A total sum of Rs. 169.59 crores was paid as emoluments to all employees during 1980-81 of which Rs. 104.18 crores were paid as wages to workers and the remaining 65.41 crores represented payments to 'other employees', bonus and imputed value of benefits in kind. There had been an increase of 12.13% in the case of total emoluments and 22.12% in the case of wages paid to workers over the year 1979-80. The highest amount of wages/emoluments paid was in electricity undertakings. During the year 1980-81, there were 27 groups of industries with wages paid to workers Rs. one crore and above and 36 groups of industries with emoluments paid to the employees Rs. one crore or more. They are presented in the descending order of magnitude in table 23, 25.

During 1981-82 the total estimated amount of emoluments in the factory sector was Rs. 196.15 crores of which Rs. 126.09 crores were wages paid to the workers and Rs. 70.06 crores, represented payments to 'other employees', bonus and imputed value of benefits in kind. There had been an increase of 15.60% in total emoluments and 21.02% in wages paid to workers over the year 1980-81. As in the previous year, the highest amount of wages/emoluments paid was in electricity undertakings. In 29 groups of industries, Rs. one crore and above were paid as wages to workers and in 42 groups

of industries Rs. one crore and above were paid as emoluments to its employees. These are presented in the descending order of magnitude in table 24/26.

TABLE 23

**Arrangement of industries according to wages given to workers-1981-82**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of Industry</i>	<i>Total number of employees</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1.	400	Generation and transmission and distribution of electric energy	1448.57	13.91
2.	231	Cotton spinning and weaving in mills	944.49	9.07
3.	311	Manufacturing of fertilizers and pesticides	598.34	5.74
4.	214	Cashewnut processing	582.64	5.59
5.	320	Manufacture of structural clay products	522.14	5.01
6.	226	Manufacture of beedi	498.47	4.79
7.	280	Manufacture of paper and paper board	443.79	4.26
8.	310	Manufacture of organic and basic inorganic chemicals	443.69	4.26
9.	973	Repair of motor vehicles and motor cycles	404.42	3.88
10.	261	Manufacture of all types of threads	223.53	2.15
11.	360	Manufacture of transformers and electricals	221.62	2.13
12.	302	Manufacture of rubber products	202.11	1.94
13.	247	Spinning and weaving of other textiles	200.67	1.93
14.	285	Printing and publishing of books and journals	183.20	1.76
15.	271	Saw mills	179.66	1.73
16.	370	Ship building and repairing	176.39	1.69
17.	379	Manufacture of transport equipments	169.58	1.63
18.	335	Aluminium manufacturing	167.32	1.61
19.	300	Tyre and tube industries	165.53	1.56
20.	217	Manufacture of starch	157.29	1.51

(1)	(2)	(3)	(4)	(5)
21.	314	Manufacture of perfumes and lotions	155.41	1.49
22.	270	Manufacture of veneer and plywood	154.45	1.48
23.	357	Manufacture of machine tools	149.76	1.44
24.	316	Manufacture of turpentine	148.63	1.43
25.	235	Weaving and finishing of textiles-handlooms	147.34	1.41
26.	284	Printing and publishing of newspapers	111.13	1.07
27.	979	Repair enterprises	103.60	0.99
		Other industries	1513.85	14.54
		All industries	10417.62	100.00

TABLE 24

**Arrangement of Industries according to wages given to workers 1981-82**

Sl.No.	Code	Name of Industry	Wages to workers (Rs. in lakhs)	Percentage to total
(1)	(2)	(3)	(4)	(5)
1.	400	Generation, transmission and distribution of electric energy	1735.79	13.76
2.	231	Cotton spinning, weaving, shrinking of cotton textiles in mills	1283.12	10.18
3.	214	Cashewnut processing like drying, shelling, salting etc.	705.42	5.60
4.	311	Manufacture of fertilizers and pesticides	683.52	5.42
5.	320	Manufacture of structural clay products	683.26	5.42
6.	226	Manufacture of beedi	618.75	4.90
7.	310	Manufacture of basic industrial organic and inorganic chemicals	543.58	4.31
8.	280	Manufacture of pulp, paper and paper board including newsprint	489.04	3.88

(1)	(2)	(3)	(4)	(5)
9.	973	Repair of motor vehicles and motor cycles	477.02	3.78
10.	316	Manufacture of turpentine, synthetic resins, teryline except glass etc.	307.93	2.44
11.	264	Manufacture of all types of textiles, garments including wearing apparals	288.30	2.29
12.	360	Manufacture of electrical industrial machinery and apparatus and parts	281.14	2.23
13.	302	Manufacture of rubber products not elsewhere classified	273.19	2.17
14.	357	Manufacture of machine tools, their parts and accessories	229.64	1.82
15.	285	Printing and publishing of periodicals, books, maps etc.	215.86	1.71
16.	376	Manufacture of bicycles, cycle-rickshaws and parts	207.45	1.64
17.	370	Ship and boat building and repairing	201.72	1.60
18.	271	Sawing and planing of wood	199.85	1.58
19.	300	Tyre and tube industries	190.38	1.51
20.	314	Manufacture of perfumes, cosmetics, lotions and other toilet preparations	186.14	1.48
21.	212	Tea processing	179.83	1.43
22.	270	Manufacture of veneer, plywood and their products	175.87	1.39
23.	235	Weaving and finishing of cotton textiles in handlooms other than khadi	168.88	1.34
24.	335	Aluminium manufacturing	155.59	1.23
25.	284	Printing and publishing of newspapers	130.58	1.04
26.	363	Manufacture of electrical apparatus, appliances and their parts	109.27	0.87
27.	979	Repair enterprises not elsewhere classified	104.95	0.83



(1)	(2)	(3)	(4)	(5)
28.	380	Manufacture of medical, surgical and scientific equipments	104.25	0.83
29.	313	Manufacture of drugs and medicines	104.01	0.83
		Other industries	1575.19	12.49
		All industries	12608.52	100.00

TABLE 25

**Arrangement of Industries according to total Emoluments  
1980-81**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of Industry</i>	<i>Total emoluments (Rs. in lakhs)</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1.	400	Generation and transmission of electrical energy	2890.64	17.05
2.	231	Cotton spinning and weaving in mills	1271.43	7.50
3.	214	Cashewnut processing	961.65	5.67
4.	311	Manufacture of fertilizers and pesticides	924.06	5.45
5.	310	Manufacture of organic and inorganic chemicals	772.58	4.56
6.	320	Manufacture of structural clay products	723.41	4.27
7.	280	Manufacture of paper and paper board	652.57	3.85
8.	226	Manufacture of beedi	566.34	3.34
9.	973	Repair of motor vehicles	553.60	3.26
10.	360	Manufacture of transformers and electricals	381.90	2.25
11.	370	Ship building and repairing	366.61	2.16
12.	357	Manufacture of machine tools	338.88	2.00

(1)	(2)	(3)	(4)	(5)
13.	302	Manufacture of rubber products	331.58	1.96
14.	261	Manufacture of all types of threads	302.99	1.79
15.	239	Cotton textiles not elsewhere classified	300.09	1.77
16.	335	Aluminium manufacturing	292.55	1.73
17.	300	Tyre and tube industries	277.89	1.64
18.	270	Manufacture of veneer and plywood	266.78	1.57
19.	284	Printing and publishing of newspapers	260.14	1.52
20.	285	Printing and publishing of books and journals	254.14	1.50
21.	314	Manufacture of perfumes and lotions	246.53	1.45
22.	271	Saw mills	241.86	1.43
23.	212	Tea processing	237.89	1.40
24.	316	Manufacture of turpentine	231.50	1.37
25.	379	Manufacture of transport equipments	205.83	1.21
26.	235	Weaving and finishing of textiles	203.54	1.20
27.	361	Manufacture of insulated wires and cables	189.45	1.12
28.	313	Manufacture of drugs and medicines	179.73	1.06
29.	380	Manufacture of medical and surgical equipments	159.04	0.94
30.	268	Manufacture of coir and coir products	158.32	0.92
31.	330	Iron and steel industries	146.70	0.86
32.	979	Repair enterprises	135.64	0.80
33.	362	Manufacture of dry and wet batteries	133.75	0.79
34.	364	Manufacture of radio and television	127.08	0.75
35.	205	Manufacture of bakery products	118.48	0.70
36.	331	Casting and forging of iron and steel	111.57	0.66
		Other industries	1442.46	8.50
		All Industries	16959.20	100.00

TABLE 26

**Arrangement of Industries according to total emoluments  
1981-82**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Total emoluments (Rs. in lakhs)</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1.	400	Generation transmission and distribution of electric energy	3098.77	15.80
2.	231	Cotton spinning, weaving, shrinking of cotton textiles in mills	1201.11	6.12
3.	311	Manufacture of fertilizers and pesticides	1139.71	5.81
4.	214	Cashewnut processing like drying, shelling, salting etc.	1092.59	5.57
5.	310	Manufacture of basic industrial organic and inorganic chemicals	972.99	4.96
6.	320	Manufacture of structural clay products	905.24	4.62
7.	280	Manufacture of pulp, paper and paper board including newsprint	842.94	4.30
8.	226	Manufacture of beedi	710.64	3.62
9.	973	Repair of motor vehicles and motor cycles	610.47	3.11
10.	316	Manufacture of turpentine, synthetic resins, terylene except glass etc.	499.57	2.55
11.	360	Manufacture of electrical industrial machinery and apparatus and parts	496.37	2.53
12.	357	Manufacture of machine tools, their parts and accessories	481.96	2.46
13.	370	Ship and boat building and repairing	447.15	2.28
14.	302	Manufacture of rubber products not elsewhere classified	414.14	2.11
15.	264	Manufacture of all types of textiles, garments including wearing apparals	387.11	1.97

(1)	(2)	(3)	(4)	(5)
16.	284	Printing and publishing of news papers	313.81	1.60
17.	285	Printing and publishing of periodicals, books, journals maps etc.	306.43	1.56
18.	300	Tyre and tube industries	297.94	1.52
19.	270	Manufacture of veneer, plywood and their products	293.77	1.50
20.	314	Manufacture of perfumes, cosmetics lotions and other toilet preparations	290.28	1.48
21.	376	Manufacture of bicycles, cycle-rickshaws and parts	271.90	1.39
22.	212	Tea processing	266.26	1.36
23.	271	Sawing and planing of wood	256.44	1.31
24.	335	Aluminium manufacturing	255.46	1.30
25.	235	Weaving and finishing of cotton textiles in handlooms other than khadi	243.71	1.24
26.	361	Manufacture of insulated wires and cables	232.03	1.18
27.	313	Manufacture of drugs and medicines	207.10	1.06
28.	380	Manufacture of medical, surgical and scientific equipment	202.50	1.03
29.	363	Manufacture of electrical apparatus, appliances and their parts	184.21	0.94
30.	268	Manufacture of coir and coir products	174.65	0.89
31.	330	Iron and steel industries	163.22	0.83
32.	323	Manufacture of chinaware and porcelain-ware	135.71	0.69
33.	979	Repair enterprises not elsewhere classified	133.99	0.68
34.	206	Manufacture and refining of sugar	132.04	0.67
35.	367	Manufacture of electronic components and accessories not elsewhere classified	132.01	0.67

(1)	(2)	(3)	(4)	(5)
36.	203	Canning, preservation and processing of fish and similar foods	127.31	0.65
37.	340	Manufacture of fabricated metal products	121.99	0.62
38.	343	Manufacture of handtools and general hardware	109.60	0.56
		Other industries	1462.29	7.46
All industries			19615.41	100.00

The table 27 given below indicates employment, mandays worked and certain important ratios derived there from, separately for census, sample and factory sectors.

TABLE 27

**Employment and some important ratios Annual Survey  
of Industries 1981-82**

Sector	Units covered No.	Total employees No.	Workers No.	Mandays worked No. '000	Average employment per unit		Mandays worked per year per employees Nos.
					Employees Nos.	Workers Nos.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Census	720 (22.66)	238236 (78.78)	197646 (78.58)	48664 (73.91)	331	275	204
Sample	2458 (77.34)	64153 (21.22)	53864 (21.42)	17181 (26.09)	26	22	268
Total	3178 (100.00)	302389 (100.00)	251510 (100.00)	65845 (100.00)	95	79	217

(Figures in brackets indicate percentage to total)

The above table shows that:—

- (i) Out of the 251510 workers in the factory sector, 197646 workers (78.58%) were engaged in the census sector, which forms only 22.66 per cent of the factory sector, while the remaining 53864 workers (21.42%) were employed in the sample sector constituting 77.34% of the factory sector.
- (ii) The per unit employment of workers in the census sector was 275 combined to 22 workers in the sample sector and 79 in the factory sector.
- (iii) The share of census and sample sector factories in the total mandays worked in the factory sector was 73.91% and 26.09% respectively and
- (iv) Mandays worked per employee per year in the census sector was 204 as compared to 268 in the sample sector and 217 in the combined factory sector.

The total emoluments paid to all employees, wages paid to workers and some important derived ratios have been given below for the year 1980-81 and 1981-82.

TABLE 28

**Emoluments, wages and some derived ratios Annual Survey  
of Industries 1980-81**

<i>Sector</i>	<i>Number of units</i>	<i>Total emolu- ments (Rs. in lakhs)</i>	<i>Average emolu- ments per employees (Rs.)</i>	<i>Total salaries and wages (Rs. in lakhs)</i>	<i>Average wages per worker (Rs.)</i>	<i>Average emolu- ments per Mandays (Rs.)</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Census	727 (24.85)	14408 (84.93)	6541	8692 (83.40)	4799	30.56
Sample	2199 (75.15)	2557 (15.07)	4185	1731 (16.60)	3360	15.72
Total	2926 (100.00)	16965 (100.00)	6030	10422 (100.00)	4480	26.80

(Figures in brackets indicate percentage)

TABLE 29

**Emoluments wages and some derived ratios Annual Survey  
of Industries 1981-'82**

<i>Sector</i>	<i>Number of units</i>	<i>Total emolu- ments (Rs. lakhs)</i>	<i>Average emolu- ments Per employee (Rs.)</i>	<i>Total salaries and wages (Rs. lakhs)</i>	<i>Average wages per worker (Rs.)</i>	<i>Average emolu- ments per employee per mandays (Rs.)</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Census	720 (22.66)	16642 (84.84)	6986	10549 (83.40)	5337	34.84
Sample	2458 (77.34)	2973 (15.16)	4634	2060 (16.60)	3824	17.29
Total	3178 (100.00)	19615 (100.00)	6487	12609 (100.00)	5013	29.76

(Figures in brackets indicate percentage)

The above tables show that the respective percentages of census and sample sectors are more or less the same of for the year 1980-81 and 1981-82. It also reveals that the employees as well as the workers in the census sector are better paid than those in sample sector.

During 1981-82, the census sector constituted only 22.66 per cent of the total number of units in the factory sector. It claimed 84.84% of the total emoluments paid to all employees and 83.40 per cent of the wages paid to workers in the factory sector. It may be noted that census sector employed only 78.78 per cent of the employees and 78.58% of the workers in the factory sector. The average emoluments per mandays for the census sector worked out to Rs. 30.56 as against 15.72, for the sample sector and Rs. 26.80 for the factory sector. The reason for this difference in the emoluments in the two sectors is obvious. The factories in the census sector are generally highly machanised and employ a greater percentage of skilled persons who are better paid than others.

3.9 *Inputs*.—Inputs, in any industrial activity, mainly consist of 'raw materials and stores (used for manufacture and maintenance purposes) 'fuels', purchase of industrial and non industrial services, consumption of

products reported for sale during the previous year but used for further manufacture during the current year, consumption of fixed capital, (ie depreciation) and the value of labour inputs (ie payments made to various categories of employees).

The total value of inputs, other than labour inputs and depreciation in the factory sector during 1980-81 was worked out to Rs. 1647.66 crores. The principal component of input is consumption of materials. It accounted for Rs. 1398.92 crores or 84.90 per cent of the total value of inputs. The remaining Rs. 248.74 crores were shared by 'fuels' and 'other inputs' their relative share being Rs. 78.27 crores (4.76% and Rs. 170.47 crores (10.35%) respectively.

The total estimated value of inputs consumed by the factory sector during 1981-82 was Rs. 1952.03 crores. Of this, 'materials,' 'fuels' and 'other inputs' constituted Rs. 1680.44 crores (86.09%) Rs. 93.58 crores (4.79%) and Rs. 178.01 crores (9.12%) respectively. The consumption of input has increased during the year by 18.47% over the consumption of last year.

There were 41 groups of industries with consumption of inputs worth Rs. 5 crores and above during 1980-81. It increased to 42 groups during 1981-82. The industries are arranged in the descending order of magnitude in table 30 & 31.

TABLE 30

**Arrangement of industries according to total input annual survey of Industries 1980-81**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Total input (Rs. in lakhs)</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1.	311	Manufacture of fertilisers and pesticides	11498.66	6.98
2.	211	Manufacture of other edible oils	7966.75	4.84
3.	214	Cashewnut processing	6538.98	3.97
4.	212	Tea processing	6442.71	3.91
5.	302	Manufacture of rubber products others	6305.45	3.83
6.	231	Cotton spinning and weaving in mills	5555.72	3.37



(1)	(2)	(3)	(4)	(5)
7.	314	Manufacture of perfumes and lotions	5008.10	3.04
8.	203	Canning and processing of fish	4543.56	2.76
9.	310	Manufacture of organic and inorganic chemicals	4140.07	2.51
10.	300	Tyre and tube industries	3299.01	2.00
11.	268	Manufacture of coir and coir products	2809.90	1.71
12.	361	Manufacture of insulated wires and cables	2758.07	1.67
13.	280	Manufacture of paper and paper board	2743.50	1.66
14.	400	Generation and transmission of electric energy	2732.59	1.66
15.	360	Manufacture of transformers and electricals	2318.00	1.41
16.	335	Aluminium manufacturing	2022.31	1.21
17.	271	Saw mills	1728.03	1.05
18.	261	Manufacture of all types of threads	1557.88	0.95
19.	284	Printing and publishing of newspaper	1520.02	0.92
20.	330	Iron and steel industries	1491.86	0.91
21.	226	Manufacture of beedi	1434.97	0.87
22.	239	Cotton textiles not elsewhere classified	1434.46	0.87
23.	370	Ship building and repairing	1397.63	0.85
24.	973	Repair of motor vehicles	1260.82	0.77
25.	316	Manufacture of turpentine	1258.61	0.76
26.	204	Manufacture of grain mill products	1237.89	0.75
27.	270	Manufacture of veneers and plywoods	1220.29	0.74
28.	364	Manufacture of radio and television	1151.72	0.70
29.	320	Manufacture of structural clay products	1079.55	0.66
30.	315	Manufacture of edible oils	1068.20	0.65
31.	362	Manufacture of dry and wet batteries	1059.45	0.64

(1)	(2)	(3)	(4)	(5)
32.	380	Manufacture of medical and surgical equipments	1006.41	0.61
33.	313	Manufacture of drugs and medicines	971.05	0.35
34.	235	Weaving and finishing of cotton textiles	925.43	0.34
35.	331	Casting and forging of iron and steel	843.30	0.38
36.	340	Manufacture of metal cans and tin plate	695.11	0.42
37.	220	Distilling and blending of spirits	683.82	0.56
38.	205	Manufacture of bakery products	624.02	0.59
39.	201	Manufacture of dairy products	580.05	0.51
40.	202	Canning and preservation of fruits & vegetables	565.09	0.42
41.	357	Manufacture of machine tools	502.79	0.31
		Other industries	60783.78	36.89
		All industries	164765.61	100.00

TABLE 31

**Arrangement of industries According to Total input Annual,  
Survey of Industries, 1981-82.**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Total input (Rs. in lakhs)</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1.	311	Manufacture of fertilizers and pesticides	14514.79	7.44
2.	214	Cashewnut processing like, drying, shelling, salting etc.	9013.42	4.62
3.	302	Manufacture of rubber products not elsewhere classified	6850.49	3.51

(1)	(2)	(3)	(4)	(5)
4.	216	Manufacture of prepared animal feeds	6302.45	3.23
5.	314	Manufacture of perfumes, cosmetics, lotion and other toilet preparations	5557.29	2.85
6.	211	Manufacture of other edible oils and fats	5043.38	2.58
7.	310	Manufacture of basic industrial organic and inorganic chemicals	4807.98	2.46
8.	231	Cotton spinning, weaving, shrinking of cotton textiles in mills	4765.43	2.44
9.	203	Canning, preservation and processing of fish and similar foods	4156.34	2.13
10.	300	Tyre and tube industries	3948.42	2.02
11.	280	Manufacture of pulp, paper and paper board including newsprint	3884.06	1.99
12.	400	Generation, transmission and distribution of electric energy	3428.97	1.76
13.	361	Manufacture of insulated wires and cables	3311.71	1.70
14.	360	Manufacture of electrical industrial machinery and apparatus and parts	2753.20	1.41
15.	268	Manufacture of coir and coir products	2232.07	1.14
16.	316	Manufacture of turpentine, synthetic resins, terylene except glass etc.	2219.66	1.14
17.	335	Aluminium manufacturing	2003.94	1.03
18.	370	Ship and boat building and repairing	1979.89	1.01
19.	284	Printing and publishing of news papers	1956.27	1.00
20.	264	Manufacture of all types of textiles, garments including wearing apparels	1877.65	0.96
21.	271	Sawing and planing of wood	1852.08	0.95
22.	340	Manufacture of fabricated metal products	1611.50	0.83
23.	330	Iron and steel industries	1577.52	0.81
24.	973	Repair of motor vehicles and motor cycles	1336.29	0.69

(1)	(2)	(3)	(4)	(5)
25.	270	Manufacture of veneer, plywood and their products	1288.29	0.66
26.	313	Manufacture of drugs and medicines	1197.00	0.61
27.	363	Manufacture of electrical apparatus, appliances and their parts	1158.88	0.59
28.	320	Manufacture of structural clay products	1111.87	0.57
29.	226	Manufacture of beedi	1101.33	0.56
30.	380	Manufacture of medical surgical and Scientific equipments	1072.89	0.55
31.	235	Weaving and finishing of cotton textiles in handlooms other than khadi	1048.47	0.54
32.	204	Grain mill products	1039.21	0.53
33.	357	Manufacture of machine tools, their parts & accessories	894.39	0.46
34.	220	Distilling, rectifying and blending of spirits	872.89	0.45
35.	331	Foundaries for casting and forging of iron and steel	819.70	0.42
36.	376	Manufacture of bicycles and cycle rickshaws and parts	755.60	0.39
37.	202	Canning and preservation of fruits and vegetables	753.99	0.38
38.	343	Manufacture of handtools and general hardware	723.38	0.37
39.	219	Manufacture of food products not elsewhere classified	662.39	0.34
40.	367	Manufacture of electronic components and accessories not elsewhere classified	634.17	0.32
41.	315	Manufacture of inedible oils	624.14	0.32
42.	206	Manufacture and refining of sugar	509.08	0.26
		Other industries	81950.14	41.98
		All industries	195202.61	100.00

The table below indicates the percentage consumption of different components of 'input' in the census, sample and factory sectors.

TABLE 32

**Materials, fuels and other inputs Annual Survey of Industries  
1981-82**

(Rs. in lakhs)

Sector	Factories covered	Total value of inputs	Consumption of various components					
			Materials		Fuels		Other inputs	
			Value	Percentage	Value	Percentage	Value	Percentage
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Census	720 (22.66)	169690 (86.93)	145406 (86.53)	(85.69)	8233 (87.98)	(4.85)	16051 (90.17)	(6.17)
Sample	2458 (77.34)	25513 (13.07)	22638 (13.47)	(88.73)	1125 (12.01)	(4.41)	1750 (9.83)	(6.86)
Total	3178 (100.00)	195203 (100.00)	168044 (100.00)	(86.09)	9358 (100.00)	(4.79)	17801 (100.00)	(9.12)

The above table reveals that:—

(i) The census sector factories constituting 22.66 per cent of the total factories covered, shared 86.93 per cent of the total inputs, while the sample sector, forming 77.34 per cent of the factories accounted for only 13.07 per cent of the total inputs.

(ii) The percentage shares in the total consumption of 'materials', 'fuels' and 'other inputs', in the case of census of sector were 86.53 per cent, 87.98 per cent and 90.17 respectively. The relevant per cent percentages taken in the same order in sample sector were 13.47 per cent, 12.01 per cent and 9.33 per cent.

(iii) Within the sectors, there were not much differences in the percentages of materials, fuels and other outputs.

3.10 *Output.*—Output in any industry includes products, by products and services generated during the industrial process. The total value of output recorded by Annual Survey of Industries 1980-81 and 1981-82 were worked out to Rs. 2091.61 crores and 2455.47 crores respectively, there by showing an increase of 17.40 per cent over the year 1980-81. About 93% of the total output relates to products and by products and the remaining 7% relates to other output including services rendered to others, sale value of goods sold in the same condition as purchased, value of semi-finished goods of last year sold in current year etc. It may be seen from the tables 33/34 that, in the case of output, 'manufacture of fertilizers and pesticides' and 'electricity' occupied the first and second places respectively. There were 44 groups of industries with output worth Rs. 5 crores and above in 1980-81. This number was 47 in 1981-82. The industries are arranged in the descending order of output in the table mentioned above.

TABLE 33

**Arrangement of Industries According to total output 1980-81**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Total output (Rs. in lakhs)</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1.	311	Manufacture of fertilizers and pesticides	15977.39	7.64
2.	400	Electricity	10858.95	5.18
3.	231	Cotton spinning and weaving in mills	8346.31	3.98
4.	211	Manufacture of other edible oil	8133.15	3.88
5.	214	Cashewnut processing	8079.68	3.86
6.	302	Manufacture of rubber products	7685.94	3.67
7.	212	Tea processing	7462.50	3.57
8.	310	Manufacture of organic and inorganic chemicals	6605.86	3.16
9.	314	Manufacture of perfumes and lotions	5885.91	2.81
10.	203	Canning and processing of fish	4996.58	2.39
11.	280	Manufacture of paper and paper board	4083.54	1.95
12.	300	Tyre and tube industries	4047.85	1.93

(1)	(2)	(3)	(4)	(5)
13.	361	Manufacture of insulated wires and cables	3447.90	1.65
14.	268	Manufacture of coir and coir products	3219.13	1.54
15.	360	Manufacture of transformers and electricals	3178.22	1.52
16.	335	Aluminium manufacturing	2667.13	1.27
17.	261	Manufacture of all types of threads	2452.87	1.17
18.	370	Ship building and repairing	2339.36	1.12
19.	320	Manufacture of structural clay products	2330.82	1.11
20.	271	Saw mills	2141.84	1.01
21.	226	Manufacture of beedi	2062.00	0.99
22.	284	Printing and publishing of news paper	2030.21	0.97
23.	973	Repair of motor vehicles and motor cycles	1962.78	0.94
24.	330	Iron and steel industries	1914.19	0.92
25.	239	Cotton textiles not elsewhere classified	1893.99	0.91
26.	364	Manufacture of radio and television	1800.51	0.86
27.	270	Manufacture of veneers and plywoods	1787.73	0.85
28.	362	Manufacture of dry and wet batteries	1586.94	0.76
29.	380	Manufacture of medical and surgical equipments	1487.43	0.71
30.	313	Manufacture of drugs and medicines	1444.02	0.69
31.	316	Manufacture of turpentine	1372.14	0.66
32.	204	Manufacture of grain mill products	1360.22	0.65
33.	315	Manufacture of edible oils	1245.77	0.60
34.	235	Weaving and finishing of textiles in handloom	1209.12	0.58
35.	357	Manufacture of machine tools their parts and accessories	914.94	0.44
36.	205	Manufacture of bakery products	847.48	0.40
37.	340	Manufacture of metal cans barrels drums and other fabricated metal products not elsewhere classified	777.16	0.37

(1)	(2)	(3)	(4)	(5)
38.	285	Printing and publishing of periodicals, books and journals	750.79	0.36
39.	379	Manufacture of bicycles and cycle- rickshaws and parts	699.71	0.33
40.	201	Manufacture of dairy products	666.24	0.32
41.	367	Manufacture of electronic components and accessories not elsewhere classified	660.80	0.32
42.	217	Manufacture of starch	634.36	0.30
43.	202	Canning and preservation of fruits and vegetables	597.71	0.29
44.	343	Manufacture of handtools and general hardware	581.54	0.28
		Other industries	64932.39	31.04
		All industries	209161.10	100.00

TABLE 34

**Arrangement of industries according to total output 1981-82**

<i>Sl. No.</i>	<i>Code</i>	<i>Name of industry</i>	<i>Total output (Rs. in lakhs)</i>	<i>Percentage to total</i>
(1)	(2)	(3)	(4)	(5)
1.	311	Manufacture of fertilizers and pesticides	20188.23	8.22
2.	400	Generation, transmission and distribution of electric energy	12307.94	5.01
3.	214	Cashewnut of processing like drying, shelling, salting etc.	10891.78	4.44
4.	302	Manufacture of rubber products not elsewhere classified	8532.66	3.48



(1)	(2)	(3)	(4)	(5)
5.	310	Manufacture of basic industrial organic and inorganic chemicals	7809.84	3.18
6.	212	Tea processing	7477.61	3.04
7.	231	Cotton spinning, weaving, shrinking of cotton textiles in mills	6813.93	2.77
8.	314	Manufacture of perfumes, cosmetics, lotions and other toilet preparation	6457.03	2.63
9.	211	Manufacture of other edible oils and fats	5392.93	2.20
10.	280	Manufactures of pulp, paper and paper board including newsprint	4981.33	2.03
11.	300	Tyre and tube Industries	4544.82	1.85
12.	203	Canning, preservation and processing of fish and similar foods	4461.70	1.82
13.	361	Manufacture of insulated wires and cables	4032.81	1.64
14.	360	Mfg. of electrical industrial machinery and apparatus and parts	3787.04	1.54
15.	370	Ship and boat building and repairing	3695.21	1.50
16.	264	Manufacture of all types of textiles, garments including Wearing apparls.	3050.61	1.24
17.	335	Aluminium manufacturing	2803.57	1.14
18.	268	Manufacture of coir and coir products	2634.03	1.07
19.	316	Manufacture of turpentine synthetic resins, teryline except glass etc.	2569.89	1.05
20.	320	Manufacture of structural clay products	2495.66	1.02
21.	284	Printing and publishing of newspapers	2484.93	1.01
22.	271	Sawing and planing of wood	2374.54	0.97
23.	973	Repair of motor cycles and motor vehicles	2098.06	0.85
24.	270	Manufacture of veneer plywood and their products	1953.30	0.80
25.	340	Manufacture of fabricated metal products	1911.53	0.78

(1)	(2)	(3)	(4)	(5)
26.	226	Manufacture of beedi	1839.12	0.75
27.	330	Iron and steel industries	1831.42	0.75
28.	357	Manufacture of machine tools, their parts and accessories	1809.04	0.74
29.	380	Manufacture of medical, surgical and scientific equipment	1754.44	0.71
30.	313	Manufacture of drugs and medicines	1717.66	0.70
31.	363	Manufacture of electrical apparatus, appliances and their parts	1608.67	0.66
32.	235	Weaving and finishing of cotton textiles in handlooms other than Khadi	1373.50	0.56
33.	204	Grain mill products	1128.69	0.46
34.	220	Distilling, rectifying and blending of spirits	1078.55	0.44
35.	331	Foundaries for casting and forging iron and steel	1073.20	0.44
36.	376	Manufacture of bicycles, cycle-rickshaws and parts	1065.77	0.43
37.	343	Manufacture of handtools and general hardware	971.02	0.40
38.	285	Printing and publishing of periodicals books and journals	843.51	0.34
39.	202	Canning preservation of fruits and vegetables	816.99	0.33
40.	367	Manufacture of electronic components and accessories not elsewhere classified	797.68	0.33
41.	206	Manufacture and refining of sugar (vacum para sugar factories)	794.19	0.32
42.	219	Manufacture of food products not elsewhere classified.	747.89	0.31
43.	315	Manufacture of inedible oils	663.76	0.27
44.	324	Manufacture of cement, lime and plaster	655.22	0.27
45.	239	Cotton textiles not elsewhere classified	593.50	0.24

(1)	(2)	(3)	(4)	(5)
46.	329	Manufacture of miscellaneous non metallic mineral products	571.86	0.23
47.	323	Manufacture of chinaware and porcelainware	525.24	0.21
		Other industries	85534.83	34.83
		All industries	245546.73	100.00

The relative contribution of the census and sample sectors in the total output, products and by-products and some important ratios derived therefrom have been shown in the table given below:—

TABLE 35

## Output and some important ratios—Annual Survey of Industries 1981-82

Sector	Factories covered	Output			Value in Rs. lakhs			
		Production by products	Other output	Total	Output ratio	Output Per workers Rs. 000	Output per manday invested Rs.	Output per capital ratio
Census	720 (22.66)	203775 (88.08)	9632 (67.84)	213407 (86.91)	1.26	107.97	439	1.57
Sample	2458 (77.34)	27574 (11.92)	4566 (32.16)	32140 (13.09)	1.26	59.67	187	2.52
Total	3178 (100.00)	231349 (100.00)	14198 (100.00)	245547 (100.00)	1.26	97.63	373	1.65

(Figures in brackets show percentages)

The above table reveals that:—

(i) The census sector contributed 86.91 per cent of the total output. Its share in the case of 'products and by-products' and other output worked out to 88.08 per cent and 67.84 per cent respectively.

(ii) It is seen that output input ratios are the same in the census sector, sample sector and the combined factory sector.

(iii) The average 'value of output per worker' was such higher in census sector than in the sample sector and combined factory sectors. The relevant figures for census sector, sample sector and factory sector were Rs. 107.97 thousands, 59.67 thousands and 97.63 thousands respectively.

(iv) 'output or production per manday' is the measure of productivity in any industrial activity. The productivity in the census sector at Rs. 439 was higher as compared to Rs. 187 in the sample sector and Rs. 373 in the factory sector.

(v) The 'output per unit of invested capital' at 2.52 in the sample sector was much higher as compared to 1.57 in census sector and 1.65 in the factory sector.

3:11 *Depreciation.*—Depreciation means 'consumption of fixed capital by the factory and it is estimated on the basis of cost of installation and working life of the fixed assets.

The total estimated value of depreciation of all fixed assets in the factory sector for the year 1980-81 and 1981-82 were worked out to Rs. 5394 lakhs and Rs. 5790 lakhs respectively. The average rate of depreciation calculated on the basis of total fixed capital engaged in production activity during 1980-81, 1981-82 were 6.78 per cent and 6.35 per cent respectively in the factory sector.

Table 36 gives the average rate of depreciation as per cent of fixed capital in some important major industry groups.

TABLE 36  
Depreciation rates in some important major industry groups

Sl. No.	Code	Major industry group	Value in Rs. lakhs					
			ASI 1980-81		ASI 1981-82			
(1)	(2)	(3)	Fixed capital	Depreciation	Percentage of depreciation	Fixed capital	Depreciation	Percentage of depreciation
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1.	20 & 21	Manufacture of food products	2257	263	11.65	2090	249	11.91
2.	22	Manufacture of beverages tobacco and tobacco products	554	64	11.55	392	52	13.27
3.	23	Manufacture of cotton textiles	4213	344	8.17	3833	325	8.48

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
4.	26	Manufacture of textile products	544	48	8.82	644	50	7.76
5.	27	Manufacture of wood and wood products furniture and fixtures	858	96	11.19	829	83	10.01
6.	28	Manufacture of paper, and paper products printing and publishing and allied industries	2915	371	12.73	6105	386	6.32
7.	30	Manufacture of rubber, plastic, petroleum and coal products	4567	609	13.33	7149	639	8.94
8.	31	Manufacture of chemical and chemical products	13665	1752	12.82	14683	1870	12.74
9.	32	Manufacture of non-metallic mineral products	1003	102	10.17	1175	135	11.49
10.	33	Basic metal and alloys industries	1247	98	7.86	937	70	7.47
11.	35	Manufacture of machinery, machine tools and parts except electrical machinery	600	64	10.67	773	71	9.18
12.	36	Manufacture of electrical machinery, apparatus, appliances and supplies and parts	3087	229	7.42	3230	262	8.11
13.	40	Electricity	33819	944	2.79	37373	1058	2.83
		All other industries	10284	410	3.99	11997	540	4.50
		Total (All industries)	79613	5394	6.78	91210	5790	6.35

The average rate of depreciation for all industries taken together for 1981-82 was 6.36 per cent of fixed capital. Compared to this, the depreciation rate in the case of certain major industry groups namely,

'20 and 21—Manufacture of Food products', (11.91%)

'22—Manufacture of beverages tobacco and tobacco products', (10.01%)

'27—Manufacture of wood and wood products, furniture and fixtures', (10.01%)

'30—Manufacture of rubber, plastic, petroleum and coal products', (8.94%)

'31—Manufacture of chemical and chemical products', (12.74%),

'32—Manufacture of non-metallic mineral products', (11.49%)

'35—Manufacture of machinery, machine tools and parts, except electrical machinery', (9.18%), was very high.

The above seven groups of industries accounted for 53.52 per cent of total depreciation in the factory sector during the year. In the case of major industry group,

'40—Electricity', (2.83%), the depreciation was quite low.

TABLE 37

## General pattern of cost of production

(Value Rs. in lakhs)

Sl. No.	Cost constituents	Cost as percentage of value of output						Total	
		A. S. I. 1980-81		A. S. I. 1981-82		Value	Percentage	Value	Percentage
		Total Value	Total Percentage	Census Sector Value	Census Sector Percentage				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1.	Value of output	209176	100.00	213407	100.00	32140	100.00	245547	100.00
2.	Value of inputs								
(a)	Materials	139896	66.88	145406	68.13	22638	70.44	168044	68.43
(b)	Fuels	7829	3.74	8233	3.86	1125	3.50	9358	3.81
(c)	Other inputs	17048	8.15	16051	7.52	1750	5.44	17801	7.25
(d)	Total inputs (a+b+c)	164773	78.77	169690	79.51	25513	79.38	195203	79.49
3.	Employees emoluments	16965	8.11	16642	7.80	2973	9.25	19615	7.99
4.	Factor payments	13361	6.39	11326	5.31	1342	4.16	12668	5.16
5.	Depreciation	5394	2.58	5124	2.40	666	2.07	5790	2.36
6.	Total cost (2+3+4+5)	200493	95.85	202782	95.02	30494	94.88	233276	95.00
7.	Gross profit (output-cost)	8683	4.15	10625	4.98	1646	5.12	12271	5.00

Table 37 shows that:—

(i) The total cost output ratio has decreased from 95.85 in 1980-81 to 95.00 in 1981-82. Hence a slight increase in gross profit output ratio was noticed in 1981-82.

(ii) The 'pattern of cost of production' in factories in census sector and sample sector for 1981-82 differed substantially in 'materials', 'other inputs', 'emoluments' and 'factor payments' in the respective total cost structure in the two sectors. Even then the 'gross profit output ratio' in the census, sample, and factory sectors did not differ substantially. The relevant figures for the three sectors during 1981-82 were 4.98 per cent in the census sector, 5.12 per cent in the sample sector and 5.00 per cent in factory sector.

(iii) The total value of inputs (materials, fuels and other input taken together) constituted 79.51 per cent of the 'total value of output', in the census sector 79.38 per cent in the sample sector and 79.49 per cent in the factory sector.

(iv) The contribution of 'materials', the main component of input, ranged from 68.70 percent of the total output. The relevant figures were 68.13 per cent for census sector, 70.44% for sample sector and 68.43% for the factory sector.

(v) The percentage contribution of fuels was almost equal in all the three sectors.

(vi) The share of depreciation was 2.40% in the case of census sector, 2.07% in the case of sample sector and 2.36% in the factory sector.

3.12 *Net value added.*—'Net value added' or value added by manufacture' is a measure of the relative importance of the industrial sector in the state/national economy. It also gives a measure of the relative importance of a particular industry within the industrial sector itself. It is used to measure the contribution of industrial sector in the state/national economy. 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 input and depreciation from value of output. The net value added by the organised industrial sector (factory sector) in the state during the year 1981-82 was Rs. 445.54 crores as against Rs. 390.03 crores during 1980-81. This shows an increase of Rs. 55.51 crores or 14.23 per cent over the year. As in the previous years 'generation and transmission of electric energy' stands first with the highest amount of value added. There were 36 groups of industries during 1981-82 with net value added of Rs. 2 crores and more as against 37 groups of industries in 1980-81. These are given in tables 38/39.

TABLE 38

**Arrangement of industries according to net value added  
1980-81**

Sl. No.	Code	Name of industry	Value added (Rs. in lakhs)	Percentage to total
(1)	(2)	(3)	(4)	(5)
1	400	Generation and transmission of electric energy	7182.13	18.41
2	311	Manufacture of fertilizers and pesticides	3352.90	8.60
3	231	Cotton, spinning and weaving in mills	2514.38	6.45
4	310	Manufacture of organic and inorganic chemicals	2120.63	5.44
5	214	Cashewnut processing	1507.46	3.86
6	302	Manufacture of rubber products and others	1295.14	3.32
7	320	Manufacture of structural clay products	1192.08	3.06
8	280	Manufacture of paper and paper board	1051.62	2.70
9	212	Tea processing	932.85	2.39
10	261	Manufacture of all types of threads	915.57	2.35
11	314	Manufacture of perfumes and lotions	825.56	2.12
12	360	Manufacture of transformers and electricals	775.60	1.99
13	973	Repair of motor vehicles	680.37	1.74
14	361	Manufacture of insulated wires and cables	662.48	1.70
15	370	Ship building and repairing	659.30	1.69
16	226	Manufacture of beedi	625.01	1.60
17	364	Manufacture of radio and television	619.00	1.59
18	335	Aluminium manufacturing	589.51	1.51
19	270	Manufacture of veneers and plywood	504.03	1.29
20	362	Manufacture of dry and wet batteries	498.27	1.28
21	380	Manufacture of medical and surgical equipments	454.42	1.17
22	284	Printing and publishing of news paper	445.00	1.14
23	313	Manufacture of drugs and medicines	443.84	1.14



(1)	(2)	(3)	(4)	(5)
24	300	Tyre and tube industries	432.74	1.11
25	239	Cotton textiles not elsewhere classified	413.85	1.06
26	330	Iron and steel industries	395.42	1.01
27	271	Saw mills	388.67	1.00
28	203	Canning and processing of fish	386.60	0.99
29	268	Manufacture of coir and coir products	381.71	0.98
30	357	Manufacture of machine tools	355.86	0.91
31	220	Distilling and blending of spirits	355.28	0.91
32	285	Printing and publishing of books and journals	309.86	0.79
33	235	Weaving and finishing of textiles handloom	269.92	0.69
34	367	Manufacture of electric components and accessories	239.59	0.61
35	217	Manufacture of starch	224.03	0.57
36	205	Manufacture of bakery products	210.33	0.54
37	379	Manufacture of transport equipment and parts not elsewhere classified	205.32	0.53
		Other industries	4586.61	11.76
		All industries	39002.94	100.00

TABLE 39

**Arrangement of industries according to net value added  
1981-82**

Sl. No.	Code	Name of industry	Net value added (Rs. in lakhs)	Percentage to total
(1)	(2)	(3)	(4)	(5)
1	400	Generation, transmission and distribution of electric energy	7820.63	17.55
2	311	Manufacture of fertilizers and pesticides	4492.58	10.08

(1)	(2)	(3)	(4)	(5)
3	310	Manufacture of basic industrial organic and inorganic chemicals	2651.73	5.95
4	214	Cashewnut processing like drying, shelling salting etc.	1846.34	4.14
5	231	Cotton spinning, weaving and finishing of cotton textiles in mills	1767.47	3.97
6	302	Manufacture of rubber products not elsewhere classified	1543.30	3.47
7	370	Ship and boat building and repairing	1413.98	3.18
8	320	Manufacture of structural clay products	1310.37	2.94
9	264	Manufacture of all types of textiles, garments including wearing apparels	1152.55	2.59
10	212	Tea processing	1092.25	2.45
11	360	Manufacture of electrical industrial machinery and apparatus and parts	957.87	2.15
12	357	Manufacture of machine tools, their parts and accessories	854.10	1.92
13	314	Manufacture of perfumes, cosmetics, lotions and other toilet preparations	837.71	1.88
14	280	Manufacture of pulp, paper and paper board including newsprint	819.48	1.84
15	335	Aluminium manufacturing	765.54	1.72
16	973	Repair of motor vehicles and motor cycles	741.29	1.66
17	226	Manufacture of beedi	735.62	1.65
18	361	Manufacture of insulated wires and cables	692.28	1.56
19	380	Manufacture of medical, surgical and scientific equipment	642.31	1.44
20	270	Manufacture of veneer, plywood and their products	634.30	1.42
21	271	Sawing and planing of wood	481.20	1.08
22	284	Printing and publishing of news papers	480.03	1.08
23	313	Manufacture of drugs and medicines	474.67	1.07

(1)	(2)	(3)	(4)	(5)
24	363	Manufacture of electrical apparatus, appliances and their parts	417.27	0.94
25	268	Manufacture of coir and coir products	375.25	0.84
26	285	Printing and publishing of periodicals, books, maps, etc.	370.93	0.83
27	235	Weaving and finishing of cotton textiles in handlooms other than khadi	313.01	0.70
28	376	Manufacture of bicycles—cycle rickshaws and parts	298.43	0.67
29	300	Tyre and tube industries	277.28	0.62
30	203	Canning, preservation and processing of fish and similar food	247.40	0.56
31	340	Manufacture of fabricated metal products	245.93	0.56
32	331	Foundries for casting and forging iron and steel	242.41	0.55
33	330	Iron and steel industries	228.64	0.51
34	343	Manufacture of hand tools and general hardware	224.77	0.50
35	420	Water supply and collection	206.37	0.46
36	329	Manufacture of non-metallic mineral products	201.44	0.45
		Other industries	6697.05	14.94
All industries			44553.98	100.00

Value added by manufacture and some important derived ratios have been shown in Table 40 given below:

TABLE 40  
VALUE ADDED BY MANUFACTURE AND SOME  
IMPORTANT RATIOS 1981-82

(Rs. lakhs)

<i>Sector</i>	<i>Factories covered</i>	<i>Total value added by manufacture</i>	<i>Value added invested capital ratio</i>	<i>Value added input ratio</i>	<i>Value added output</i>	<i>Value added per workers</i>	<i>Value added per manday</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Census	720 (22.66)	38593 (36.62)	0.28	0.23	0.18	19526	79.30
Sample	2458 (77.34)	5961 (13.38)	0.47	0.23	0.18	11067	34.69
Total	3178 (100.00)	44554 (100.00)	0.30	0.23	0.18	17715	67.66

The table reveals that:—

(i) The share of census sector, constituting 22.66 per cent of the total 8 factories covered, was Rs. 385.93 crores or 86.62 per cent of the total value added by manufacture while it worked out to Rs. 59.61 crores or 13.38 per cent of the total for sample sector, forming 77.34 per cent of the factory sector.

(ii) 'value added-invested capital ratio' or the 'value added per unit of invested capital' was 0.47 in the sample sector, 0.28 in the census sector and 0.30 in the factory sector. It shows a relatively better return on the invested capital in the sample sector.

(iii) 'value added-input' ratios were the same (0.23) in the census, sample and factory sectors. Similarly value added output ratios were the

ame (0.18) in the census sector and sample sector. The ratio was 0.13 in the combined factory sector.

(iv) Value added per worker at Rs 19526 in the census sector was higher as compared to Rs. 11067 in the sample sector and Rs. 17715 in the factory sector.

(v) Value added per manday was also higher with Rs. 79.30, in the census sector than Rs. 34.69 in the sample sector and Rs. 67.66 in the factory sector.

### 3.13 structural ratios of selected industries.

The structural ratios of some selected industries are presented in table 41/42. These industries are selected on the basis of their contribution towards value added by manufacture during 1980-81 and 1981-82.

Table 41 shows that during 1980-81, the fixed capital per employee was the highest in 'ship and boat building industry' with Rs. 330345, while it was very low in 'manufacture of bidi' with Rs. 106 as against the state average of Rs. 28298. The fixed capital required to employ a person in 'cashew processing' industry was only Rs 310. Out of the 37 industries shown in the table, the fixed capital per employee was less than the state average in 20 industries. Out of the remaining 17 industries, in 8 industries capital employee ratio was more than Rs. 50,000. They are '400-generation and transmission of electric energy' (Rs. 116335), '311-manufacture of fertilizers and pesticides' (Rs. 147430), '310-manufacture of basic industrial organic and inorganic chemicals' (Rs. 61414), '220-manufacture of pulp paper and paper board' (Rs. 59583), '370-ship and boat building and repairing' (Rs. 3303345), '300-tyre and tube industries' (Rs. 114978), '320-distilling and blending of spirits' (Rs. 56315), and '357-manufacture of electric components and accessories' (Rs. 129743).

As in the previous year, during 1981-82 also the highest fixed capital per employee was in 'Ship and boat building and repairing' industry with Rs. 3,56,831 and the lowest was in 'bidi' industry with Rs. 102 as against the state average of Rs. 50163. The fixed capital required to employ a person in 'cashewnut processing industry was only Rs. 248. Table 42 shows that fixed capital per employee was less than the state average in 20 industries. Fixed capital per employee was more than Rs. 50,000 in 'generation and transmission of electric energy' (Rs. 154985), 'manufacture of fertilizers and pesticides', (Rs. 132269), 'manufacture of basic industrial organic and inorganic chemicals' (Rs. 63727), 'ship and boat building and repairing' (Rs. 358813), 'manufacture of pulp paper and paper board' (Rs. 103399), 'tyre and tube industries' (Rs. 112013), and '420-water supply' (Rs. 194119).

Output per employee is a measure of productivity of labour. During the year 1980-81, the output per employee was the lowest in cashewnut processing industry with Rs. 8426- while it was the highest in manufacture of perfumes, cosmetics, lotions, etc., with Rs. 298926 against Rs. 74338 for all

industries taken together. It may be seen from the table 42 that output per employee was less than the state average in 14 industries. During 1981-82 the lowest output per employee was in bidi industry with Rs. 8591- and the highest output per employee was in manufacture of insulated wires and cables with Rs. 349161- as against a state average of Rs. 81202. Thirty six industries were taken into consideration for the year 1981-82. But in 15 industries the output per employee was less than the state average. The table 41 and 42 show that some of the industries were the per employee output ratio was less than the state averages were the capital intensive industries like 'Electricity and 'manufacture of machine tools' and some others were in the labour intensive industries like 'cashewnut processing', 'bidi manufacturing' and weaving and finishing of textiles in handlooms other than khadi.

The value added per employee for the factory sector as a whole was Rs. 13866 in 1980-81 and Rs. 14734 in 1981-82. The value added per employee was the highest with Rs. 63784 in distilling, rectifying and blending of spirits in the year 1980-81 and in manufacture of fertilizers and pesticides with Rs. 71732 in 1981-82. It was the lowest in cashewnut processing industry with Rs. 1572 in 1980-81 and Rs. 1644 in 1981-82. According to the table, value added per employee was less than the state average in 11 industries in 1980-81 and in 12 industries in 1981-82. During 1980-81 value added per employee was more than Rs. 50000 in four industries, namely, manufacture of fertilizers and pesticides, manufacture of basic and industrial organic and inorganic chemicals, manufacture of insulated wires and cables and distilling and blending of spirit. Industries coming under the above category during the year 1981-82 were the first three industries stated above, 'ship and boat building and repairing, aluminium manufacturing and water supply'.

The average annual emoluments of factory employee in the state was Rs. 6029 in 1980-81 and Rs. 6486 in 1981-82. But during these years, the lowest average earnings was in cashewnut processing industry with Rs. 1003 in 1980-81 and Rs. 973 in 1981-82. As against this the average annual earnings was the highest in manufacture of pulp, paper and paper board with Rs. 19769 in 1980-81 and in aluminium manufacturing industry with Rs. 23056 in 1981-82. The average annual earning of an employee in 1980-81 was less than the state average in cashewnut processing, manufacture of bidi, sawing and planing of wood (other than plywood), weaving and finishing of cotton textiles in hand looms other than khadi, manufacture of coir products, and in manufacture of structural clay products. In 1981-82 also the average annual earnings was less than the state average in the above mentioned industries except manufacture of structural clay products. The average earning of an employee was more than Rs. 10,000 in 21 industries in 1981-82 was against 19 industries in 1980-81.

The input output ratio of the factory sector for the year 1980-81 was 0.788 and for 1981-82, it was 0.795. The tables show that, the ratio was highest in canning preserving and processing of fish (0.91 in 1980-81 and 0.93 in

1981-82) while it was very low in generation, transmission and distribution of electric energy (0.25 in 1980-81 and 0.28 in 1981-82).

The fixed capital gross output ratio which was 0.50 at the state level in 1979-80 came down to 0.38 in 1980-81 and to 0.37 in 1981-82. In 1980-81 the fixed capital required to produce output worth Re. 1 was the highest in ship building and repairing industry with Rs.3.76 followed by electricity undertakings with Rs. 3.11 as against one paisa for manufacture of bidi and four paisa for cashewnut processing industries. But in 1981-82, the fixed capital gross output ratio was the highest in electricity undertakings followed by ship building and repairing industry and the ratio was the lowest in bidi industry followed by cashewnut processing industry. These show that 'ship building and repairing' and electricity are highly capital intensive while bidi and cashewnut processing industries are labour intensive. The industries like manufacture of 'fertilizers and pesticides', 'manufacture of basic and industrial organic and inorganic chemicals', 'cotton spinning, weaving, etc., in mills', 'tyre and tube industries' etc., required fixed capital above state average to produce unit output and the fixed capital required to produce unit output in very low in tea processing, manufacture of rubber products, manufacture of perfumes cosmetics, lotion, manufacture of coir and coir products, etc.

The fixed capital to value added ratio of the factory sector which was 2.36 during the year 1979-80 came down to 2.02 in 1980-81 and to 2.05 in 1981-82. The ratio was the highest in ship building and repairing industry in 1980-81 with 13.33 and the ratio was the lowest in manufacture of bidi with 0.03. Next above the bidi industry was cashewnut processing industry with 0.20. During 1981-82, the ratio was the highest in tyre and tube industries with 8.55. As in the previous year the lowest ratio was in manufacture of bidi and next above to it was cashewnut processing industry. The tables show that in 1980-81, 'generation and transmission of electric energy', 'tyre and tube industry, manufacture of pulp paper and paper board' and manufacture of fertilizers and pesticides were the other industries in which the fixed capital value added ratios, were more than 2.00. During 1981-82, generation and transmission of electric energy, ship building and repairing, manufacture of pulp paper and paper board and water supply collection and distribution were the other industries of the above category. The fixed capital value added ratio was more than one in fourteen industries during 1980-81 and in 15 industries in 1981-82.

The ratio of value added to output of the factory sector was 0.20 in 1979-80. It decreased to 0.19 in 1980-81 and to 0.18 in 1981-82. The ratio was the highest in electricity with 0.66 in 1980-81 and 0.64 in 1981-82. The ratio was the lowest in canning preserving and processing of fish with 0.08 in 1980-81, and 0.05 in 1981-82. The ratio was lower than the state average in 7 industries in 1980-81 and in 10 industries in 1981-82.

The share of labour in the total income generated in the registered factory sector of the state, measured as the ratio of emoluments to net value added decreased from 0.45 in 1979-80 to 0.43 in 1980-81. It showed a very slight improvement from 0.43 in 1980-81 to 0.44 in 1981-82. The ratio was 1.00, in 'manufacture of transport equipment and parts not elsewhere classified' in 1980-81 and 1981-82, this ratio was more than one in 'manufacture of pulp paper and paper board', and tyre and tube industries. It shows that there was no profit in the above industries. The ratio of emoluments to value added was 0.50 or more in 18 industries in 1980-81 and in 16 industries in 1981-82. The ratio was less than the state average in 18 industries in 1980-81 and in 15 industries in 1981-82.



TABLE 41  
Structural Ration in selected Industries 1980-81

Sl. No.	Code	Name of industry	Fixed capital per employee [Rs.]	Emoluments per employee (Rs)	Output per employee (Rs.)	Value added per employee (Rs.)	Input output ratio	Ratio of fixed capital to output	Ratio of fixed capital to value added	Ratio of value added to output	Ratio of emoluments to value added	Ratio of operating surplus to output	Ratio of operating surplus to productive capital
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	400	Generation and transmission of energy	116335	9944	37354	24705	0.25	3.11	4.71	0.66	0.40	0.40	0.11
2	311	Manufacture of fertilisers and pesticides	14730	15370	255758	55770	0.72	0.55	2.64	0.21	0.28	0.15	0.18
3	231	Cotton spinning and weaving in mills	24089	9581	62896	18948	0.67	0.38	1.27	0.30	0.51	0.15	0.24
4	310	Manufacture of organic and inorganic chemicals	61414	18487	158073	50745	0.63	0.39	1.21	0.32	0.36	0.20	0.30
5	214	Cashewnut processing	310	1003	8426	1572	0.81	0.04	0.20	0.19	0.64	0.07	0.29
6	302	Manufacture of rubber products-others	11994	6197	43636	24204	0.82	0.08	0.50	0.17	0.26	0.13	0.74
7	320	Manufacture of structural clay products	5047	5801	18690	9559	0.46	0.27	0.53	0.51	0.61	0.20	0.45
8	280	Manufacture of paper and paper board	59583	19769	123706	31857	0.67	0.48	1.87	0.26	0.62	0.10	0.12

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
9.	212	Tea processing	11006	4624	145044	18131	0.86	0.08	0.61	0.13	0.26	0.09	0.46
10.	261	Manufacture of all types of threads	9605	12915	104556	39027	0.62	0.09	0.25	0.37	0.33	0.25	0.52
11.	314	Manufacture of perfumes and lotions	26120	12508	298626	41885	0.85	0.09	0.62	0.14	0.30	0.10	0.39
12.	360	Manufacture of transformers and electricals	29322	13251	110278	26912	0.73	0.27	1.09	0.24	0.49	0.12	0.20
13.	973	Repair of motor vehicles	45672	11076	39271	13613	0.64	0.12	0.34	0.35	0.81	0.06	0.33
14.	361	Manufacture of insulated wires and cables	20874	16346	297489	57160	0.80	0.07	0.37	0.19	0.29	0.14	0.45
15.	370	Ship building and repairing	330345	13777	87913	24777	0.60	3.76	13.33	0.28	0.56	0.13	0.02
16.	226	Manufacture of beedi	106	2969	10812	3277	0.70	0.01	0.03	0.30	0.91	0.03	0.50
17.	364	Manufacture of radio and television	38278	9821	139143	47836	0.64	0.28	0.80	0.34	0.21	0.27	0.27
18.	335	Aluminium manufacturing	40512	17341	158099	34945	0.76	0.26	1.16	0.22	0.50	0.11	0.17
19.	270	Manufacture of veneers and plywood	12959	7030	47107	13282	0.68	0.28	0.98	0.28	0.53	0.13	0.21
20.	362	Manufacture of dry and wet batteries	32481	11722	139084	43671	0.67	0.23	0.74	0.31	0.27	0.23	1.24
21.	380	Manufacture of medical and surgical equipment	28504	12169	113805	34768	0.68	0.25	0.82	0.31	0.35	0.20	0.38
22.	284	Printing and publishing of news papers	12405	12904	100705	22073	0.77	0.12	0.56	0.22	0.58	0.09	0.31
23.	313	Manufacture of drugs and medicines	18752	8771	70474	21661	0.67	0.27	0.87	0.31	0.40	0.18	0.35

24.	300	Tyre and tube industries	114978	12557	182912	19554	0.82	0.63	5.88	0.11	0.64	0.04	0.04
25.	239	Cotton textiles not elsewhere classified	34673	14525	91674	20031	0.52	0.38	1.73	0.23	0.73	0.06	0.13
26.	330	Iron and steel industries	35747	16103	210119	43405	0.78	0.17	0.82	0.21	0.37	0.13	0.39
27.	271	Sawing and planing of wood (other than plywood)	2899	2521	22327	4052	0.81	0.13	0.72	0.18	0.62	0.07	0.24
28.	203	Canning and processing of fish	22797	4097	211361	16354	0.91	0.11	1.39	0.08	0.25	0.06	0.53
29.	268	Manufacture of coir and coir products	11057	5972	121431	14399	0.87	0.09	0.77	0.12	0.41	0.07	0.38
30.	357	Manufacture of machine tools	18395	11841	31969	12434	0.55	0.58	1.48	0.39	0.95	0.02	0.22
31.	220	Distilling and blending of spirits	56815	10898	195142	63784	0.63	0.29	0.89	0.33	0.17	0.27	0.48
32.	285	Printing and publishing of books and journals	12570	7203	21281	8783	0.53	0.59	1.43	0.41	0.82	0.07	0.08
33.	235	Weaving and finishing of textiles in handlooms	3202	4201	24956	5571	0.77	0.13	0.57	0.22	0.75	0.05	0.15
34.	367	Manufacture of electric components and accessories	129743	11407	79711	28901	0.56	1.63	4.49	0.36	0.14	0.22	0.09
35.	217	Manufacture of starch	20702	8050	127895	45167	0.63	0.16	0.46	0.35	0.18	0.29	0.51
36.	205	Manufacture of bakery products	6758	7133	51022	12663	0.74	0.13	0.53	0.25	0.56	0.11	0.29
37.	379	Manufacture of transport equipment and parts not elsewhere classified	4290	10354	35197	10328	0.69	0.12	0.42	0.29	1.00	0.00	0.00

TABLE 42

## Structural ratios in selected industries 1981-82

Sl.No.	Code	Name of Industry	Fixed capital per employee (Rs.)	Emoluments per employee (Rs.)	Output per employee (Rs.)	Value added per employee (Rs.)	Input output ratio	Ratio of fixed capital to output	Ratio of fixed value added to value added	Ratio of value added to output	Ratio of emoluments to value added	Ratio of operating surplus to output	Ratio of operating surplus plus to productive capital
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1.	400	Generation transmission and distribution of electric energy	154985	12831	51041	32432	0.28	3.04	4.78	0.64	0.40	0.38	0.11
2.	311	Manufacture of fertilizers and pesticides	192269	18198	522341	71732	0.72	0.41	1.84	0.22	0.25	0.17	0.27
3.	310	Manufacture of basic industrial organic and inorganic chemicals	63727	19052	152924	51923	0.62	0.42	1.23	0.34	0.37	0.22	0.31
4.	214	Cashewnut processing like, drying, shelling, salting etc.	248	973	9699	1644	0.83	0.03	0.15	0.17	0.59	0.07	0.31
5.	231	Cotton spinning, weaving and finishing of cotton textiles in mills	26155	9896	56142	14563	0.70	0.47	1.80	0.26	0.68	0.08	0.12
6.	302	Manufacture of rubber products not elsewhere classified	14592	7415	152778	27633	0.80	0.10	0.53	0.18	0.27	0.13	0.75
7.	370	Ship and boat building and repairing	356831	17192	142069	54363	0.54	2.51	6.56	0.38	0.32	0.26	0.09
8.	320	Manufacture of structural clay products	5120	7036	19397	10185	0.45	0.26	0.50	0.53	0.69	0.16	0.36
9.	264	Manufacture of all types of textiles, garments including wearing apparels	10483	14036	110609	41789	0.62	0.10	0.25	0.38	0.34	0.25	0.53

	212	Tea processing	12025	5170	145196	21209	0.84	0.08	0.57	0.15	0.24	0.11	0.54
11.	360	Manufacture of electrical industrial machinery and apparatus and parts	30854	14599	111384	28173	0.73	0.28	1.10	0.25	0.52	0.12	0.21
12.	357	Manufacture of machine tools, their parts and accessories	17170	12463	46782	22087	0.49	0.37	0.78	0.47	0.56	0.21	0.28
13.	314	Manufacture of perfumes, cosmetics, lotions and other toilet perfumes	32123	14675	326442	42351	0.86	0.10	0.08	0.13	0.35	0.09	0.35
14.	280	Manufacture of pulp, paper and paper board including newsprint	103399	17334	102493	16851	0.78	1.01	6.14	0.17	1.03(-)	0.01(-)	0.01
15.	335	Aluminium manufacturing	33230	23056	253030	69092	0.72	0.13	0.48	0.27	0.33	0.48	0.43
16.	973	Repair of motor vehicles and motor cycles	4856	11810	40589	14341	0.64	0.12	0.34	0.35	0.82	0.06	0.31
17.	226	Manufacture of beedi	102	3319	8591	3436	0.60	0.01	0.03	0.40	0.97	0.36	0.29
18.	361	Manufacture of insulated wires and cables	31669	20089	349161	59937	0.82	0.09	0.53	0.17	0.34	0.11	0.35
19.	980	Manufacture of medical, surgical and scientific equipments	27940	14073	121921	44636	0.61	0.23	0.63	0.37	0.32	0.25	0.77
20.	270	Manufacture of veneer, plywood and their products	8536	7747	51511	16727	0.66	0.17	0.51	0.33	0.46	0.17	0.39
21.	271	Sawing and planing of wood (other than plywood)	4040	2578	23872	4838	0.78	0.17	0.84	0.20	0.53	0.10	0.30
22.	284	Printing and publishing of news papers	19382	14705	116445	22494	0.79	0.17	0.86	0.19	0.65	0.07	0.19
23.	313	Manufacture of drugs and Medicines	19866	9204	76340	21097	0.70	0.26	0.94	0.28	0.44	0.16	0.28
24.	363	Manufacture of electrical apparatus appliances and their parts	30209	13605	118809	30818	0.72	0.25	0.98	0.26	0.44	0.15	0.46

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
25.	268	Manufacture of coir and coir products	12140	6483	97774	13929	0.85	0.12	0.87	0.14	0.47	0.08	0.19
26.	285	Printing and publishing of periodicals, books maps etc.	11103	8720	24004	10556	0.52	0.46	1.05	0.44	0.83	0.08	0.09
27.	235	Weaving and finishing of cotton textiles in handlooms other than khadi	2764	4944	27866	6350	0.76	0.10	0.44	0.23	0.78	0.05	0.19
28.	376	Manufacture of bicycles, cycle-rikshaws and parts	5596	10722	42026	11776	0.71	0.13	0.48	0.28	0.09	0.03	0.07
29.	300	Tyre and Tube industries	112013	14080	214784	13104	0.87	0.52	8.55	0.06	1.07(-)	0.01(-)	0.01
30.	203	Canning preservation and processing of fish and similar food	18736	15594	196032	10870	0.93	0.10	0.05	0.52	0.03	0.25	
31.	340	Manufacture of fabricated metal products	36914	99333	146253	18816	0.84	0.25	1.96	0.43	0.50	0.07	0.41
32.	331	Foundries for casting and forging of iron and steel	30645	12920	152878	34532	0.76	0.20	0.89	0.23	0.37	0.14	0.39
33.	330	Iron and Steel Industries	35837	16554	185743	23189	0.86	0.19	1.55	0.13	0.71	0.04	0.08
34.	343	Manufacture of hand tools and general hardware	17885	7192	63715	14749	0.75	0.28	1.21	0.23	0.49	0.12	0.31
35.	420	Water supply collection and distribution	194119	10645	118671	55626	0.39	1.64	3.49	0.47	0.19	0.38	0.23
36.	329	Manufacture of non-metallic mineral products	33905	10470	73410	25863	0.58	0.46	1.31	0.35	0.41	0.21	0.23

## CHAPTER 4

## RELATIVE IMPORTANCE OF DIFFERENT INDUSTRIES

4.1 The establishments covered in the Annual Survey of Industries 1980-81 and 1981-82 have been classified into major industry groups (two digit level of National Industrial Classification, NIC-1970) and are ranked according to their contribution towards value added by manufacture in table 43 and 44. The tables show that during the two years under reference, the first four places were occupied by the same industry groups, but with slight changes in their ranks. During 1980-81, the first four industry groups taken in the order of ranks were (i) '40-Electricity', (ii) '31-Manufacture of chemicals and chemical products' (iii) '30-Manufacture of rubber, plastic, petroleum and coal products' and (iv) '20 & 21 Manufacture of food products'. The above four industry groups constituting 30.13 per cent of the total factories accounted for 68.22 per cent of total fixed capital and 63.20 per cent of total invested capital. These groups shared 58.14 per cent of total employment and 45.20 per cent of total emoluments. The share of total input, output and value added by manufacture by the above four industry groups were 73.00 per cent, 69.82 per cent and 55.37 per cent respectively in 1980-81.

According to the 'value added' ranking in 1981-82, '31-Manufacture of chemicals and chemical products' stood at the first place, followed by '40-Electricity', '30-Manufacture of rubber, plastics petroleum and coal products' and '20 & 21-Manufacture of food products'. These four major industry groups accounted for 29.07 per cent of the total number of factories. The percentage share of these industries taken together in the total fixed capital, total invested capital, total persons employed, total emoluments, total input, total output, and value added were 67.20 per cent, 63.45 per cent, 59.04 per cent, 45.86 per cent, 75.32 per cent, 71.95 per cent and 57.98 per cent respectively.

For principal characteristics of each major industry group, please see tables 44-46.

TABLE 43.

## Ranking of Major industry groups 1980-81

Code No. (Major group)	Description	Value added (Rs. in crores)	Rank
(1)	(2)	(3)	(4)
40.	Electricity	71.82	1
31.	Manufacture of chemical and chemical products	68.49	2
30.	Manufacture of rubber, plastic, petroleum and coal	39.07	3

(1)	(2)	(3)	(4)
20.	& Manufacture of food products	36.62	4
21.			
23.	Manufacture of cotton textiles	32.05	5
36.	Manufacture of electrical machinery apparatus, appliances and supplies and parts	29.15	6
28.	Manufacture of paper and paper products and printing, publishing and allied industries	19.39	7
32.	Manufacture of non-metallic mineral products	15.24	8
26.	Manufacture of textile products (including wearing apparels)	13.28	9
22.	Manufacture of beverages, tobacco and tobacco products	12.44	10
33.	Basic metal and alloy industries	11.21	11
27.	Manufacture of wood and wood products	10.34	12
37.	Manufacture of transport equipments and parts	8.97	13
97.	Repair services	8.27	14
38.	Other manufacturing industries	4.97	15
35.	Manufacture of machinery machine tools and parts	4.42	16
34.	Manufacture of metal products and parts	3.11	17
42.	Water works and supply	1.18	18

TABLE 44

### Ranking of Major Industry Groups 1981-82

<i>Industry Code</i> (Major group)	<i>Description</i>	<i>Value added.</i> (Rs. in crore)	<i>Rank.</i>
(1)	(2)	(3)	(4)
31.	Manufacture of chemical and chemical products	87.24	1
40.	Electricity	78.20	2
30.	Manufacture of rubber, plastic, petroleum and coal	50.33	3



(1)	(2)	(3)	(4)
20.	Manufacture of food products	42.51	4
21.			
36.	Manufacture of electrical machinery apparatus and supplies	23.75	5
23.	Manufacture of cotton textiles	22.73	6
32.	Manufacture of non-metalic mineral products	18.99	7
28.	Manufacture of paper and paper products	18.57	8
37.	Manufacture of transport equipment and parts	17.12	9
26.	Manufacture of textiles products	15.97	10
27.	Manufacture of wood and wood products	12.71	11
33.	Basic metal and alloy industries	12.36	12
22.	Manufacture of beverages tobacco and tobacco products	11.02	13
35.	Manufacture of machinery machine tools and parts	9.82	14
97.	Repair services	8.89	15
38.	Other manufacturing industries	6.78	16
34.	Manufacture of metal products and parts	6.55	17
42.	Water works and supply	2.06	18
29.	Manufacture of leather and leather products	0.15	19

TABLE 45

## Principal characteristics for each Major Industry groups 1980-81

(Rs. lakhs)

Sl. No.	Major Industry groups	Description	Numbers of units	Fixed capital	Working capital	Productive capital
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	40	Electricity	5	33819	5973	39792
2.	31	Manufacture of chemicals and chemical products (except products of petroleum and coal)	130	13665	8490	22155
3.	30	Manufacture of rubber, plastic, petroleum and coal products	159	4567	7792	12360
4.	20&21	Manufacture of food products	589	2257	3603	5860
5.	23	Manufacture of cotton textiles	153	4213	2416	6629
6.	36	Manufacture of electrical machinery, apparatus, appliances and supplies and parts	53	3087	3726	6813
7.	28	Manufacture of paper and paper products and printing, publishing and allied industries	128	2915	2056	4971
8.	32	Manufacture of non-metallic mineral products	276	1003	799	1802

9.	26	Manufacture of textiles products (including wearing apparel other than foot-wear)	93	544	1277	1820
10.	22	Manufacture of beverages tobacco and tobacco products	352	354	488	1042
11.	33	Manufacture of basic metal and alloys industries	41	1247	1549	2796
12.	27	Manufacture of wood and wood products furniture and fixtures	606	858	1082	1940
13.	37	Manufacture of transport equipment and parts	31	8887	7058	15945
14.	97	Repair of motor vehicles and cycles	111	261	186	447
15.	38	Other manufacturing industries	21	407	420	826
16.	35	Manufacture of machinery machine tools and parts except electrical machinery	58	600	613	1214
17.	34	Manufacture of metal products and parts except machinery and transport equipment	117	413	424	887
18.	42	Water works and supply	5	254	5	259

TABLE 45—(Contd.)

<i>Sl. No.</i>	<i>Major industry group</i>	<i>Invested capital</i>	<i>Out-standing loans</i>	<i>Persons employed</i>	<i>Total emoluments</i>	<i>Total input</i>	<i>Total output</i>	<i>Depreciation</i>	<i>Value added</i>	<i>Factor payment</i>	<i>Net income</i>
(1)	(2)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1.	40	40787	35748	29070	2891	2733	10859	944	7182	5987	1195
2.	31	23149	19142	16570	2401	23980	32580	1752	6849	1521	5328
3.	30	14995	12692	8114	707	64369	68885	609	3907	2070	1837
4.	20 & 21	7164	5807	109833	1669	29345	33269	263	3662	514	3148
5.	23	7482	4430	20774	1800	8042	11591	344	3205	540	2665
6.	36	7280	5267	7675	957	7930	11075	229	2915	864	2051
7.	28	5155	1966	10222	1246	5172	7483	371	1939	301	1638
8.	32	1708	1011	14352	912	1779	3405	102	1524	121	1403
9.	26	2196	751	5560	481	4437	5813	48	1328	76	1252
10.	22	1062	575	20201	662	2379	3687	64	1244	61	1183
11.	33	3725	1581	3657	552	4360	5579	98	1121	147	974
12.	27	2095	1188	14703	596	3353	4483	96	1034	186	848
13.	37	14941	7354	4979	594	2039	3229	293	897	663	234

14.	97	397	46	6368	689	1404	2256	25	827	12	815
15.	38	1009	492	1764	184	1083	1610	30	497	93	404
16.	35	1619	559	3777	394	751	1257	64	442	109	333
17.	34	985	682	3411	197	1458	1813	44	211	96	215
18.	42	259	..	259	29	152	287	17	118	..	118

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TABLE 46

## Principal Characteristics for each Major Industry Group—1981-82

<i>Sl. No.</i>	<i>Major industry group</i>	<i>Description</i>	<i>Number of units</i>	<i>Fixed capital</i>	<i>Working capital</i>	<i>Productive capital</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	31	Manufacture of chemicals and chemical products (except product of petroleum and coal)	162	14683	8525	23208
2.	40	Electricity	7	37373	5822	43195
3.	30	Manufacture of rubber, plastic, petroleum and coal products	164	7149	1660	8809
4.	20	& Manufacture of food products	591	2090	4063	6154
	21					
5.	36	Manufacture of electrical machinery, apparatus, appliances and supplies and parts	72	3230	3237	6466
6.	23	Manufacture of cotton textiles	162	3833	1688	5521
7.	32	Manufacture of non-metallic minerals products	307	1175	997	2173
8.	28	Manufacture of paper and paper products and printing, publishing and allied industries	151	6105	2587	8691
9.	37	Manufacture of transport equipment and parts	33	9423	2231	11655

10.	26	Manufacture of textiles products (including wearing apparel other than foot-wear)	91	644	1980	2623
11.	27	Manufacture of wood and wood products furniture and fixtures	668	829	1063	1892
12.	33	Manufacture of basic metal and alloys industries	46	937	1452	2389
13.	22	Manufacture of beverages tobacco and tobacco products	360	392	477	869
14.	35	Manufacture of machinery, machine tools and parts except electrical machinery	75	773	780	1553
15.	97	Repair of motor vehicles and cycles	107	290	187	478
16.	38	Other manufacturing industries	29	430	193	622
17.	34	Manufacture of metal products and parts except machinery and Transport equipment	140	895	959	1854
18.	42	Water works and supply	7	720	6	726
19.	29	Manufacture of leather & leather products (except repair)	6	241	30	270
			3178	91212	37937	129148

TABLE 46=(Contd.)

<i>Sl. No.</i>	<i>Major industry group</i>	<i>Invested capital</i>	<i>Out-standing loan</i>	<i>Persons employed</i>	<i>Total emoluments</i>	<i>Total input</i>	<i>Total output</i>	<i>Depre-ciation</i>	<i>Value added</i>	<i>Factor payment</i>	<i>Net income</i>
(1)	(2)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1.	31	25811	14655	19819	3170	29225	39820	1870	8724	1920	6804
2.	40	45625	41172	24114	3099	3429	12308	1058	7820	3109	4711
3.	30	15421	12345	8414	838	86826	91498	639	5034	2366	2668
4.	20 & 21	7568	6531	126183	1889	28541	33042	249	4252	729	3523
5.	36	6876	5497	8281	1144	8509	11146	262	2376	988	1388
6.	23	6663	4496	18959	1555	6785	9383	325	2273	563	1710
7.	32	2082	1217	15441	1193	2213	4248	135	1899	136	1763
8.	28	9918	16673	12042	1566	6843	9087	386	1857	992	865
9.	37	14415	7742	5137	719	2735	4761	313	1713	846	867
10.	26	2586	910	6009	585	4338	5985	50	1597	107	1490
11.	27	1999	1411	15046	567	3503	4857	83	1271	195	1076
12.	33	2445	922	2796	509	4401	5708	70	1237	136	1101
13.	22	889	150	22093	805	2198	3353	52	1103	24	1079



14.	35	1987	1716	5112	560	1139	2192	71	982	155	827
15.	97	438	32	6516	751	1399	2314	24	890	8	882
16.	38	1035	931	1762	217	1117	1837	42	679	140	539
17.	34	2035	1082	4094	308	2781	3525	88	656	185	471
18.	42	726	339	371	39	173	440	60	206	25	181
19.	29	300	328	200	11	48	42	10	(—) 15	43	(—) 58
		148819	118149	302389	19615	195203	245546	5787	44554	12667	31887

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4.2. The percentage distribution of each of the aggregates of the major industry groups for the year 1980-81 and 1981-82 are given in table 47/48.

The table 47 shows that during 1980-81, the contribution of '38-Other manufacturing industries', '35-Manufacture of machinery, machine tools and parts', '34-Manufacture of metal products and parts' and '42-Water works and supply' towards various aggregates were below 2%. But during 1981-82 only three major group industries namely '34-Manufacture of metal products and parts', '42-Water works and supply' and '29-Manufacture of leather and leather and fur products' were under the above category.

TABLE 47

## Principal Characteristics for each Major Industry Group (Percentage)

1980-'81

<i>Sl. No.</i>	<i>Major industry group</i>	<i>Description</i>	<i>Number of units</i>	<i>Fixed capital</i>	<i>Working capital</i>	<i>Productive capital</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	40	Electricity	0.17	42.48	12.45	31.19
2.	31	Manufacture of chemical and chemical products	4.48	17.16	17.69	17.37
3.	30	Manufacture of rubber, plastic, petroleum and coal products	5.42	5.74	16.25	9.69
4.	20& 21	Manufacture of food products	20.10	2.84	7.52	4.59
5.	23	Manufacture of cotton textiles	5.22	5.29	5.04	5.20
6.	36	Manufacture of electrical machinery apparatus, appliances and supplies and parts	1.81	3.88	7.77	5.34
7.	28	Manufacture of paper and paper products and printing and publishing and allied industries	4.37	3.66	4.29	3.90
8.	32	Manufacture of non-metallic mineral products	9.42	1.26	1.67	1.40

(1)	(2)	(3)	(4)	(5)	(6)	(7)
9.	26	Manufacture of textile products	3.17	0.68	2.66	1.43
10.	22	Manufacture of beverages, tobacco and tobacco products	12.01	0.70	1.02	0.82
11.	33	Basic metal and alloys industries	1.40	1.57	3.23	2.19
12.	27	Manufacture of wood and wood products furniture and fixtures	20.67	1.08	2.26	1.52
13.	37	Manufacture of transport equipment and parts	1.06	11.16	14.72	12.50
14.	97	Repair services	3.79	0.33	0.38	0.35
15.	38	Other manufacturing industries	0.72	0.51	0.88	0.65
16.	35	Manufacture of machinery, machine tools and parts	1.98	0.75	1.28	0.95
17.	34	Manufacture of metal products and parts except machinery and transport equipment	3.99	0.58	0.88	0.70
18.	42	Water works and supply	0.17	0.32	0.01	0.20
Total			100.00	100.00	100.00	100.00

TABLE 47 (Contd.)

<i>Sl. No.</i>	<i>Major industry group</i>	<i>Invested capital</i>	<i>Out-standing loan</i>	<i>persons employed</i>	<i>Total emoluments</i>	<i>Total input</i>	<i>Total output</i>	<i>Depre-ciation</i>	<i>Value added</i>	<i>Factor of payment</i>	<i>Net income</i>
(1)	(2)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1.	40	29.99	36.00	10.33	17.04	1.66	5.19	17.50	18.44	44.81	4.66
2.	31	17.02	19.28	5.89	14.15	14.55	15.58	32.48	17.58	11.38	20.77
3.	30	11.03	12.78	2.88	4.17	39.06	32.94	11.29	10.03	15.49	7.16
4.	20 & 21	5.26	5.85	39.04	9.84	17.84	15.91	4.87	9.40	3.85	12.27
5.	23	5.50	4.46	7.39	10.61	4.88	5.54	6.38	8.23	4.04	10.39
6.	36	5.35	5.29	2.73	6.54	4.81	5.29	4.24	7.48	6.47	7.99
7.	28	3.79	1.98	3.63	7.35	3.14	3.58	6.88	4.98	2.25	6.39
8.	32	1.26	1.02	5.10	5.38	1.08	1.63	1.89	3.91	0.90	5.47
9.	26	1.61	0.76	1.98	2.84	2.69	2.78	0.89	3.41	0.57	4.88
10.	22	0.78	0.58	7.18	3.90	1.44	1.76	1.19	3.19	0.46	4.61

(1)	(2)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
11.	33	2.74	1.59	1.30	3.25	2.66	2.67	1.82	2.83	1.10	3.80
12.	27	1.54	1.20	5.23	3.51	2.04	2.12	1.78	2.56	1.39	3.31
13.	37	10.99	7.41	1.77	3.50	1.24	1.54	5.43	2.30	4.96	0.91
14.	97	0.29	0.05	2.26	4.05	0.85	1.08	0.46	2.12	0.08	3.18
15.	38	0.74	0.49	0.63	1.09	0.66	0.77	0.56	1.28	0.70	1.58
16.	35	1.19	0.56	1.34	2.32	0.46	0.60	1.19	1.14	0.82	1.31
17.	34	0.72	0.69	1.21	1.16	0.89	0.87	0.81	0.80	0.72	0.84
18.	42	0.19	..	0.09	0.17	0.08	0.14	0.32	0.30	..	0.46
Total		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

TABLE 48

## Principal Characteristics for Each Major Industry Group (Percentage)

<i>Sl.No.</i>	<i>Major industry group</i>	<i>Description</i>	<i>Number of unit.</i>	<i>Fixed capital</i>	<i>Working capital</i>	<i>Productive capital</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	31	Manufacture of chemical and chemical products	5.10	16.10	22.47	17.97
2.	40	Electricity	0.22	40.97	15.35	33.45
3.	30	Manufacture of rubber, plastic, petroleum and coal products	5.16	7.84	4.38	6.82
4.	20 & 21	Manufacture of food products	18.60	2.29	10.71	4.76
5.	36	Manufacture of electrical machinery, apparatus appliances and supplies and parts	2.27	3.54	8.53	5.01
6.	23	Manufacture of cotton textiles	5.10	4.20	4.45	4.28
7.	32	Manufacture of non-metallic mineral products	9.66	1.29	2.63	1.68
8.	28	Manufacture of paper and paper products and printing and publishing and allied industries	4.75	6.69	6.82	6.73
9.	37	Manufacture of transport equipment and parts	1.04	10.33	5.88	9.03

(1)	(2)	(3)	(4)	(5)	(6)	(7)
10.	26	Manufacture of textile products (including wearing apparel other than foot wear)	2.86	0.71	5.22	2.03
11.	27	Manufacture of wood and wood products, furniture and fixtures	21.02	0.91	2.80	1.46
12.	33	Basic metal and alloys industries	1.45	1.03	3.83	1.85
13.	22	Manufacture of beverages, tobacco and tobacco products	11.33	0.43	1.26	0.67
14.	35	Manufacture of machinery, machine tools and parts, except electrical machinery	2.36	0.85	2.06	1.20
15.	97	Repair services	3.37	0.32	0.49	0.37
16.	38	Other manufacturing industries	0.91	0.47	0.50	0.48
17.	34	Manufacture of metal and parts except machinery and transport equipment	4.40	0.98	2.52	1.44
18.	42	Water works and supply	0.22	0.79	0.02	0.56
19.	29	Manufacture of leather and leather fur products (except repair)	0.18	0.26	0.08	0.21
Total			100.00	100.00	100.00	100.00



TABLE 48 (Contd.)

<i>Sl.No.</i>	<i>Major Industry group</i>	<i>invested capital</i>	<i>Out- standing loan</i>	<i>Person employed</i>	<i>Total emo- luments</i>	<i>Total input</i>	<i>Total output</i>	<i>Depre- ciation</i>	<i>Value added</i>	<i>Factor of payment</i>	<i>Net- income</i>
(1)	(2)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1.	31	17.34	12.40	6.55	16.16	14.97	16.22	32.31	19.58	15.16	21.34
2.	40	30.66	34.85	7.97	15.80	1.76	5.01	18.28	17.55	24.54	14.77
3.	30	10.36	10.45	2.78	4.27	43.97	37.26	11.04	11.30	18.68	8.37
4.	20 & 21	5.08	5.53	41.72	9.63	14.62	13.46	4.30	9.54	5.75	11.05
5.	36	4.62	4.65	2.74	5.83	4.36	4.54	4.53	5.33	7.80	4.35
6.	23	4.48	3.80	6.27	7.92	3.48	3.82	5.62	5.10	4.44	5.36
7.	32	1.40	1.03	5.11	6.08	1.13	1.73	2.33	4.26	1.07	5.53
8.	28	6.66	14.11	3.98	7.98	3.51	3.70	6.67	4.17	7.83	2.71
9.	37	9.69	6.55	1.70	3.67	1.40	1.94	5.41	3.85	6.68	2.72
10.	26	1.74	0.77	1.99	2.98	1.22	2.44	0.86	3.58	0.84	4.67

(1)	(2)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
11.	27	1.34	1.19	4.98	3.34	1.80	1.98	1.43	2.85	1.54	3.37
12.	33	1.64	0.78	0.92	2.59	2.26	2.32	1.21	2.78	1.07	3.45
13.	22	0.60	0.13	7.30	4.10	1.13	1.37	0.90	2.48	0.19	3.38
14.	35	1.34	1.45	1.69	2.85	0.58	0.89	1.23	2.20	1.22	2.59
15.	97	0.29	0.03	2.15	3.83	0.72	0.94	0.41	2.00	0.06	2.77
16.	38	0.70	0.79	0.58	1.11	0.57	0.75	0.73	1.52	1.10	1.69
17.	34	1.37	0.92	1.35	1.57	1.42	1.44	1.52	1.47	1.46	1.48
18.	42	0.49	0.29	0.12	0.20	0.09	0.18	1.04	0.46	0.20	0.57
19.	29	0.20	0.28	0.06	0.06	0.06	0.02	0.17	(—)0.03	0.35	(—)0.18
Total		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

4.3 The structural ratios in respect of each of the major groups of industries for the years 1980-81 and 1981-82 are presented in table 49 and 50. The industry groups are arranged in the ascending order of capital value added ratio. The tables show that the different respective ratios of 'all industries taken together (state level ratios)' have undergone only slight changes in 1980-81 and 1981-82.

The 49 shows that during the year 1980-81 the ratio of fixed capital to value added (9.91) was the highest in '37-Manufacture of transport equipment and parts' and the same was the lowest (0.32) in '97-repair services'. The fixed capital per employee, emoluments per employee, output per employee, and value added per employee were the lowest in '22-Manufacture of beverages' 'tobacco and tobacco products' with Rs. 2744, Rs. 3275, Rs. 18253 and Rs. 6160 respectively. The above per employee ratios, namely fixed capital per employee emoluments per employee output per employee and value added per employee were the highest in '37-Manufacture of transport equipments and parts' '33-Basic metal and alloys industries', '30-Manufacture of rubber, plastic, petroleum and coal products, and '30-Manufacture of rubber plastic petroleum and coal products' respectively, the respective amount being Rs. 178488, Rs. 15096, Rs. 848964 and Rs. 48175.

During 1981-82 the ratio of fixed capital to value added was the highest (5.50) in '37-Manufacture of transport equipments and parts' while the ratio was the lowest and negative in '29-Manufacture of leather and leather and fur products (except repair). The fixed capital per employee, emoluments per employee, output per employee and value added per employee were the lowest in '22-Manufacture of beverages, tobacco and tobacco products', '20-21 manufacture of food products', '22-Manufacture of beverages, tobacco and tobacco products and '29-Manufacture of leather and leather and fur products, respectively, the respective amounts being Rs. 1773, Rs. 1497, Rs. 15177 and Rs. (-)7862.

The detailed tables in respect of each industry of the state for the year 1980-81 and 1981-82 at three digit level are given in appendices.

TABLE 49

## Important Structural Ratios of Industry by Major Groups 1980-81

Sl. No.	Major industry code	Description of industry	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-employee (Rs.)	Emoluments per employec (Rs.)	Output per employee (Rs.)	Value added/employee (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1.	97	Repair of services	0.32	0.12	0.37	0.62	0.83	4105	10823	35422	12987
2.	26	Manufacture of textile products (including weaving apparel other than foot wear)	0.41	0.09	0.23	0.76	0.36	9777	8658	104546	23890
3.	22	Manufacture of beverages, tobacco and tobacco products	0.44	0.15	0.34	0.65	0.53	2744	3275	18253	6160
4.	32	Manufacture of non-metallic mineral products	0.66	0.29	0.45	0.52	0.60	6988	6355	23726	10616
5.	38	Other manufacturing industries	0.82	0.25	0.31	0.67	0.37	23060	10420	91273	28198
6.	27	Manufacture of wood and wood products, furniture and fixtures	0.83	0.19	0.23	0.75	0.58	5833	4054	30488	7031
7.	36	Manufacture of electrical machinery apparatus appliances and supplies and parts	1.06	0.28	0.26	0.72	0.33	40225	12463	144297	37985
8.	33	Basic metals and alloys industries	1.11	0.22	0.20	0.78	0.49	34101	15096	152562	30661
9.	30	Manufacture of rubber, plastic, petroleum and coal products	1.17	0.07	0.06	0.93	0.18	56289	8710	848964	48157
10.	23	Manufacture of cotton, textiles	1.31	0.36	0.28	0.69	0.56	20281	8667	55795	15428

11.	35	Manufacture of machinery, machine tools and parts except electrical machinery	1.36	0.48	0.35	0.60	0.89	15895	10419	33289	11709
12.	34	Manufacture of metal products and parts except machinery and transport equipment	1.49	0.26	0.17	0.80	0.63	13561	5763	53148	9109
13.	28	Manufacture of paper and paper products and printing, publishing and allied industries	1.50	0.39	0.26	0.69	0.64	20517	12188	73201	18971
14.	20 &										
	21	Manufacture of food products	1.55	0.16	0.21	1.77	0.88	15470	6768	161793	16067
15.	96	Personal service	1.60	1.34	0.47	0.48	0.76	16900	8062	22564	10545
16.	31	Manufacture of chemicals and chemical products (except products of petroleum and coal)	1.99	0.42	0.21	0.74	0.35	82470	14492	196621	41333
17.	42	Water works and supply	2.16	0.89	0.41	0.53	0.25	98236	11219	110893	45389
18.	40	Electricity	4.71	3.11	0.66	0.25	0.40	116335	9944	37354	24706
19.	37	Manufacture of transport equipment and parts	9.91	2.75	0.28	0.63	0.66	178488	11927	64853	18010
		All industries	2.04	0.38	0.19	0.79	0.43	28296	6030	74346	13065

TABLE 50

## Important structural Ratios of Industry by Major Groups 1981-82

Sl. No.	Major industry code	Description of industry	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 employee (Rs.)	emoluments per employee (Rs.)	output per employee (Rs.)	Value added per employee (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1.	29	Manufacture of leather and leather and fur products (except repair)	(-)15.30	5.70	0.37	1.13	(-)0.71	120284	5628	21114	(-)7862
2.	97	Repair services	0.33	0.13	0.38	0.60	0.85	4452	11526	35512	13657
3.	22	Manufacture of beverages tobacco and tobacco products	0.35	0.12	0.33	0.65	0.73	1779	3642	15177	4992
4.	26	Manufacture of textile products (including wearing apparel other than foot wear)	0.40	0.11	0.27	0.72	0.37	10710	9730	99596	26578
5.	20 & 21	Manufacture of food products	0.49	0.06	0.13	0.86	0.44	1657	1497	26186	3369*
6.	32	Manufacture of non-metallic mineral products	0.62	0.28	0.45	0.52	0.63	7613	7726	27511	12302
7.	38	Other manufacturing industries	0.63	0.23	0.37	0.61	0.32	24387	12318	104275	38511
8.	27	Manufacture of wood and wood products, furniture and fixtures	0.65	0.17	0.26	0.72	0.52	5507	4365	32282	8489
9.	33	Manufacture of basic metal and alloys industries	0.76	0.16	0.22	0.77	0.41	33500	18218	20416	44227

10.	35	Manufacture of machinery machine tools and parts except electrical machinery	0.79	0.35	0.45	0.52	0.57	15119	10950	42875	19215
11.	36	Manufacture of electrical machinery apparatus, appliances and supplies and parts	1.36	0.29	0.21	0.76	0.48	38999	13810	134602	28687
12.	34	Manufacture of metal products and parts except Machinery and transport equipment	1.36	0.25	0.19	0.79	0.47	21868	7531	86097	16018
13.	30	Manufacture of rubber, plastic petroleum and coal products	1.42	0.08	0.05	0.94	0.17	84964	9957	1087455	59827
14.	31	Manufacture of chemicals and chemical products (except products of petroleum and coal)	1.68	0.37	0.22	0.73	0.36	74083	15997	200916	44021
15.	23	Manufacture of cotton textiles	1.69	0.41	0.24	0.72	0.68	20217	8203	49494	11991
16.	28	Manufacture of paper and paper products and printing publishing, and allied industries	3.29	0.67	0.20	0.75	0.84	50695	13007	75459	15424
17.	42	Water works and supply	3.49	1.64	0.47	0.39	0.19	194119	10645	118671	55626
18.	40	Electricity	4.78	3.04	0.63	0.28	0.40	154985	12850	51041	32432
19.	37	Manufacture of transport equipment and parts	5.50	1.98	0.36	0.57	0.42	183436	13997	92680	33339
		All industries	2.04	0.37	0.18	0.79	0.44	30163	6487	81202	14734

## APPENDIX I

## Annual Survey of Industries 1980-81 and 1981-82 at a glance

Value

<i>Sl. No.</i>	<i>Item</i>	<i>Unit</i>	1980-81	1981-82
(1)	(2)	(3)	(4)	(5)
1.	Number of factories covered	No.	2926	3178
2.	Fixed capital	Rs. in lakhs	79601.67	91210.18
3.	Working capital	"	47956.24	37936.78
4.	Invested capital	"	136007.27	148819.94
5.	Outstanding loan	"	99291.38	118149.85
6.	Workers	No.	232566	251510
7.	All employees	No.	281289	302389
8.	Mandays worked	No. in thousand	63394	65845
9.	Wages to workers	Rs. in lakhs	10417.63	12608.55
10.	Total emoluments	"	16959.16	19615.41
11.	Fuels consumed	"	7826.99	9357.50
12.	Materials consumed	"	139892.14	168043.69
13.	Other input	"	17046.40	17801.43
14.	Total input	"	164765.53	195202.62
15.	Products	"	191318.38	231349.17
16.	Other output	"	17842.79	14197.59
17.	Total output	"	209161.17	245546.76
18.	Depreciation	"	5392.70	5790.14
19.	Total rent	"	228.93	286.59
20.	Value added	"	39002.94	44554.00
21.	Factor payments	"	13360.05	12668.12
22.	Net income	"	25642.89	31885.88



## APPENDIX II

**Census and sample sector results—Annual Survey of Industries  
1981-82**

<i>Sl. No.</i>	<i>Items</i>	<i>Unit</i>	<i>Census</i>	<i>Sample</i>	<i>Total</i>
(1)	(2)	(3)	(4)	(5)	(6)
1.	Number of factories	No.	720	2458	3178
2.	Fixed capital	Rs. in lakhs	84300.26	6909.92	91210.18
3.	Working capital	„	32860.29	5076.49	37936.78
4.	Invested capital	„	136066.58	12753.36	148819.94
5.	Outstanding loans	„	109697.63	8452.22	118149.85
6.	Workers	No.	197646	53864	251510
7.	All employees	No.	238236	64153	302389
8.	Mandays worked	No. in thousand	4866	60979	65845
9.	Wages to workers	Rs. in lakhs	10548.81	2059.74	12608.55
10.	Total emoluments	„	16642.33	2973.08	19615.41
11.	Fuels consumed	„	8232.93	1124.57	9357.50
12.	Materials consumed	„	145406.02	22637.67	168043.69
13.	Other input	„	16051.42	1750.01	17801.43
14.	Total input	„	169690.37	25512.25	195202.62
15.	Products	„	203775.23	27573.94	231349.17
16.	Other output	„	9631.79	4565.80	14197.59
17.	Total output	„	213407.02	32139.74	245546.76
18.	Depreciation	„	5123.59	666.55	5790.14
19.	Total rent	„	126.21	160.38	286.59
20.	Value added	„	38593.06	5960.94	44554.00
21.	Factors payments	„	11452.37	1215.75	12668.12
22.	Net income	„	27140.69	4745.19	31885.88

## APPENDIX III

## Important constituents of fixed capital by major industry groups (Rs. in lakhs)

Sl. No.	Major industry code	Description	ASF 1980-1981							
			Land	Improvement to land	Building	Plant and machinery	Transport equipment	Tools and other fixed assets	Assets under construction	Total fixed assets
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1.	20 & 21	Manufacture of food products	205.81	13.55	646.95	1121.91	165.81	88.20	14.94	2257.17
2.	22	Manufacture of beverages; tobacco and tobacco products	7.29	4.69	185.34	503.80	17.78	22.76	12.58	554.24
3.	23	Manufacture of cotton textiles	91.16	16.93	665.80	2854.51	31.79	84.91	468.03	4215.13
4.	26	Manufacture of textiles products (including wearing apparel other than foot wear)	40.81	0.60	245.26	197.96	23.31	20.05	15.60	543.59
5.	27	Manufacture of wood and wood product (furniture and fixtures)	122.88	5.46	227.74	445.34	32.07	23.08	1.09	857.66
6.	28	Manufacture of paper and paper products and printing, publishing and allied industries	74.07	5.43	575.33	2116.93	38.84	104.04	0.40	2915.04
7.	30	Manufacture of rubber, plastic, petroleum and coal products	125.25	88.84	607.10	2674.97	44.27	103.93	922.97	4567.33
8.	31	Manufacture of chemical and chemical products (except products of petroleum and coal)	507.58	174.02	2069.26	8663.04	110.56	643.05	1497.74	13665.25

9.	32	Manufacture of glass and products	91.38	6.63	295.22	523.69	30.76	54.55	0.68	1002.91
10.	33	Basic metal and alloy industries	73.65	13.88	295.35	739.44	17.33	31.92	75.51	1247.08
11.	34	Manufacture of metal products and parts except machinery and transport equipments	33.46	2.25	129.77	264.84	17.30	14.78	0.18	462.56
12.	35	Manufacture of machinery, machine tools and parts except electrical machinery	21.84	25.45	165.70	272.21	9.56	80.42	25.18	600.36
13.	36	Manufacture of electrical machinery apparatus, appliances and supplies and parts	100.37	27.65	797.55	1683.51	40.62	145.20	292.33	3087.23
14.	37	Manufacture of transport equipments and parts	390.22	4082.83	1216.59	2871.07	251.76	69.47	4.98	8886.92
15.	38	Other manufacturing industries	4.32	5.10	104.20	201.77	6.65	41.55	43.20	406.79
16.	40	Electricity	423.44	..	1571.18	5692.05	104.15	20649.38	5378.38	39818.58
17.	42	Water works and supply	100.32	1.00	95.64	56.32	0.83	0.32	..	254.43
18.	97	Repair services	44.03	1.36	94.18	87.75	16.02	17.75	0.31	261.40
			2457.86	4475.67	9988.16	30771.11	959.41	22195.36	8754.10	79601.67

## APPENDIX IV

## Important constituents of fixed capital by major industry groups ASI 1981-82

(Rs. lakhs)

Major industry code	Description	Land	Improvement to land	Building	Plant and machinery	Transport equipment	Tools and other fixed assets	Assets under construction	Total fixed capital
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20 & 21	Manufacture of food products	169.95	10.56	583.46	1028.25	160.54	89.92	47.60	2090.28
22	Manufacture of beverages, tobacco and tobacco products	9.09	4.70	176.80	160.81	6.52	19.19	14.67	391.79
23	Manufacture of cotton textiles	83.39	31.81	608.42	2866.06	28.96	71.09	143.30	3833.02
26	Manufacture of textile products (including wearing apparel other than footwear)	52.92	1.42	278.69	236.14	20.18	23.08	31.12	643.55
27	Manufacture of wood products, furniture and fixtures	144.12	5.29	216.27	414.30	56.83	17.27	4.56	828.65
28	Manufacture of paper and paper products and printing and publishing and allied industries	228.67	188.97	1147.29	2348.25	107.56	212.52	1871.43	6104.70
29	Manufacture of leather and leather and fur products (except repairs)	1.51	2.14	84.04	148.42	2.82	0.81	0.81	240.57
30	Manufacturing of rubber, plastic petroleum and coal products	126.70	104.92	599.36	2744.28	41.91	233.82	3297.91	7148.89
31	Manufactures of chemical and chemical products	554.93	252.99	2380.38	8952.00	98.66	727.20	1716.53	14682.69

32	Manufacture of non-metallic mineral products	129.09	10.65	362.65	547.04	40.47	78.94	6.61	1175.46
33	Basic metal and alloys industries	53.75	9.85	186.53	413.68	13.21	22.87	236.76	936.67
34	Manufacturing of metal products and parts except machinery and transport equipments	60.85	5.52	213.90	490.79	40.20	67.91	16.13	895.29
35	Manufacture of machinery, machine tools, except electrical machinery	29.99	19.40	193.10	317.71	10.44	83.92	118.35	772.90
36	Manufacture of electrical machinery, apparatus appliances and supplies and parts	101.10	32.81	723.90	1740.58	39.68	125.53	465.92	3229.52
37	Manufacture of transport equipment and parts	394.31	4012.95	1245.12	3052.11	295.98	71.94	350.68	9423.09
38	Other manufacturing industries	5.78	11.74	149.71	193.39	9.34	53.89	5.36	429.71
40	Electricity	512.80	..	1693.86	6134.87	128.31	22542.05	6361.24	37373.11
42	Water works and supply	126.96	23.76	120.87	447.14	0.74	0.71	..	720.18
97	Repair services	55.45	0.76	118.80	85.79	13.20	16.11	..	290.11
All Industries		2811.35	4730.23	11083.17	32321.63	1115.65	24458.77	14689.48	91210.18

## APPENDIX V

## Important Characteristics by industry groups, factory sector

(3 DIGIT LEVEL OF NIC 1970)

Annual survey of industries, 1980-81

(Rs. in lakhs)

Sl. No.	Industry Code	Name of industry	Number of units	Total fixed capital	working capital	Productive capital	Invested capital	Outstanding loan	Workers (No.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1.	201	Manufacture of dairy product	5	84.25	4.92	89.17	103.79	23.12	467
2.	202	Canning & preservation of fruits and vegetables	15	43.63	66.04	109.67	202.76	140.99	558
3.	203	Canning and processing of fish	67	538.91	8.31	547.22	885.93	909.60	1534
4.	204	Manufacture of grain mill products	53	88.82	42.27	131.09	138.49	98.36	692
5.	205	Manufacture of bakery products	7	112.25	207.16	319.41	279.85	87.53	1082
6.	211	Manufacture of other edible oils	56	327.13	399.00	726.13	1183.21	225.13	882
7.	212	Tea processing	84	566.27	959.11	1525.38	1639.60	458.57	4619
8.	213	Coffee curing, roasting and grinding	6	21.79	60.59	82.38	43.42	16.27	606
9.	214	Cashewnut processing	268	296.80	1608.09	1904.89	2319.81	3423.50	85644
10.	215	Manufacture of ice	10	27.72	10.87	38.59	36.20	42.65	68
11.	217	Manufacture of starch	8	102.68	208.56	311.25	258.67	320.65	351
12.	219	Manufacture of food products—others	10	46.92	27.62	74.53	71.87	61.58	100

13.	220	Distilling and blending of spirits	6.	316.46	297.45	613.91	635.83	391.37	368
14.	222	Manufacture of malt liquors and malt	4	107.73	59.27	167.00	187.88	101.85	414
15.	223	Production of country liquor and toddy	3	109.11	26.89	136.00	132.49	74.78	27
16.	226	Manufacture of beedi	336	20.33	97.31	117.64	96.87	6.85	18473
17.	227	Manufacture of cigar and cigarettes	3	0.62	7.07	7.69	8.73	..	46
18.	231& 232	Cotton spinning and weaving in mills, printing and dyeing of cotton textiles	27	3196.59	1990.18	5186.77	5529.56	3093.40	12043
19.	235	Weaving and finishing of textiles -- handloom	106	155.12	278.10	433.22	403.70	271.47	4218
20.	236	Weaving and finishing--powerlooms	16	145.07	20.39	165.47	189.73	131.75	447
21.	239	Cotton textiles not elsewhere classified	4	716.34	126.92	843.26	1358.70	933.85	638

<i>Sl. No.</i>	<i>Industry code</i>	<i>Name of Industry</i>	<i>All employees No.</i>	<i>Wages to workers</i>	<i>Total emoluments</i>	<i>Fuels consumed</i>	<i>Materials consumed</i>	<i>Total input</i>	<i>Products</i>	<i>Other output</i>
(1)	(2)	(3)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1.	201	Manufacture of dairy products	584	41.38	63.20	22.02	503.15	580.05	649.06	17.18
2.	202	Canning & preservation of fruits and vegetables	658	14.95	22.73	7.28	540.33	565.09	576.82	20.89
3.	203	Canning and processing of fish	2364	43.35	96.86	128.55	3906.41	4543.56	4664.08	332.50
4.	204	Manufacture of grain mill products	875	21.16	35.58	16.87	1188.62	1237.89	1334.58	25.64
5.	205	Manufacture of bakery products	1661	59.96	118.48	36.04	519.75	624.02	834.71	12.77
6.	211	Manufacture of other edible oils	1150	34.43	55.29	26.06	5514.59	7966.75	5393.46	2439.68
7.	212	Tea processing	5145	157.29	237.89	357.02	5860.04	6442.71	7440.99	21.51
8.	213	Coffee curing, roasting and grinding	767	15.22	25.48	2.14	105.70	135.51	110.98	66.00
9.	214	Cashewnut processing	95886	582.64	961.65	61.29	5471.62	6538.98	7169.37	910.31
10.	215	Manufacture of ice	80	3.91	5.94	7.11	102.69	129.38	133.11	8.11
11.	217	Manufacture of starch	496	22.55	39.93	52.05	320.02	401.87	627.81	6.55
12.	219	Manufacture of food products-others	167	2.40	5.39	2.51	55.72	179.01	83.25	90.43
13.	220	Distilling and blending of spirits	557	30.03	60.71	38.15	537.87	603.82	993.52	93.42



14.	222	Manufacture of malt liquors and malt	473	17.70	27.26	18.42	143.78	180.30	200.89	48.02
15.	223	Production of country liquor and toddy	42	2.27	4.05	9.40	6.86	31.06	222.19	(-) 0.08
16.	226	Manufacture of beedi	19072	498.47	566.34	3.84	952.58	1434.97	2020.91	41.09
17.	227	Manufacture of cigar and cigarettes	57	2.18	3.19	0.03	44.15	49.00	66.98	0.40
18.	231 & 232	Cotton spinning and weaving in mills, printing and dyeing of cotton textiles	13270	944.49	1271.43	274.88	4403.15	5555.72	7865.71	480.60
19.	235	Weaving and finishing of textiles—handloom	4845	147.34	203.54	20.98	744.78	925.43	1185.06	24.06
20.	236	Weaving and finishing—powerlooms	593	15.87	25.42	7.30	94.52	125.93	139.48	1.93
21.	239	Cotton textiles not elsewhere classified	2066	200.67	300.09	311.12	991.68	1434.46	1786.55	107.45

<i>Sl. No.</i>	<i>Industry code</i>	<i>Name of Industry</i>	<i>Total output</i>	<i>Depreciation</i>	<i>Value added</i>
(1)	(2)	(3)	(19)	(20)	(21)
1.	201	Manufacture of dairy product	666.24	6.27	79.93
2.	202	Canning & preservation of fruits and vegetables	597.71	3.07	29.55
3.	203	Canning and processing of fish	4996.58	66.42	386.60
4.	204	Manufacture of grain mill products	1360.22	10.31	112.01
5.	205	Manufacture of bakery products	874.48	13.13	210.33
6.	211	Manufacture of other edible oils	8133.15	24.09	142.31
7.	212	Tea processing	7462.50	86.95	932.85
8.	213	Coffee curing, roasting and grinding	176.98	2.02	39.44
9.	214	Cashewnut processing	8079.68	33.24	1507.46
10.	215	Manufacture of ice	141.22	3.07	8.78
11.	217	Manufacture of starch	634.36	8.45	224.03
12.	219	Manufacture of food products—others	173.68	5.87	(-)11.20
13.	220	Distilling and blending of spirits	1086.94	47.84	355.28
14.	222	Manufacture of malt liquors and malt	248.92	10.67	57.95
15.	223	Production of country liquor and toddy	222.11	3.21	187.84

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16.	226	Manufacture of beedi	2062.00	2.02	625.01
17.	227	Manufacture of cigar and cigarettes	67.38	0.03	18.35
18.	231/ 232	Cotton spinning and weaving in mills, printing and dyeing of cotton textiles	8346.31	276.21	2514.38
19.	235	Weaving and finishing of textiles—handlooms	1209.12	13.77	269.92
20.	236	Weaving and finishing—powerlooms	141.41	8.68	6.81
21.	239	Cotton textiles not elsewhere classified	1893.99	45.68	413.85

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(Rs. in lakhs)

Sl. No.	Industry code	Name of industry	Number of units	Total fixed capital	Working capital	Productive capital	Invested capital	Outstanding loan	All workers (No.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
22.	260	Knitting mills	5	23.38	20.03	43.41	53.53	57.20	310
23.	261/ 264	Manufacture of all types of threads, cordage, ropes, twines, nets, etc.	3	225.32	962.03	1187.35	1191.44	27.68	1965
24.	265	Manufacture of umbrellas, raincoats, hats, etc.	8	1.75	1.91	3.66	4.14	2.27	122
25.	268	Manufacture of coir and coir products	77	293.13	292.73	585.86	947.08	664.17	2232
26.	270	Manufacture of veneer, plywood and their products	70	491.81	630.68	1122.49	1278.42	828.32	2939
27.	271	Sawing and planing of wood (other than plywood)	489	278.07	332.91	610.98	602.58	245.28	8063
28.	272	Cane and bamboo works	8	8.21	16.75	24.95	25.17	7.37	76
29.	273	Manufacture of wooden doors and windows	5	11.51	12.22	9.29	22.13	10.91	43
30.	271/ 275	Manufacture of wooden industrial goods	13	7.83	8.03	15.86	20.13	14.72	154
31.	276/ 279	Manufacture of wooden furniture and fixtures	21	60.23	95.71	155.94	146.30	81.14	732
32.	280	Manufacture of paper and paper board	9	1966.83	1251.49	3218.32	3653.88	860.73	2594
33.	281	Manufacture of containers and boxes of paper	12	33.90	88.90	122.80	88.68	63.45	220

34.	284	Printing and publishing of newspaper	16	250.08	350.13	600.21	512.91	500.28	1108
35.	285	Printing and publishing of books and journals	59	443.48	259.56	703.04	593.47	365.95	2914
36.	288/ 289 & 290	Printing of pictures and post cards	32	220.75	105.77	326.53	305.95	175.80	812
37.	300	Tyre and tube industries	14	2544.46	1405.46	3949.92	3739.00	4538.51	1450
38.	302	Manufacture of rubber products-others	134	641.81	653.13	1294.93	1539.96	1224.13	4244
39.	303	Manufacture of plastic and plastic products	7	1368.72	5742.78	7101.51	9701.71	6881.71	336
40.	305	Manufacture of products of petroleum not elsewhere classified	4	12.34	0.94	13.27	14.63	47.79	26

<i>Sl. No.</i>	<i>Industry code</i>	<i>Name of industry</i>	<i>All employees (No.)</i>	<i>Wages to workers</i>	<i>Total emoluments</i>	<i>Fuels consumed</i>	<i>Materials consumed</i>	<i>Total input</i>	<i>Products</i>	<i>Other output</i>
(1)	(2)	(3)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
22.	260	Knitting mills	425	7.83	15.02	4.68	81.32	94.75	119.47	2.54
23.	261/ 264	Manufacture of all types of threads, cordage, ropes, twines, nets, etc.	2346	223.53	302.99	76.58	1378.01	1520.02	2344.51	108.36
24.	265	Manufacture of umbrellas, rain coats, hats, etc.	138	4.06	5.04	0.43	10.64	12.04	16.12	2.63
25.	268	Manufacture of coir and coir products	2651	94.62	158.32	22.19	2612.89	2809.90	3128.94	90.19
26.	270	Manufacture of veneer, plywood and their products	3795	154.45	266.78	97.35	976.60	1220.29	1762.64	25.08
27.	271	Sawing and planing of wood (other than plywood)	9593	179.66	241.86	41.77	1420.50	1728.03	1886.64	255.21
28.	272	Cane and bamboo works	100	2.60	3.78	1.81	79.01	130.04	94.28	50.29
29.	273	Manufacture of wooden doors and windows	54	2.76	4.01	0.24	27.98	32.42	34.39	4.03
30.	274/ 275	Manufacture of wooden industrial goods	191	5.41	6.77	0.68	42.19	60.51	65.88	11.47
31.	276/ 279	Manufacture of wooden furniture and fixtures	970	58.14	72.81	4.35	157.64	181.92	283.00	9.67
32.	280	Manufacture of paper and paper board	3301	443.79	652.57	864.60	1683.90	2743.50	4020.93	62.62
33.	281	Manufacture of containers and boxes of paper	294	9.73	18.26	2.26	194.07	214.97	272.63	14.55
34.	284	Printing and publishing of newspaper	2016	111.13	260.14	12.50	1337.16	1557.88	1842.50	187.70
35.	285	Printing and publishing of books and journals	3528	183.20	254.14	9.21	336.17	399.87	538.85	211.94

36.	288/ 289 & 290	Printing picture and post cards	1083	39.09	60.73	4.68	184.53	256.01	276.57	54.28
37.	300	Tyre and tube industries	2213	165.53	277.89	170.54	2943.63	3299.01	3866.17	181.68
38.	302	Manufacture of rubber products-others	5351	202.11	331.58	166.89	5614.36	6305.45	7262.64	423.30
39.	303	Manufacture of plastic and plastic products	510	39.21	95.75	69.69	54497.28	54753.55	55951.13	1184.67
40.	305	Manufacture of products of petroleum not elsewhere classified	40	0.74	1.53	0.56	7.13	10.78	10.05	5.30

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<i>Sl. No.</i>	<i>Industry code</i>	<i>Name of industry</i>	<i>Total output</i>	<i>Depreciation</i>	<i>Value added</i>
(1)	(2)	(3)	(19)	(20)	(21)
22.	260	Knitting mills	122.01	2.76	24.50
23.	261/ 264	Manufacture of all types of threads, cordage, ropes, twines, nets, etc.	2452.87	17.29	915.57
24.	265	Manufacture of umbrellas, rain coats, hats, etc.	18.75	0.19	6.52
25.	268	Manufacture of coir and coir products	3219.13	27.52	381.71
26.	270	Manufacture of veneer, plywood and their products	1787.73	63.41	504.03
27.	271	Sawing and planing of wood (other than plywood)	2141.84	25.14	388.67
28.	272	Cane and bamboo works	144.57	0.80	13.74
29.	273	Manufacture of wooden doors and windows	98.47	1.02	5.03
30.	274/ 275	Manufacture of wooden industrial goods	77.36	0.68	16.17
31.	276/ 279	Manufacture of wooden furniture and fixtures	292.68	4.68	106.08
32.	280	Manufacture of paper and paper board	4083.54	288.43	1051.62
33.	281	Manufacture of containers and boxes of paper	287.18	3.62	68.58
34.	284	Printing and publishing of newspaper	2030.21	27.33	445.00
35.	285	Printing and publishing of books and journals	750.79	41.06	309.86
36.	288/ 289 & 290	Printing of pictures and post cards	330.85	10.66	64.18
37.	300	Tyre and tube industries	4047.85	316.10	432.74
38.	302	Manufacture of rubber products—others	7685.94	85.35	1295.14
39.	303	Manufacture of plastic and plastic products	57135.80	206.05	2176.20
40.	305	Manufacture of products of petroleum not elsewhere classified	15.35	1.22	3.35



(Rs. in lakhs)

Sl. No.	Industry Code	Name of Industry	Number of units	Total fixed capital	Working capital	Productive capital	Invested capital	Outstanding loan	All workers
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41.	310	Manufacture of organic and inorganic chemicals	31	2566.49	1931.70	4498.19	4363.02	2963.61	3029
42.	311	Manufacture of fertilisers and pesticides	20	8863.47	4909.64	13773.11	14423.36	14041.16	4110
43.	313	Manufacture of drugs and medicines	38	384.23	364.91	749.14	749.50	430.72	1369
44.	314	Manufacture of perfumes and lotions	11	514.82	977.88	1492.70	1860.94	1435.79	1586
45.	315	Manufacture of edible oils	9	186.24	114.02	300.26	390.15	190.75	613
46.	316	Manufacture of turpentine	6	1131.62	184.77	1316.39	1336.14	66.95	947
47.	317	Manufacture of matches	15	18.38	7.09	25.48	25.69	13.23	257
48.	320	Manufacture of structural clay products	256	629.46	421.49	1050.95	1054.14	577.15	11016
49.	323	Manufacture of china ware and porcelainware	10	71.10	64.45	135.55	136.05	394.48	858
50.	324	Manufacture of cement	5	27.00	102.58	129.58	92.55	3.34	276
51.	329	Manufacture of non-metallic mineral products	5	275.34	210.36	485.70	424.80	35.60	391
52.	330	Iron and Steel industries	9	325.65	305.80	631.45	601.04	637.77	609
53.	331	Casting and forging of iron and steel	23	234.60	145.02	379.62	514.53	480.57	662
54.	333	Copper manufacturing	2	3.39	2.01	5.40	8.95	11.98	46

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
55.	335	Aluminium manufacturing	7	683.43	1096.20	1779.64	2597.22	451.01	1161
56.	340	Manufacture of metal cans from tin plate	55	242.91	209.06	451.97	464.37	257.89	687
57.	341	Manufacture of structural metal products	16	8.25	45.05	53.30	60.27	20.55	272
58.	342	Manufacture of metal furniture and fixtures	6	14.66	9.25	23.91	31.66	13.85	206
59.	343	Manufacture of hand tools and hardware	23	153.95	125.22	279.17	298.13	298.45	872
60.	345	Manufacture of metal utensils and cutlery	13	32.11	24.98	57.09	111.30	80.22	391
61.	349	Manufacture of metal products—others	4	10.68	10.73	12.41	18.81	10.59	32

Sl. No.	Industry code	Name of Industry	All employees	Wages to workers	Total emoluments	Fuels consumed	Materials consumed	Total input	Products	Other output
(1)	(2)	(3)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
41.	310	Manufacture of organic and in-organic chemicals	4179	443.69	722.58	876.30	2631.32	4140.07	6341.37	264.49
42.	311	Manufacture of fertilisers and pesticides	6012	598.34	924.06	1385.97	9211.27	11498.66	15835.56	141.83
43.	313	Manufacture of drugs and medicines	2049	92.93	79.78	69.78	822.32	971.05	1417.05	26.97
44.	314	Manufacture of perfumes and lotions	1971	155.41	246.53	253.90	4592.28	5008.10	5789.54	96.37
45.	315	Manufacture of edible oils	789	23.62	40.91	31.28	694.86	1068.20	916.71	329.06
46.	316	Manufacture of turpentine	1269	148.63	231.50	193.04	994.91	1258.61	1365.86	6.27
47.	317	Manufacture of matches	301	4.14	6.11	2.35	27.61	34.95	49.60	(—) 0.63
48.	320	Manufacture of structural clay products	12471	522.14	723.41	551.49	350.74	1079.55	2298.36	32.45
49.	323	Manufacture of china ware and porcelainware	1021	48.43	70.31	61.22	21.05	103.81	166.60	5.26
50.	324	Manufacture of cement	348	36.16	56.38	173.67	138.87	337.45	445.87	2.53
51.	329	Manufacture of non-metallic mineral products	512	34.59	61.96	34.05	200.94	258.65	449.89	4.11
52.	330	Iron and Steel industries	911	79.75	146.70	140.82	1180.77	1491.86	1703.61	210.58

(1)	(2)	(3)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
53.	331	Casting and forging of iron and steel	1009	57.07	111.57	60.97	734.36	843.30	963.13	31.40
54.	333	Copper manufacturing	50	0.95	1.25	0.52	1.46	2.66	1.48	1.85
55.	335	Aluminium manufacturing	1687	167.32	292.55	428.54	1309.83	2022.31	2619.22	47.91
56.	340	Manufacture of metal cans from tin plate	1123	35.78	63.30	10.30	533.20	695.11	670.62	106.54
57.	341	Manufacture of structural metal products	409	14.17	33.09	2.33	71.75	92.67	143.56	(- )9.22
58.	342	Manufacture of metal furniture and fixtures	258	5.76	9.91	0.46	35.73	39.17	48.44	1.86
59.	343	Manufacture of hand tools and hardware	1104	42.57	71.40	45.61	317.44	406.22	556.15	25.39
60.	345	Manufacture of metal utensils and cutlery	475	12.12	17.22	11.02	178.01	210.45	242.68	6.47
61.	349	Manufacture of metal products-others	42	0.89	1.65	0.11	13.56	14.31	19.60	0.79

<i>Sl. No.</i>	<i>Industry Code</i>	<i>Name of industry</i>	<i>Total</i>	<i>Depreciation</i>	<i>Value added</i>
(1)	(2)	(3)	(19)	(20)	(21)
41.	310	Manufacture of organic and inorganic chemicals	6605.86	345.16	2120.63
42.	311	Manufacture of fertilizers and pesticides	15977.89	1125.83	3352.90
43.	313	Manufacture of drugs and medicines	1444.02	29.12	443.84
44.	314	Manufacture of perfumes and lotions	5885.91	52.25	825.56
45.	315	Manufacture of edible oils	1245.77	22.21	155.36
46.	316	Manufacture of turpentine	1372.14	175.95	(—)62.43
47.	317	Manufacture of matches	48.97	1.02	12.99
48.	320	Manufacture of structural clay products	2330.82	59.18	1192.08
49.	323	Manufacture of china ware and porcelainware	171.86	3.44	64.61
50.	324	Manufacture of cement	448.41	2.64	108.31
51.	329	Manufacture of non-metalic mineral products	454.00	36.77	158.59
52.	330	Iron and Steel industries	1914.19	26.91	395.42
53.	331	Casting and forging of iron and steel	994.53	15.44	135.79
54.	333	Copper manufacturing	3.33	0.13	0.55
55.	335	Aluminium manufacturing	2667.13	55.31	589.51
56.	340	Manufacture of metal cans from tin plate	777.16	23.14	58.91
57.	341	Manufacture of structural metal products	134.34	0.77	40.89
58.	342	Manufacture of metal furniture and fixtures	50.30	1.51	9.62
59.	343	Manufacture of hand tools and hardware	581.54	14.48	160.84
60.	345	Manufacture of metal utensils and cutlery	249.15	3.45	35.25
61.	349	Manufacture of metal products-others	20.39	0.90	5.18

<i>Sl No.</i>	<i>Industry code</i>	<i>Name of industry</i>	<i>Number of units</i>	<i>Total fixed capital</i>	<i>Working capital</i>	<i>Productive capital</i>	<i>Invested capital</i>	<i>Outstanding loan</i>	<i>All workers (No.)</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
62.	350	Manufacture of agricultural machinery and equipments	6	3.58	10.60	14.18	8.48	10.00	60
63.	353	Industrial machinery for food and textiles	3	9.26	5.79	15.05	15.20	9.25	104
64.	354	Industrial machinery for other than food	15	27.72	20.73	48.46	79.89	28.21	237
65.	355	Manufacture of refrigerators, airconditioners and fire fighting equipments and their parts, components and accessories.	3	0.93	0.45	1.37	1.61	1.07	20
66.	357	Manufacture of machine tools	10	526.48	552.41	1078.89	1457.97	491.54	1590
67.	358	Manufacture of computing, machinery and parts	4	2.71	(—) 0.57	2.14	3.93	1.29	55
68.	359	Manufacture of sewing machines	15	29.69	23.78	53.46	52.12	17.96	215
69.	360	Manufacture of transformers and electricals	17	845.06	1088.83	1933.90	1958.39	1828.29	2091
70.	361	Manufacture of insulated wires and cables	5	241.93	814.69	1056.61	1249.19	817.97	668
71.	362	Manufacture of dry and wet batteries	4	370.61	(—) 76.12	294.49	719.15	359.09	751
72.	364	Manufacture of radio and television	6	495.32	1341.33	1836.65	1742.95	960.56	869
73.	367	Manufacture of electric components and accessories	10	1075.57	513.73	1589.30	1473.41	1190.13	528
74.	369	Manufacture of electrical machinery	11	58.74	43.78	102.51	136.91	110.74	228
75.	370	Ship building and repairing	18	8790.48	6944.58	15735.06	14730.94	7115.59	1655

76.	376	Manufacture of bicycles and cycle rickshaws	9	11.15	49.72	60.86	79.11	98.50	287
77.	379	Manufacturer of Transport equipments and parts not elsewhere classified	4	85.29	64.11.	149.40	131.02	139.54	1717
78.	380	Manufacture of medical and surgical equipments	6	372.54	399.07	771.61	931.50	401.73	890
79.	381	Manufacture of photographic and optical goods	4	7.56	17.19	24.75	42.90	67.11	148
80.	382	Manufacture of watches and clocks	3	22.35	(—) 0.09	22.26	24.81	16.69	93
81.	387	Manufacture of pen and pencils	3	3.22	0.93	4.14	7.45	6.03	36
82.	389	Manufacture of jewellery articles	5	1.12	2.54	3.66	2.65	0.62	78
83.	400	Generation, transmission and distribution of electric energy	5	33818.58	5973.31	39791.89	40787.30	35747.70	19517
84.	420	Water supply and collection	5	254.43	4.90	259.34	259.32	..	218
85.	973	Repair of motor vehicles	99	228.27	159.32	378.59	334.55	43.51	4254
86.	979	Repair enterprises	12	93.13	35.24	68.37	62.74	2.55	1217
Total			2926	79601.65	47956.30	127557.96	136007.31	99291.41	232566

Sl. No.	Industry Code	Name of industry	All employees (No.)	Wages to workers	Total emoluments	Fuels consumed	Materials consumed	Total input	Products	Other output
(1)	(2)	(3)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
62.	350	Manufacture of agricultural machinery and equipments	78	2.93	4.89	1.44	26.62	30.27	35.25	3.38
63.	353	Industrial machinery for food and textiles	137	6.98	11.62	1.28	12.87	15.50	23.33	4.47
64.	354	Industrial machinery for other than food	303	9.78	19.23	7.65	108.93	144.22	161.17	24.06
65.	355	Manufacture of refrigerators, airconditioners and fire fighting equipments and their parts, components and accessories.	26	0.66	0.94	0.21	7.98	8.62	7.84	1.73
66.	357	Manufacture of machine tools	2862	149.76	338.88	47.94	387.96	502.79	777.50	137.44
67.	358	Manufacture of computing machinery and parts	67	2.93	4.01	0.27	3.43	7.16	6.83	7.11
68.	359	Manufacture of sewing machines	304	9.58	13.97	1.97	23.98	42.43	50.42	16.80
69.	360	Manufacture of transformers and electricals.	2882	221.62	381.90	39.83	2025.03	2318.00	2848.05	330.17
70.	361	Manufacture of insulated wires and cables	1159	78.96	189.45	29.35	2633.38	2758.07	3430.58	17.31
71.	362	Manufacture of dry and wet batteries	1141	69.27	133.75	88.65	855.88	1059.45	1563.37	23.57
72.	364	Manufacture of radio and television	1294	56.81	127.08	8.63	721.67	1151.72	963.64	836.87
73.	367	Manufacture of electric components and accessories	829	42.43	94.56	9.21	306.22	368.09	650.33	10.47
74.	369	Manufacture of electrical machinery	370	15.59	29.78	4.07	204.24	275.11	370.14	30.32
75.	370	Ship building and repairing	2661	176.39	366.61	61.06	1006.86	1397.63	99.14	2239.62



76.	376	Manufacture of bicycles and cycle rickshaws	330	16.80	21.42	3.10	134.54	156.54	191.32	(-) 1.37
77.	379	Manufacture of transport equipment and parts not elsewhere classified	1988	169.58	205.83	14.19	461.79	485.01	245.35	454.36
78.	380	Manufacture of medical and surgical equipments	1307	82.69	159.04	9.46	686.60	1006.41	1210.05	277.38
79.	381	Manufacture of photographic and optical goods	192	9.18	15.43	0.41	36.42	48.07	60.67	8.12
80.	382	Manufacture of watches and clocks	117	3.03	4.22	0.32	5.18	6.90	7.32	15.80
81.	387	Manufacture of pen and pencils	54	1.44	2.36	0.47	9.54	11.80	16.45	0.35
82.	389	Manufacture of jewellery articles	94	1.91	2.76	0.09	7.52	9.48	13.03	0.89
83.	400	Generation, transmission and distribution of electric energy	29070	1448.57	2890.64	60.57	171.93	2732.59	8935.13	1923.82
84.	420	Water supply and collection	259	22.39	29.05	35.72	110.48	152.48	68.02	219.1
85.	973	Repair of motor vehicles	4998	404.42	553.60	42.48	225.14	1260.82	..	1962.78
86.	979	Repair enterprises	1370	103.60	135.64	70.87	59.57	142.79	..	292.92
Total			281289	10417.61	16959.20	7827.04	139892.16	164765.56	191357.34	17803.86

<i>Sl. No.</i>	<i>Industry Code</i>	<i>Name of industry</i>	<i>Total output</i>	<i>Depreciation</i>	<i>Value added</i>
(1)	(2)	(3)	(19)	(20)	(21)
62.	350	Manufacture of agricultural machinery and equipments	38.63	0.37	7.99
63.	353	Industrial machinery for food and textiles	27.80	1.24	11.06
64.	354	Industrial machinery for other than food	185.22	2.69	38.31
65.	355	Manufacture of refrigerators, air conditioners and fire fighting equipments and parts, components and accessories.	9.57	0.06	0.89
66.	357	Manufacture of machine tools	914.94	56.29	355.86
67.	358	Manufacture of computing machinery and parts	13.94	0.31	6.47
68.	359	Manufacture sawing machines	67.22	3.16	21.63
69.	360	Manufacture of transformers and electricals	3178.22	84.61	775.60
70.	361	Manufacture of insulated wires and cables	3447.90	27.34	662.48
71.	362	Manufacture of dry and wet batteries	1586.94	29.22	498.27
72.	364	Manufacture of radio and television	1800.51	29.80	619.00
73.	367	Manufacture of electric components and accessories	660.80	53.13	239.59
74.	369	Manufacture of electrical machinery	400.45	4.98	120.37
75.	370	Ship building and repairing	2339.36	282.42	659.30
76.	376	Manufacture of bicycles and cycle rickshaws	189.95	1.29	32.12

77.	379	Manufacture of transport equipment and parts not elsewhere classified	699.71	9.39	205.92
78.	380	Manufacture of medical and surgical equipment	1407.43	26.61	454.42
79.	381	Manufacture of photographic and optical goods	68.79	0.85	19.86
80.	382	Manufacture of watches and clocks	23.12	2.10	14.12
81.	387	Manufacture of pen and pencils	16.80	0.34	4.66
82.	389	Manufacture of jewellery articles	13.92	0.09	4.35
83.	400	Generation, Transmission and Distribution of electric energy	10858.95	944.22	7182.13
84.	420	Water supply and collection	287.21	17.18	117.56
85.	973	Repair of motor vehicles	1962.78	21.60	680.37
86.	979	Repair enterprises-	292.92	3.49	146.64
Total			209161.20	5392.70	39002.94

## APPENDIX—VI

**Important Characteristics by Industry Groups, Factory Sector  
(3 Digit Level of NIC 1970)**

**Annual Survey of Industries 1981-82**

*(Rs. in lakhs)*

Sl. No.	Industry Code	Name of Industry	Number of units	Total fixed capital	Working capital	Productive capital	Invested capital	Outstanding loan	Workers (No.)	All Employees (No.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1.	201	Manufacture of dairy products	5	60.52	9.38	69.90	69.86	45.60	145	363
2.	202	Canning and preservation of fruits and vegetables	18	66.30	89.96	156.26	232.78	211.71	606	737
3.	203	Canning, preserving and processing of fish, crustacean and similar foods	64	426.43	59.60	486.03	735.03	835.01	1368	2276
4.	204	Grain mill products	51	62.96	60.34	123.30	147.03	95.51	814	897
5.	205	Manufacture of bakery products	7	52.41	48.33	100.74	75.55	7.27	179	258
6.	206	Manufacture and refining of sugar (vacuum pan sugar factories)	5	170.62	244.51	415.14	457.98	412.53	1120	1730
7.	211	Manufacture of other edible oils and fats eg. mustard oil, groundnut oil, til oil etc.	47	156.42	269.35	425.77	544.92	363.11	628	895
8.	212	Tea processing	89	619.30	909.55	1528.85	1381.80	190.04	4611	5150
9.	213	Coffee curing, roasting and grinding	6	22.22	50.10	72.32	45.99	16.80	677	816
10.	214	Cashewnut processing like drying, shelling, roasting, salting etc.	269	278.29	2151.17	2429.46	3459.93	3974.45	102336	112304
11.	215	Manufacture of ice	8	51.67	15.63	67.30	91.81	97.99	182	250

12.	217	Manufacture of starch	11	49.05	35.96	85.00	119.29	44.63	192	256
13.	219	Manufacture of food products not elsewhere classified	11	74.09	119.42	193.51	206.38	236.76	175	251
14.	220	Distilling, rectifying and blending of spirits	5	236.32	354.22	590.54	583.74	41.94	242	323
15.	222	Malt liquors and malt	6	133.08	53.43	186.51	194.02	102.47	241	304
16.	226	Manufacture of beedi	346	21.74	65.32	87.06	105.41	2.83	20811	21408
17.	227	Manufacture of cigars, cigarettes, cheroot and cigarettes, tobacco	3	0.65	4.02	4.67	5.93	Nil	.45	58
18.	231	Cotton spinning, weaving, shrinking, sanforzing, mercering and finishing of cotton textiles in mills	25	3174.49	1397.38	4571.86	5491.06	3687.71	10994	12137
19.	232	Printing, dyeing and bleaching of cotton textiles	6	13.97	16.01	29.97	42.38	34.86	145	192
20.	235	Weaving and finishing of cotton textiles in handlooms other than khadi	108	136.22	224.28	360.49	386.01	261.52	4274	4929
21.	236	Weaving and finishing of cotton textiles in powerlooms	19	150.17	0.75	150.92	184.07	182.78	464	623
22.	239	Cotton textiles not elsewhere classified	4	358.19	49.24	407.42	559.14	329.48	917	1078
23.	260	Knitting mills	6	25.20	32.17	57.36	48.20	48.65	300	393
24.	264	Manufacture of all types of textiles garments including wearing apparel	6	289.11	1130.34	1419.44	1399.39	97.76	2371	2758
25.	265	Manufacture of raincoats, hats etc.	6	2.20	77.77	79.96	70.98	41.87	110	164
26.	268	Manufacture of coir and coir products	73	327.05	739.58	1066.63	1067.85	721.24	1906	2694

Sl. No.	Industry code	Name of Industry	Wages to workers	Total emoluments	Fuels consumed	Materials consumed	Total input	Products	Other output	Total output	Depreciation	Value added
(1)	(2)	(3)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
1.	201	Manufacture of dairy products	11.18	31.87	13.76	230.98	267.09	296.93	12.51	309.44	5.23	37.12
2.	202	Canning and preservation of fruits and vegetables	18.69	28.96	8.00	723.68	753.99	774.54	42.45	816.99	6.08	56.93
3.	203	Canning preserving and processing of fish, crustacean and similar foods	71.93	127.31	83.30	3674.14	4156.34	4203.77	257.93	4461.70	57.95	247.40
4.	204	Grain mill products	24.57	40.13	18.02	962.49	1039.21	1071.65	57.04	1128.69	9.09	80.39
5.	205	Manufacture of bakery products	15.73	28.26	16.00	243.66	285.49	385.67	5.69	391.06	7.23	98.34
6.	206	Manufacture and refining of sugar (vacuum pan sugar factories)	68.06	132.04	27.71	403.15	509.08	777.48	16.71	794.19	12.08	273.02
7.	211	Manufacture of other edible oils and fats eg. mustard oil, groundnut oil, til oil etc.	29.42	52.88	37.01	4181.09	5043.38	4586.50	806.44	5392.93	16.01	333.54
8.	212	Tea processing	179.83	266.26	351.63	5761.14	6302.45	7468.52	9.09	7477.61	82.91	1092.25
9.	213	Coffee curing, roasting and grinding	23.72	34.70	3.58	115.19	132.80	122.35	61.12	183.48	2.13	48.55
10.	214	Cashewnut processing like drying, shelling, roasting, salting etc.	705.42	1092.59	57.94	7846.66	9013.42	9855.41	1036.38	10891.78	32.02	1846.34
11.	215	Manufacture of ice	10.60	20.92	5.87	224.57	265.57	308.42	11.11	319.53	3.68	50.28

12.	217	Manufacture of starch	6.88	11.15	19.57	76.66	110.01	124.26	2.22	126.48	4.27	12.20
13.	219	Manufacture of food products not elsewhere classified	11.82	21.90	16.52	625.27	662.39	734.26	13.62	747.89	10.32	75.17
14.	220	Distilling, rectifying and blending of spirits	30.42	58.07	45.51	560.61	872.89	843.74	234.82	1078.55	37.47	168.19
15.	222	Malt liquors and malt	19.69	32.45	32.45	112.28	172.99	345.32	27.10	372.41	12.71	186.71
16.	226	Manufacture of beedi	618.75	710.64	6.34	677.99	1101.33	1272.98	566.14	1839.12	2.17	735.62
17.	227	Manufacture of cigars, cigarettes, cheroot and cigarettes, tobacco	2.35	3.36	0.03	45.94	50.53	62.56	0.39	62.95	0.03	12.38
18.	231	Cotton spinning, weaving, shrinking, sanforzing, mercering and finishing of cotton textiles in mills	1283.12	1201.11	286.74	4017.19	4765.43	6479.70	334.23	6813.93	281.02	1767.47
19.	232	Printing dyeing and bleaching of cotton textiles	8.05	12.16	8.25	161.52	397.47	194.21	247.53	441.74	1.76	42.51
20.	235	Weaving and finishing of cotton textiles in handlooms other than khadi	168.88	243.71	19.63	775.06	1048.47	1160.30	213.20	1373.50	12.02	313.01
21.	236	Weaving and finishing of cotton textiles in powerlooms	18.14	28.45	8.61	108.12	144.63	147.45	13.39	160.84	9.95	6.25
22.	239	Cotton textiles not elsewhere classified	45.49	69.86	15.05	351.95	429.25	551.37	42.13	593.50	20.05	144.70
23.	260	Knitting mills	8.65	14.67	4.89	81.06	92.69	123.75	0.38	124.13	2.72	28.73
24.	264	Manufacture of all types of textiles garments including wearing apparel	288.30	387.11	111.01	1697.72	1877.63	2985.25	65.36	3050.61	20.44	1152.55
25.	265	Manufacture of raincoats, hats etc.	4.75	0.24	0.22	96.36	135.17	124.52	51.46	175.97	20.27	40.54
26.	268	Manufacture of coir and coir products	91.56	174.65	24.54	1701.08	2232.07	2109.37	524.65	2634.03	26.70	375.25

<i>Sl. Industry No. Code</i>		<i>Name of Industry</i>	<i>Number of units</i>	<i>Total fixed capital</i>	<i>Working capital</i>	<i>Productive capital</i>	<i>Invested capital</i>	<i>Outstand- ing loans</i>	<i>Workers (No.)</i>	<i>All employees (No.)</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
23.	270	Manufacture of veneer, plywood and their products	62	323.69	539.85	863.54	944.06	825.80	3054	3792
24.	271	Sawing and planing of wood (other than plywood)	557	401.82	337.26	739.08	810.05	461.98	8563	9947
25.	272	Manufacture of wooden and cane boxes crates, drums, barrels and other wooden containers	10	8.61	1.87	10.48	10.60	2.99	86	108
26.	273	Manufacture of structural wooden goods (including treated timber) such as beams, posts, doors and windows	8	18.46	28.06	46.52	43.33	31.60	92	116
27.	274	Manufacture of wooden industrial goods	6	6.16	1.95	8.11	12.48	12.35	92	104
28.	276	Manufacture of wooden furniture and fixtures	21	48.67	133.40	182.07	130.84	38.76	659	789
29.	279	Manufacture of wood, bamboo and cane products not elsewhere classified	4	21.26	20.82	42.08	48.01	37.65	172	190
30.	280	Manufacture of pulp, paper and paper board including newsprint	13	5028.30	1546.40	6574.70	8067.45	15379.61	3694	4863
31.	281	Manufacture of container and boxes of paper and paper board	16	45.76	48.07	93.83	112.82	83.09	198	312
32.	284	Printing and publishing of newspapers	17	413.60	459.00	872.60	823.18	790.17	1196	2134
33.	285	Printing and publishing of periodicals books and journals	70	390.17	297.15	687.32	533.95	291.12	2838	3514
34.	288	Book Binding	4	0.93	9.83	10.76	12.57	10.94	44	56



35.	289	Printing, publishing and allied activities not elsewhere classified etc.	31	225.93	226.05	451.98	368.38	118.33	967	1163
36.	291	Manufacture of footwear (excluding repair) except vulcanised rubber	6	240.57	29.57	270.14	300.00	327.88	112	200
37.	300	Tyre and tube industries	18	2370.19	66.31	2436.50	3381.59	4291.56	1469	2116
38.	302	Manufacture of rubber products not elsewhere classified	131	814.96	695.90	1510.86	1746.48	1294.90	4445	5585
39.	303	Manufacture of plastic products not elsewhere classified	12	50.31	42.65	92.96	84.25	188.86	112	188
40.	304 & 305	Manufacture of products of petroleum not elsewhere classified	3	3913.44	854.88	4768.32	10208.55	6570.14	364	525
41.	310	Manufacture of basic and industrial organic and inorganic chemicals & gases	34	3254.54	2250.83	5505.37	5302.63	3334.10	3674	5107
42.	311	Manufacture of fertilizers and pesticides	22	8284.03	4254.51	12538.54	14510.53	7873.82	4336	6263
43.	312	Manufacture of paints, varnishes and lacquers	5	45.86	(-)-2.10	43.76	56.62	55.81	84	114
44.	313	Manufacture of drugs and medicines	47	446.98	509.15	956.13	962.69	607.71	1488	2250
45.	314	Manufacture of perfumes, cosmetics, lotions and other toilet preparations	18	635.40	928.24	1563.64	2117.55	1555.09	1544	1978
46.	315	Manufacture of inedible oils	7	225.42	104.39	329.81	307.77	178.59	525	762
47.	316	Manufacture of turpentine, synthetic resins plastic materials and synthetic fibres like nylon, torylen except glass.	10	1574.42	338.27	1912.70	2264.68	879.41	2168	2908
48.	317	Manufacture of matches	16	5.02	8.24	13.26	10.60	3.47	284	334

<i>Sl. Industry No.</i>	<i>Industry code</i>	<i>Name of Industry</i>	<i>Wages to Workers</i>	<i>Total emoluments</i>	<i>Fuels consumed</i>	<i>Materials consumed</i>	<i>Total input</i>	<i>Products</i>	<i>Other output</i>	<i>Total output</i>	<i>Depreciation</i>	<i>Value added</i>
(1)	(2)	(3)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
23.	270	Manufacture of veneer, plywood and their products	175.87	293.77	104.77	1045.38	1288.29	1905.46	47.84	1953.30	30.71	634.30
24.	271	Sawing and planing of wood (other than plywood)	198.85	256.44	73.28	1493.59	1852.08	2128.19	246.35	2374.54	41.25	481.20
25.	272	Manufacture of wooden and cane boxes crates, drums, barrels and other wooden containers	2.51	3.21	0.71	60.29	71.86	72.49	7.00	79.49	0.68	6.95
26.	273	Manufacture of structural wooden goods (including treated timber) such as beams, posts, doors and windows	3.67	5.74	0.75	58.65	67.19	81.36	(---)1.16	80.20	1.50	11.51
27.	274	Manufacture of wooden industrial goods	2.57	3.45	0.71	26.11	33.65	40.11	2.80	42.91	0.71	8.56
28.	276	Manufacture of wooden furniture and fixtures	57.25	81.61	3.97	146.50	167.70	271.23	11.91	283.14	6.77	108.66
29.	279	Manufacture of wood, bamboo and cane products not elsewhere classified	10.64	12.59	0.98	17.80	21.90	37.46	6.06	43.52	1.57	20.05
30.	280	Manufacture of pulp, paper and paper board including newsprint	489.04	842.94	1005.71	2380.23	3984.06	4811.73	169.60	4981.33	277.79	819.48
31.	281	Manufacture of container and boxes of paper and paper board	8.52	16.73	4.29	176.24	198.12	244.74	10.33	255.07	4.88	52.06
32.	284	Printing and Publishing of news papers	130.58	313.81	15.90	1715.83	1956.27	2352.50	132.43	2484.93	48.63	480.03
33.	285	Printing and publishing of periodicals, books and journals	215.86	306.43	9.90	348.92	435.65	521.91	321.60	843.51	36.93	370.93

34.	288	Book binding	0.92	1.33	0.04	11.15	28.20	18.10	16.73	34.83	0.16	6.48
35.	289	Printing, publishing and allied activities not elsewhere classified etc.	60.77	85.05	5.53	244.08	340.83	351.90	135.25	487.15	17.91	128.41
36.	291	Manufacture of footwear (excluding repair) except vulcanised rubber	5.36	11.26	1.79	37.25	47.63	53.90	(-)11.67	42.23	10.42	(-)15.72
37.	300	Tyre and Tube industries	190.38	297.94	209.81	3412.62	3948.42	4272.21	272.61	4544.82	319.12	277.28
38.	302	Manufacture of rubber products not elsewhere classified	273.10	414.14	229.64	6031.75	6850.49	7843.63	689.03	8532.66	138.86	1543.30
39.	303	Manufacture of plastic products not elsewhere classified	6.37	13.70	1.47	73.77	86.91	114.29	1.23	115.52	6.48	22.14
40.	304 & 305	Manufacture of products of petroleum not elsewhere classified	44.41	112.04	77.25	74623.21	74947.12	76868.03	1437.41	78305.44	174.16	3191.16
41.	310	Manufacture of basic and industrial organic and inorganic chemicals & gases	543.58	972.99	1095.62	2960.59	4807.98	7681.80	128.04	7809.84	350.12	2651.73
42.	311	Manufacture of fertilizers and pesticides	683.52	1139.71	1802.30	11225.42	14514.79	20129.19	59.05	20188.23	1180.87	4492.58
43.	312	Manufacture of paints varnishes and lacquers	4.63	8.14	3.87	26.78	37.73	50.59	0.87	51.45	4.39	9.33
44.	313	Manufacture of drugs and medicines	104.01	207.10	88.12	1018.28	1197.00	1700.59	17.07	1717.66	45.99	474.67
45.	314	Manufacture of perfumes, cosmetics, lotions and other toilet preparations	186.14	290.28	292.42	5003.43	5557.29	6385.54	71.49	6457.03	62.03	837.71
46.	315	Manufacture of inedible oils	19.60	34.16	18.00	585.40	624.14	659.25	4.51	663.76	15.84	23.68
47.	316	Manufacture of turpentine, synthetic resins plastic materials and synthetic fibres like nylon, terylene except glass	307.93	499.57	515.46	1508.38	2219.77	2531.33	38.56	2569.89	187.52	162.70
48.	317	Manufacture of matches	4.47	6.39	0.75	30.31	36.07	46.36	0.33	46.69	0.44	10.18

Sl. No.	Industry code	Name of industry	Number of units	Total fixed capital	Working capital	Pro-ductive capital	Invested Capital	Out-standing loans	Workers (No.)	All employ-ees (No.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
49.	319	Manufacture of chemical products not elsewhere classified	3	211.01	133.81	344.82	277.55	166.67	57	103
50.	320	Manufacture of structural clay products	277	658.68	452.85	1,111.53	1,151.08	517.45	1,1503	12866
51.	321, 323	Manufacture of chinaware and porcelain ware	14	220.70	180.63	401.33	367.42	640.42	1183	1476
52.	324	Manufacture of cement, lime and plaster	5	31.96	110.04	142.00	105.56	4.76	259	320
53.	326, 329	Manufacture of miscellaneous non-metallic mineral products	11	264.12	253.78	517.90	458.02	54.69	596	779
54.	330	Iron and steel industries	12	353.35	462.98	816.33	699.22	617.04	728	986
55.	331	Foundries for casting and forging iron and steel	25	215.12	170.01	385.13	479.40	241.97	345	702
56.	333, 339, 335	Aluminium manufacturing	9	368.19	819.34	1,187.53	1,266.18	62.97	850	1,108
57.	340	Manufacture of fabricated metal products such as metal cans, barrels, drums, and other fabricated metal products not elsewhere classified	53	482.47	702.31	1,184.78	1,143.97	317.13	902	1,307
58.	341	Manufacture of structural metal products	31	106.73	116.93	223.66	243.14	76.84	519	702
59.	342	Manufacture of furniture and fixtures, primarily of metal	3	3.09	8.85	11.94	10.28	11.09	148	164

60.	343	Manufacture of hand tools and general hardware	31	272.57	103.16	375.73	537.89	625.49	1221	1524
61.	345	Manufacture of metal utensils, cutlery and kitchenware	16	23.78	22.59	46.37	84.55	41.99	248	297
62.	349	Manufacture of metal products—others	6	6.64	4.89	11.53	15.51	9.10	76	100
63.	351, 350	Manufacture of agricultural machinery and equipment and parts	12	26.06	5.72	31.78	52.90	21.72	176	232
64.	353	Industrial machinery for food and textile industries	11	13.04	23.14	36.18	38.62	154	17.59	188
65.	354	Industrial machinery for other than food and textile industries	13	29.09	29.11	58.20	61.02	45.06	236	321
66.	356	Manufacture, alteration and repair of general items of non-electrical machinery components etc. not elsewhere classified	4	44.23	6.38	20.61	23.03	40.78	28	44
67.	357	Manufacture of machine tools, their parts and accessories	10	663.97	685.57	1349.54	1753.38	1533.57	2407	3867
68.	358	Manufacture of office computing and accounting machinery and accessories	4	3.51	1.51	5.02	7.47	1.78	55	68
69.	359	Manufacture and repairing of non-electrical machinery equipment, component and accessories not elsewhere classified	21	23.01	28.93	51.94	50.64	55.15	334	392
70.	360	Manufacture of electrical industrial machinery and apparatus and parts (such as electrical motors, generators etc.)	22	1049.03	1104.84	2153.87	2166.87	2134.15	2462	3400
71.	361	Manufacture of insulated wires and cables	9	365.78	962.04	1327.82	1393.14	999.67	779	1155

Sl. No.	Industry code	Name of industry	Wages to workers	Total emoluments	Fuels consumed	Materials consumed	Total Input	Products	Other output	Total output	Depreciation	Value added
(1)	(2)	(3)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
49.	319	Manufacture of chemical products not elsewhere classified	4.41	12.09	25.49	189.83	229.94	307.71	7.27	314.98	23.26	61.79
50.	320	Manufacture of structural clay products	683.26	905.24	591.32	323.04	1111.87	2428.15	67.51	2495.66	73.42	1310.37
51.	321, 323	Manufacture of chinaware and porcelain ware	88.63	135.71	162.57	108.98	317.07	520.56	4.58	525.24	19.63	188.54
52.	324	Manufacture of cement, lime and plaster	49.36	70.42	264.70	148.43	452.68	634.97	20.25	655.22	3.29	199.25
53.	326, 329	Manufacture of miscellaneous nonmetallic mineral products	54.56	81.57	42.66	244.66	331.79	569.59	2.27	571.86	38.63	201.44
54.	330	Iron and steel industries	90.66	163.22	157.46	1128.72	1577.52	1611.47	219.95	1831.42	25.26	228.64
55.	331	Foundries for casting and forging iron and steel	45.08	90.70	59.52	716.57	819.70	956.02	117.18	1073.20	11.09	242.41
56.	333, 335, 339	Aluminium manufacturing	155.59	255.46	475.95	1414.87	2003.94	2782.45	21.12	2803.57	34.09	765.54
57.	340	Manufacture of fabricated metal products such as metal cans, barrels, drums, and other fabricated metal products not elsewhere classified	62.99	121.99	24.98	1165.08	1611.50	1468.60	443.13	1911.53	54.10	245.94
58.	341	Manufacture of structural metal products	28.26	50.42	6.25	258.93	297.39	370.95	48.97	419.92	7.65	114.88
59.	342	Manufacture of furniture and fixtures, primarily of metal	2.60	3.66	0.21	12.02	14.12	18.11	2.25	20.36	0.33	5.92

60.	343	Manufacture of hand tools and general hardware	66.00	109.60	82.13	577.74	723.38	921.18	49.84	971.02	22.86	224.77
61.	345	Manufacture of metal utensils, cutlery and kitchenware	14.06	49.18	6.68	90.99	106.93	149.47	4.30	153.77	2.46	44.38
62.	349	Manufacture of metal products--others	2.19	3.47	4.94	19.61	27.53	47.40	0.80	48.20	0.79	19.87
63.	351, 350	Manufacture of agricultural machinery and equipment and parts	9.41	15.88	3.32	24.19	34.72	43.72	16.91	60.63	2.43	23.47
64.	353	Industrial machinery for food and textile industries	8.67	11.17	2.65	46.71	55.72	65.60	3.75	69.35	1.31	12.32
65.	354	Industrial machinery for other than food and textile industries	11.84	23.17	4.98	60.15	79.30	103.55	12.78	116.33	2.19	34.84
66.	356	Manufacture, alteration and repair of general items of non-electrical machinery components etc. not elsewhere classified	1.71	2.99	0.43	5.52	9.01	15.63	(—)0.16	15.47	0.97	5.50
67.	357	Manufacture of machine tools, their parts and accessories	229.64	481.96	71.90	723.53	894.39	1728.75	80.29	1809.04	60.55	854.10
68.	358	Manufacture of office computing and accounts machinery and accessories	3.47	4.69	0.41	3.18	9.63	3.88	13.49	17.37	0.47	7.28
69.	359	Manufacture and repairing of non-electrical machinery equipment, component and accessories not elsewhere classified	14.25	19.92	3.11	36.77	55.97	73.12	30.44	103.56	2.84	44.74
70.	360	Manufacture of electrical industrial machinery and apparatus and parts (such as electrical motors, generators etc.)	281.14	496.37	46.54	2419.78	2753.20	3575.83	211.21	3787.04	75.97	957.87
71.	361	Manufacture of insulated wires and cables	99.53	232.03	35.86	3125.50	3311.71	4004.11	28.70	4032.81	28.82	692.28

<i>Sl. No.</i>	<i>Industry code</i>	<i>Name of industry</i>	<i>Wages to workers</i>	<i>Total emolu-ments</i>	<i>Fuels consumed</i>	<i>Materials consumed</i>	<i>Total Input</i>	<i>Products</i>	<i>Other output</i>	<i>Total output</i>	<i>Depre- ciation</i>	<i>Value added</i>
(1)	(2)	(3)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
49.	319	Manufacture of chemical products not elsewhere classified	4.41	12.09	25.49	189.83	229.94	307.71	7.27	314.98	23.26	61.79
50.	320	Manufacture of structural clay products	683.26	905.24	591.92	323.04	1111.87	2428.15	67.51	2495.66	73.42	1310.37
51.	321, 323	Manufacture of chinaware and porcelain ware	88.63	135.71	162.57	108.98	317.07	520.56	4.58	525.24	19.63	188.54
52.	324	Manufacture of cement, lime and plaster	49.36	70.42	264.70	148.43	452.68	634.97	20.25	655.22	3.29	199.25
53.	326 329	Manufacture of miscellaneous nonmetallic mineral products	54.56	81.57	42.66	244.66	331.79	569.59	2.27	571.86	36.63	201.44
54.	330	Iron and steel industries	90.66	163.22	157.46	1128.72	1577.52	1611.47	219.95	1831.42	25.26	228.64
55.	331	Foundries for casting and forging iron and steel	45.08	90.70	59.52	716.57	819.70	956.02	117.18	1073.20	11.09	242.41
56.	333, 335, 339	Aluminium manufacturing	155.59	255.46	475.95	1414.87	2003.94	2782.45	21.12	2803.57	34.09	765.54
57.	340	Manufacture of fabricated metal products such as metal cans, barrels, drums, and other fabricated metal products not elsewhere classified	62.99	121.99	24.98	1165.08	1611.50	1468.60	443.13	1911.53	54.10	245.94
58.	341	Manufacture of structural metal products	28.26	50.42	6.25	258.93	297.39	370.95	48.97	419.92	7.65	114.88
59.	342	Manufacture of furniture and fixtures, primarily of metal	2.60	3.66	0.21	12.02	14.12	18.11	2.25	20.36	0.33	5.92



60.	343	Manufacture of hand tools and general hardware	66.00	109.60	82.13	577.74	723.38	921.18	49.84	971.02	22.86	224.77
61.	345	Manufacture of metal utensils, cutlery and kitchenware	14.06	19.18	6.68	90.99	106.93	149.47	4.30	153.77	2.46	44.38
62.	349	Manufacture of metal products—others	2.19	3.47	4.94	19.61	27.53	47.40	0.80	48.20	0.79	19.87
63.	351, 350	Manufacture of agricultural machinery and equipment and parts	9.41	15.88	3.32	24.19	34.72	43.72	16.91	60.63	2.43	23.47
64.	353	Industrial machinery for food and textile industries	8.67	11.17	2.65	46.71	55.72	65.60	3.75	69.35	1.31	12.32
65.	354	Industrial machinery for other than food and textile industries	11.84	23.17	4.98	60.15	79.30	103.55	12.78	116.33	2.19	34.84
66.	356	Manufacture, alteration and repair of general items of non-electrical machinery components etc. not elsewhere classified	1.71	2.99	0.43	5.52	9.01	15.63	(—)0.16	15.47	0.97	5.50
67.	357	Manufacture of machine tools, their parts and accessories	229.64	481.96	71.90	723.53	894.39	1728.75	80.29	1809.04	60.55	854.10
68.	358	Manufacture of office computing and accounts machinery and accessories	3.47	4.69	0.41	3.18	9.63	3.88	13.49	17.37	0.47	7.28
69.	359	Manufacture and repairing of non-electrical machinery equipment, component and accessories not elsewhere classified	14.25	19.92	3.11	36.77	55.97	73.12	30.44	103.56	2.84	44.74
70.	360	Manufacture of electrical industrial machinery and apparatus and parts (such as electrical motors, generators etc.)	281.14	496.37	46.54	2419.78	2753.20	3575.83	211.21	3787.04	75.97	957.87
71.	361	Manufacture of insulated wires and cables	99.53	232.03	35.86	3125.50	3311.71	4004.11	28.70	4032.81	28.82	692.28

<i>Sl. Industry No.</i>	<i>Industry code</i>	<i>Name of Industry</i>	<i>Number of units</i>	<i>Total fixed capital</i>	<i>Working capital</i>	<i>Productive capital</i>	<i>Invested capital</i>	<i>Out-standing loans</i>	<i>Workers (No.)</i>	<i>Employees (No.)</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
72.	362. 363	Manufacture of electrical apparatus, appliances and other parts such as lamps, bulbs etc., excluding repairing	10	409.03	100.52	509.55	768.02	588.53	1004	1354
73.	364	Manufacture of radio and television transmitting and receiving sets including transistor radio sets, tape recorders etc.	4	87.44	393.89	481.33	488.65	90.47	141	238
74.	366	Manufacture of electronic computer, control instruments and other equipments	7	131.93	25.62	157.56	256.70	181.44	285	424
75.	367	Manufacture of electronic components and accessories not elsewhere classified	12	1141.10	633.48	1774.58	1672.25	1943.42	898	1415
76.	369	Manufacture of electrical machinery, apparatus appliances and supplies and parts not elsewhere classified	8	45.20	16.24	61.44	130.35	159.01	203	295
77.	370	Ship building and repairing	20	9281.17	2006.62	11287.78	14051.31	7304.33	1529	2601
78.	374 to 379, 376	Manufacture of bicycles and cycle rickshaws and parts	13	141.92	224.88	366.80	363.80	438.01	2136	2536
79.	380	Manufacture of medical, surgical and scientific equipments	10	402.06	166.24	568.30	995.07	905.26	946	1439
80.	381	Manufacture of photographic and optical goods (excluding photo chemicals, sensitised paper and film)	4	3.49	6.57	10.06	7.02	8.91	24	34

81.	382	Manufacture of watches and clock	3	17.38	10.57	27.94	19.20	9.76	100	128
82.	387	Manufacture of stationery articles, like fountain pens, pencils, tags etc. (not elsewhere classified)	5	2.81	6.49	9.30	8.19	5.50	46	73
83.	389	Manufacture of miscellaneous products not elsewhere classified such as costume jewellery, feathers, lamps etc.	7	3.97	2.69	6.66	5.74	1.25	72	88
84.	400	Generation and transmission of electric energy and distribution of electric energy to household industrial, commercial and other users	7	37373.11	5821.98	43195.09	45625.13	41171.67	14671	24114
85.	420	Water supply ie., collection, purification and distribution of water	7	720.18	5.72	725.90	725.88	339.31	320	371
86.	910, 972	Electrical repair shops	4	13.11	1.93	15.04	15.13	..	74	88
87.	973	Repair of motor vehicles and motor cycle	100	250.99	166.18	417.17	377.14	31.92	4442	5169
88.	979	Repair enterprises not elsewhere classified	4	26.02	19.37	45.39	45.34	..	1123	1559
			3178	91210.22	37936.76	129146.90	148819.95	118149.87	251510	302389

Sl. No.	Industry code	Name of industry	Wages to workers	Total emoluments	Fuels consumed	Materials consumed	Total input	Products	Other output	Total output	Depreciation	Value added
(1)	(2)	(3)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
72.	362, 363	Manufacture of electrical apparatus, appliances and other parts such as lamps, bulbs etc. excluding repairing	109.27	184.21	118.40	908.87	1158.88	1576.17	32.50	1608.67	32.52	417.27
73.	364	Manufacture of radio and television transmitting and receiving sets including transistor, radio sets, tape recorders etc.	15.42	29.22	1.06	146.43	159.65	249.82	(—)8.05	241.77	4.25	77.88
74.	366	Manufacture of electronic computer, control instruments and other equipments	20.89	42.42	1.97	275.27	341.62	415.70	55.88	471.58	11.86	118.10
75.	367	Manufacture of electronic components and accessories not elsewhere classified	65.72	132.01	13.69	378.44	634.17	757.71	39.97	797.68	105.66	57.85
76.	369	Manufacture of electrical machinery, apparatus appliances and supplies and parts not elsewhere classified	15.83	27.33	2.23	117.95	149.52	179.19	27.65	206.84	3.02	54.30
77.	370	Ship building and repairing	201.72	447.15	51.26	1351.97	1979.84	2502.03	1193.18	3695.21	301.34	1413.8
78.	374 to 378, 376	Manufacture of bicycles and cycle rickshaws and parts	207.45	271.90	32.27	693.02	755.60	660.48	405.29	1065.77	11.55	298.63
79.	380	Manufacture of medical, surgical and scientific equipments	104.25	202.50	12.16	827.33	1072.89	1528.53	225.91	1754.44	39.24	642.31
80.	381	Manufacture of photographic and optical goods (excluding photo chemicals, sensitised paper and film)	1.78	2.22	0.63	6.01	7.54	11.57	2.01	13.57	0.44	5.59

81	382	Manufacture of watches and clock	4.67	7.18	0.47	8.84	10.89	12.00	22.07	34.07	1.99	21.19
82.	387	Manufacture of stationery articles, like fountain pens, pencils, tags etc. (not elsewhere classified)	1.43	2.28	0.40	12.79	15.53	21.09	(-).10	20.99	0.25	5.21
83.	389	Manufacture of miscellaneous products not elsewhere classified such as costume jewellery, feathers, lamps, etc.	1.95	2.86	0.16	8.23	9.74	14.01	0.23	14.25	0.24	4.26
84.	400	Generation and transmission of electric energy and distribution of electric energy to household industrial, commercial and other users	1735.79	3098.77	131.77	312.56	3428.97	12200.13	17.80	12307.94	1058.33	7820.63
85.	420	Water Supply i.e., collection, purification and distribution of water	31.52	39.49	56.88	96.54	173.42	440.27	..	440.27	60.48	206.47
86	910, 972	Electrical repair shops	4.91	6.55	1.86	3.91	8.03	..	15.38	15.38	1.29	6.06
87.	973	Repair of motor vehicles and motor cycle	477.02	610.47	62.69	309.93	1336.29	4.53	2093.53	2093.06	20.49	741.29
88.	979	Repair enterprises not elsewhere classified	104.95	133.99	10.92	23.23	55.27	1.35	199.14	200.50	2.70	142.50
			12608.52	19615.41	9357.50	168043.64	195202.61	231349.47	14197.58	245546.73	5790.10	44533.00



13.	260	Knitting mills	4	256.64	1160.47	1386.22	1417.11	102.38	2229
14.	234	Manufacture of all types of textiles garments including wearing apparel	3	5.68	1.81	6.33	7.49	8.73	89
15.	268	Manufacture of coir and coir products	15	113.27	129.31	248.83	242.58	160.12	896
16.	270	Manufacture of veneer, plywood and their products	16	263.59	443.11	746.24	706.70	599.89	2166
17.	271	Sawing and planing of wood (other than plywood)	19	10.20	9.19	15.93	19.40	15.73	891
18.	276	Manufacture of wooden furniture and fixtures	4	40.28	59.80	84.85	100.08	25.05	399
19.	280	Manufacture of paper and paper board	4	5012.62	1550.10	8029.34	6562.72	15371.04	3522
20.	284	Printing and publishing of newspapers	13	389.02	453.04	797.81	842.07	770.85	1044
21.	285	Printing and publishing of books and journals	10	289.43	232.46	390.48	521.89	235.45	1840
22.	289	Printing of picture and post cards	5	117.33	208.33	239.35	326.66	44.83	511
23.	300	Tyre and tube industries	4	2319.87	37.13	3316.30	2357.00	4201.86	1259
24.	302	Manufacture of rubber products—others	21	4194.97	1345.48	11104.86	5540.44	7321.67	2551
25.	310	Manufacture of organic and inorganic chemicals	10	2403.08	2195.95	4376.39	4599.02	2574.46	3368
26.	311*	Manufacture of fertilizers and pesticides	5	8272.37	4031.34	14241.14	12303.71	7742.21	4078
27.	313	Manufacture of drugs and medicines	7	274.94	328.83	601.23	603.77	256.07	904
28.	314	Manufacture of perfumes and lotions	8	609.55	914.83	2077.48	1524.37	1534.96	1484
29.	316*	Manufacture of turpentine	6	1764.87	533.54	2542.99	2298.42	982.83	2314
30.	320	Manufacture of structural clay products	55	292.25	217.39	528.22	509.64	258.75	6171

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
31.	323*	Manufacture of chinaware and porcelainware	5	167.45	162.38	295.58	329.82	589.26	962
32.	329*	Manufacture of non-metallic mineral products	4	273.64	360.53	524.99	634.17	36.59	735
33.	330	Iron and steel industries	4	314.65	449.55	639.94	764.20	542.78	560
34.	331*	Casting and forging of iron and steel	6	499.22	946.77	1584.58	1445.99	197.71	956
35.	340	Manufacture of metal cans from tin plate	5	234.17	387.46	605.24	621.63	177.37	298
36.	341*	Manufacture of structural metal products	4	64.67	86.76	147.48	151.43	2.06	297
37.	343*	Manufacture of hand tools and hardware	9	241.27	58.99	479.00	300.26	575.72	791
38.	353*	Industrial machinery for food and textile industries	3	15.29	8.68	28.66	23.97	21.98	82
39.	357*	Manufacture of machine tools, their parts and accessories	3	641.33	676.83	1719.89	1318.16	1496.73	2395
40.	360	Manufacture of transformers and electricals	8	1027.98	1067.91	2078.81	2095.90	2109.76	2126
41.	361	Manufacture of insulated wires and cables	3	285.43	840.72	1148.52	1126.15	868.62	717
42.	364*	Manufacture of radio and television	3	328.69	52.74	549.70	381.43	413.73	861
43.	366	Manufacture of electronic components	3	112.69	21.27	232.58	133.97	171.16	285
44.	369*	Manufacture of electrical machinery	4	637.00	427.35	1032.83	1064.35	1526.05	585
45.	370	Ship building and repairing	5	9251.46	1993.70	13929.55	11245.15	7258.00	1361
46.	376*	Manufacture of bicycles and cycle-rickshaws and parts	5	138.67	206.53	352.38	345.20	429.37	2022



47.	380*	Manufacture of medical and surgical equipments	6	413.58	170.30	1006.18	586.30	891.02	74
48.	400*	Generation and transmission of electric energy and distribution of electric energy to household, industrial, commercial and other users	8	37503.05	5824.59	45757.68	43327.64	41171.67	14779
49.	973	Repair of motor vehicles and motor cycles	32	164.26	104.28	243.42	268.53	5.94	3480
50.	979	Repair enterprises not elsewhere classified	3	26.02	19.37	45.34	45.39	..	1123
Total			720	84300.26	32860.29	136066.58	117160.55	109697.63	197646

\* Covers figures of same industry, industries having less than 3 units in each selected for integration with this industry.

<i>Sl. No.</i>	<i>Industry code</i>	<i>Name of industry</i>	<i>No. of employees</i>	<i>Wages to workers</i>	<i>Total emoluments</i>	<i>Fuels consumed</i>	<i>Material consumed</i>	<i>Total input</i>
(1)	(2)	(3)	(11)	(12)	(13)	(14)	(15)	(16)
1.	202	Canning and preservation of fruits and vegetables	530	12.13	19.13	7.44	197.48	217.68
2.	203	Canning, preserving and processing of fish	950	30.47	55.81	36.00	2325.76	2658.98
3.	204	Grain mill products	279	12.45	19.16	11.74	506.85	539.47
4.	206	Manufacture and refining of sugar	1816	78.29	151.46	40.57	569.49	706.26
5.	212	Tea processing	3972	145.09	212.10	286.06	5149.36	5607.05
6.	213	Coffee curing, roasting and grinding	764	22.74	32.37	1.45	4.71	14.73
7.	214	Cashewnut processing like drying, shelling, roasting, salting, etc.	109843	705.60	1090.01	81.16	7644.32	8716.49
8.	222	Malt liquors and malt	505	45.46	81.34	64.84	643.01	979.76
9.	226	Manufacture of beedi	5244	130.01	152.09	9.48	438.29	576.78
10.	231	Cotton spinning, and weaving in mills	12021	1285.05	1205.81	294.42	4157.23	5140.13
11.	235	Weaving and finishing of textiles, handlooms etc.	2545	85.01	122.19	8.01	251.37	311.93
12.	236	Weaving and finishing—powerlooms	1403	53.93	84.83	18.63	431.62	534.64
13.	260	Knitting mills	2669	284.98	384.87	115.39	1762.08	1950.41
14.	264	Manufacture of all types of textiles garments including wearing apparel	99	1.29	2.09	00.09	10.52	11.46
15.	268	Manufacture of coir and coir products	1176	43.15	78.78	10.04	601.31	681.48

16.	270	Manufacture of veneer, plywood and their products	2724	145.31	241.42	87.82	780.68	967.09
17.	271	Sawing and planing of wood (other than plywood)	971	16.59	21.95	1.81	88.34	98.24
18.	276	Manufacture of wooden furniture and fixtures	471	40.44	56.17	3.16	96.02	106.32
19.	280	Manufacture of paper and paper board	4653	484.29	834.79	1003.97	2309.60	3807.71
20.	284	Printing and publishing of newspapers	1946	115.46	293.10	15.27	1685.87	1921.25
21.	285	Printing and publishing of books and journals	2314	160.78	232.38	5.96	257.29	296.15
22.	289	Printing of picture and post cards	623	37.17	52.14	2.57	153.24	208.29
23.	300	Tyre and tube industries	1814	181.02	278.17	199.99	3334.84	3848.49
24.	302	Manufacture of rubber products—others	3189	206.21	358.39	233.98	78730.38	79347.82
25.	310	Manufacture of organic and inorganic chemicals	4559	526.04	928.89	1019.40	2778.31	4476.22
26.	311*	Manufacture of fertilisers and pesticides	5861	666.01	1100.69	1800.97	10199.87	13409.85
27.	313	Manufacture of drugs and medicines	1918	78.60	150.59	71.31	790.60	911.60
28.	314	Manufacture of perfumes and lotions	1886	184.70	287.86	290.76	4984.68	5517.11
29.	316*	Manufacture of turpentine	3093	319.54	522.49	543.47	2113.08	2869.48
30.	320	Manufacture of structural clay products	6848	410.67	570.83	272.80	158.78	542.69
31.	323*	Manufacture of chinaware and porcelainware	1180	75.09	114.40	149.35	99.36	290.22
32.	329*	Manufacture of non-metallic mineral products	947	98.98	144.66	306.56	368.02	745.57
33.	330	Iron and steel industries	764	79.64	146.83	133.58	1053.65	1460.05
34.	331*	Casting and forging of iron and steel	1340	181.09	313.53	512.82	1839.64	2484.06
35.	340	Manufacture of metal cans and tin plate	478	25.69	58.75	16.05	207.68	368.50
36.	341*	Manufacture of structural metal products	394	14.60	30.41	1.63	82.54	91.64

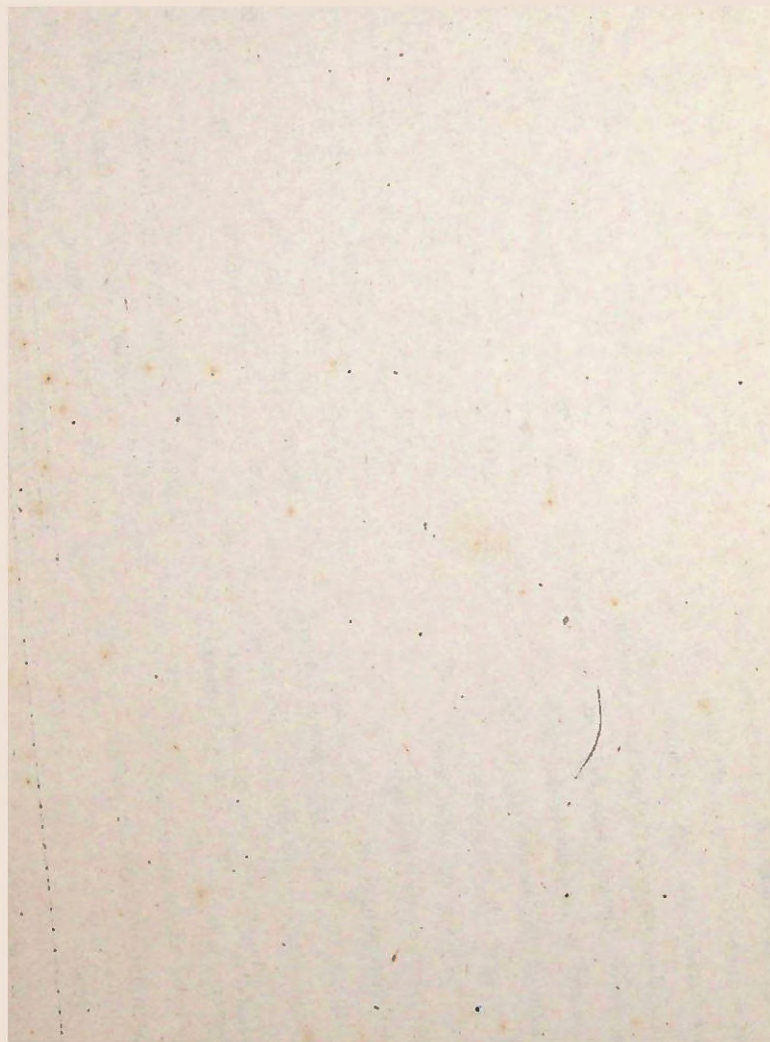
<i>Sl. No.</i>	<i>Industry code</i>	<i>Name of Industry</i>	<i>No. of employees</i>	<i>Wages to workers</i>	<i>Total emoluments</i>	<i>Fuels consumed</i>	<i>Materials consumed</i>	<i>Total input</i>
(1)	(2)	(3)	(11)	(12)	(13)	(14)	(15)	(16)
37.	343*	Manufacture of hand tools and hardware	1037	55.34	94.41	69.96	493.40	612.54
38.	353*	Industrial machinery for food and textile industries	105	4.58	6.81	0.94	14.22	22.71
39.	357*	Manufacture of machine tools, their parts and accessories	3827	225.76	476.37	69.33	697.29	859.95
40.	360	Manufacture of transformers and electricals	2978	257.47	452.20	44.51	2075.53	2379.62
41.	361	Manufacture of insulated wires and cables	1047	96.03	223.99	32.99	2778.13	2948.20
42.	364*	Manufacture of radio and television	1156	103.22	170.38	113.14	815.75	1051.92
43.	366	Manufacture of electronic components	424	20.89	42.42	1.97	275.27	341.61
44.	369*	Manufacture of electrical machinery	938	48.70	92.68	6.68	289.34	325.86
45.	370	Ship building and repairing	2375	188.09	427.34	48.02	1323.19	1939.85
46.	376*	Manufacture of bicycles and cycle-rickshaws and parts	2402	198.69	261.18	31.14	656.27	715.73
47.	380*	Manufacture of medical and surgical equipments	1441	105.81	202.23	11.86	817.75	1059.76
48.	400*	Generation and transmission of electric energy and distribution of electric energy to household, industrial, commercial and other users	229	1744.78	3108.84	161.73	315.84	3476.25
49.	973	Repair of motor vehicles and motor cycles	3973	413.44	522.09	45.55	200.84	1096.67
50.	979	Repair enterprises not elsewhere classified	1259	104.95	133.99	10.92	23.23	55.27
Total			238236	1055.76	16642.33	8232.93	145406.02	169690.37

Sl. No.	Industry	Name of Industry	Products	Other output	Total output	Depreciation	Value added
(1)	(2)	(3)	(17)	(18)	(19)	(20)	(21)
1.	202	Canning and preservation of fruits and vegetables	229.71	33.77	263.48	4.13	41.67
2.	203	Canning, preserving and processing of fish	2542.84	191.81	2734.65	27.16	48.51
3.	204	Grain mill products	568.40	19.73	588.13	5.75	42.92
4.	206	Manufacture and refining of sugar	1058.13	19.58	1077.72	18.00	353.46
5.	212	Tea processing	6562.05	62.37	6624.43	69.49	947.89
6.	213	Coffee curing, roasting and grinding	..	61.08	61.08	1.35	45.00
7.	214	Cashewnut processing like drying, shelling, roasting, salting etc.	9681.32	914.69	10596.02	37.18	1842.35
8.	222	Malt liquors and malt	1015.89	259.44	1275.33	43.78	251.79
9.	226	Manufacture of beedi	659.13	40.27	699.40	00.70	123.93
10.	231	Cotton spinning and weaving in mills	6642.39	581.00	7223.39	202.74	1800.51
11.	235	Weaving and finishing of textiles handlooms etc.	461.00	6.31	467.32	4.61	150.78
12.	236	Weaving and finishing—powerlooms	659.41	39.17	698.58	26.81	137.14
13.	260	Knitting mills	3091.90	50.62	3142.53	17.81	11741.20
14.	264	Manufacture of all types of textiles garments including wearing apparel	14.53	00.90	15.42	1.04	2.92
15.	268	Manufacture of coir and coir products	803.34	72.28	875.62	9.46	104.18
16.	270	Manufacture of veneer, plywood and their products	1492.10	34.04	15261.35	21.62	537.43

<i>Sl. No.</i>	<i>Industry code</i>	<i>Name of Industry</i>	<i>Products</i>	<i>Other output</i>	<i>Total output</i>	<i>Depreciation</i>	<i>Value added</i>
(1)	(2)	(3)	(17)	(18)	(19)	(20)	(21)
17.	271	Sawing and planing of wood (other than plywood)	125.44	2.10	127.54	1.02	28.28
18.	276	Manufacture of wooden furniture and fixtures	175.09	00.23	175.32	6.13	62.89
19.	280	Manufacture of paper and paper board	4721.48	150.12	4871.60	276.51	787.39
20.	284	Printing and publishing of newspapers	2318.40	102.54	2420.94	46.39	453.31
21.	285	Printing and publishing of books and journals	378.29	207.47	585.76	261.77	263.43
22.	289	Printing of picture and post cards	218.15	76.19	294.34	6.57	79.48
23.	300	Tyre and tube industries	4254.33	154.66	4408.99	314.20	246.30
24.	302	Manufacture of rubber products—others	81998.99	1490.41	83489.40	210.85	3930.73
25.	310	Manufacture of organic and inorganic chemicals	7328.90	83.25	7412.15	315.61	2620.32
26.	311*	Manufacture of fertilizers and pesticides	18893.70	78.70	18889.90	1180.02	4300.02
27.	313	Manufacture of drugs and medicines	1319.74	11.11	1330.85	30.83	388.42
28.	314	Manufacture of perfumes and lotions	6356.53	55.12	6411.64	60.53	834.00
29.	316*	Manufacture of turpentine	3276.34	50.15	3326.50	206.76	250.27
30.	320	Manufacture of structural clay products	1390.39	24.18	1414.57	28.49	843.39
31.	323*	Manufacture of chinaware and porcelainware	475.96	3.52	479.48	14.75	174.52
32.	329*	Manufacture of non-metallic mineral products	1159.64	1128.02	1176.55	39.60	391.38
33.	330	Iron and steel industries	1509.78	187.76	1697.54	21.70	215.78

34.	331*	Casting and forging of iron and steel	3369.55	96.60	3466.15	37.42	944.66
35.	340	Manufacture of metal cane and tin plate	279.27	385.39	664.67	34.31	61.86
36.	341*	Manufacture of structural metal products	153.16	1.77	154.93	3.34	59.95
37.	343*	Manufacture of hand tools and hardware	768.13	44.49	812.62	18.88	181.20
38.	353*	Industrial machinery for food and textile industries	27.44	2.25	29.69	1.17	6.81
39.	357*	Manufacture of machine tools, their parts and accessories	1693.73	73.08	1766.80	58.41	848.45
40.	360	Manufacture of transformers and electricals	3155.34	185.57	3340.90	74.03	887.25
41.	361	Manufacture of insulated wires and cables	3519.52	23.32	3542.83	25.59	569.04
42.	364*	Manufacture of radio and television	1460.02	30.40	1490.42	26.72	411.78
43.	366	Manufacture of electronic components	415.70	55.88	471.58	10.67	119.30
44.	369*	Manufacture of electrical machinery	607.77	27.98	635.75	40.04	69.95
45.	370	Ship building and repairing	2478.78	1148.43	3627.22	298.90	1388.47
46.	376*	Manufacture of bicycles and cycle-rickshaws and parts	612.78	399.15	1011.93	11.29	284.91
47.	380*	Manufacture of medical and surgical equipments	1507.25	245.62	1752.87	40.83	652.28
48.	400*	Generation and transmission of electric energy and distribution of electric energy to household industrial, commercial and other users.	12356.51	17.80	12374.31	1067.06	7831.00
49.	973	Repair of motor vehicles and motor cycles	..	1696.60	1696.60	14.06	585.87
50.	979	Repairs enterprises not elsewhere classified	1.35	199.14	200.50	2.70	142.53
Total			203775.23	9631.79	213407.02	5123.59	38593.06

\* Covers figures of same industry, industries having less than 3 units in each selected for integration with this industry





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