



GOVERNMENT OF KERALA

# **REPORT ON ANNUAL SURVEY OF INDUSTRIES 2011-12**

**CENTRAL AND STATE SAMPLE POOLED**

**DEPARTMENT OF ECONOMICS AND STATISTICS  
KERALA**



***Government of Kerala***

***Report on Annual Survey of  
Industries  
(Central & State Sample Pooled)  
2011-12***

***Directorate of Economics and Statistics***

***August 2016***



## **PREFACE**

The Annual Survey of Industries (ASI) provides information on important characteristics for objectively evaluating the industrial scenario of Kerala. It is the principal source of industrial statistics in the state. It provides statistical information to assess and evaluate, objectively and realistically, the changes in the growth, composition and structure of organized manufacturing sector.

From ASI 2010-11 onwards, the survey is to be conducted annually under the statutory provisions of the Collection of Statistics (COS) Act, 2008 and the rules framed there-under in 2011. The principal objective of statistical survey and enquiries on industry is to provide effective tools to planners and policy makers to measure the performance of industry.

The Report on ASI 2011-12 in the State throws light on salient features of the industry related activities, such as the data on Principal characteristics of the capital structure, district level performance, employment details etc.

State has taken up field work in the districts from industrial units for the year 2011-12. After the field work ,data processing, validation, tabulation of data collected were done in accordance with the guidelines of Central Statistical Office, Kolkata. This report is based on the pooled data from sample units surveyed by DES and data from Central Sample supplied by Central Statistical Office (IS wing) , Kolkata.

This report has been prepared by ASI Division of the Directorate of Economics and Statistics under the leadership of Sri. P.V.Babu, Additional Director (State Income).I acknowledge the tireless work done by all of the District Level Officers and field staff to make the survey a success. The technical assistance provided by Central Statistical Office (IS wing) , Kolkata and the co-operation extended by the Industrial Units selected for the survey is duly acknowledged. The technical support given by NSSO (FOD),Thiruvananthapuram and Sri. Rajiv Kumar, S O , NSSO (FOD), Kollam is also acknowledged. Also the financial support extended by the 13<sup>th</sup> Finance commission is acknowledged.

I hope that this publication will be useful as a reference book in Industrial Statistics. Constructive suggestions to improve this publication is always welcome.

**V.RAMACHANDRAN**

***DIRECTOR GENERAL***



**Team Associated in the Preparation of ASI Report 2011-12**

<b>Sl No</b>	<b>Name</b>	<b>Designation</b>
<b>1.</b>	<i>P V Babu</i>	Additional Director(State Income)
<b>2.</b>	<i>Rekha R</i>	Assistant Director (ASI Division)
<b>3.</b>	<i>V.Vijayakumar</i>	Research Officer (ASI Division)
<b>4.</b>	<i>Anilkumar C</i>	Research Assistant(ASI Division)
<b>5.</b>	<i>Abhilash K V</i>	Research Assistant(Computer Division)
<b>6.</b>	<i>Baby Sindhu</i>	Statistical Assistant Gr II (ASI Division)



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## ***Highlights***

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The Annual Survey of Industries (ASI) is the most important source of industrial statistics of the registered/organised manufacturing sector of the economy. Reference period for ASI 2011-2012 was the accounting year of the factory, ending on any day during the fiscal year 2011-2012 and the survey was conducted in the year 2012-13. Highlights of key results of ASI 2011-12 are presented below :

- ☆ Across the State, there are 7,021 factories in the organised manufacturing sector.
- ☆ These units provide employment to 3.63 Lakhs persons during the year 2011-12 and contributed Rs. 10,243.46 Crores of Net Value Added in the Manufacturing sector.
- ☆ Fixed capital invested in the factories was estimated at Rs. 15,599.98 Crore, productive capital at Rs. 23,851.13 Crore and invested capital at Rs.29,550.44 Crore.
- ☆ Among the 7,021 units, industry of Manufacturing of Food products tops with 19.76%.
- ☆ Total output worked out as Rs.1, 09,860.32 Crores. Out of this, 43% of the total output contributed by the Industry of Manufacturing of coke and refined petroleum products.
- ☆ Net Value added is a measure of the relative importance of the industrial sector in the State economy. Net value added for the year 2011-12 estimated as 10,243.45 Crores.



# Chapter 1

## Introduction

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### 1.1 Scope and Coverage

The Annual Survey of Industries (ASI) has been conducted since 1959 under the Collection of Statistics Act, 1953. From ASI 2010-11, the survey is being conducted under the Collection of Statistics Act, 2008. In accordance with the provisions of the Collection of Statistics (Central) Rules, 2011 framed under this Act, it had been designed to obtain comprehensive and detailed data with the objectives of estimating the contribution of registered manufacturing industries as a whole to the national income by type of industry, systematic study of the structure of the industry in the economy, occasional analysis of the various factors influencing industries in the country to facilitate the construction of comprehensive, factual and systematic bases for formulation of policy.

Coverage of the Annual Survey of Industries extends to the entire Factory Sector comprising industrial units (called factories) registered under the Sections 2(m)(i) and 2(m)(ii) of the Factories Act, 1948, wherein a 'Factory', which is the primary statistical unit of enumeration for the ASI, is defined as:

*'Any premises' including the precincts thereof: -*

*(i) Wherein 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) Wherein 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, but does not include a mine subject to the operation of the Mines Act, 1952, or a railway running shed.*

*The ‘manufacturing process’ referred to above has been defined [vide Section 2(k)] in the Factories Act, 1948 as:*

*‘Any process’ for:*

*(i) making, altering, ornamenting, finishing, packing, oiling, washing, cleaning, breaking up, demolishing or otherwise treating or adapting any article or substance with a view to its use, sale, transport, delivery or disposal; or,*

*(ii) pumping oil, water or sewage ; or,*

*(iii) generating , transforming or transmitting power; or,*

*(iv) composing types for printing by letter press, lithography, photogravure or other similar process or book binding; or,*

*(v) constructing, reconstructing, repairing, refitting, finishing or breaking up ships or vessels; or,*

*(vi) preserving or storing any article in cold storage.*

In addition to Sections 2(m)(i) & 2(m)(ii) of the Factories Act, 1948, bidi & cigar units, employing 10 or more workers with the aid of power and 20 or more workers without the aid of power and registered under the Bidi & Cigar Workers (Conditions of Employment) Act, 1966 are also covered in ASI.

Although the scope of the ASI was extended to all registered manufacturing establishments in the country, establishments under the control of the Defence Ministry, oil storage and distribution units, restaurants and cafes and technical training institutions not producing anything for sale or exchange were kept outside the coverage of the ASI. The geographical coverage of the Annual Survey of Industries, 2011-12 has been extended to the entire country.

## **1.2 Unit of Enumeration**

The primary unit of enumeration in the survey is a factory in the case of manufacturing industries, a workshop in the case of repair services, an undertaking or a licensee in the case of electricity, gas and water supply undertakings and an establishment in the case of bidi and cigar industries. The owner of two or more establishments located in the same state and pertaining to the same industry group and belonging to Census Scheme only is, however, permitted to furnish a single consolidated return, termed as 'Joint Return'. Such consolidated returns are a common feature in the case of bidi and cigar establishments, electricity and certain public sector undertakings.

## **1.3 ASI Frame**

The ASI frame is based on the lists of registered factories / units maintained by the Chief Inspector of Factories (CIF) in the State and those maintained by registration authorities in respect of bidi and cigar establishments and electricity undertakings. The frame is being revised and updated periodically by the Regional Offices of the Field Operations Division (FOD) of NSSO in consultation with the Chief Inspector of Factories in the State. At the time of revision, the names of the de-registered factories are removed from the ASI frame and those of the newly registered factories are added. In updation, only new registrations are added to the existing frame. In spite of regular updating of the frame, quite a number of small-sized factories selected for the survey are found to be non-existing in the field and are termed as deleted factories. However, such factories are not taken into consideration for the purpose of tabulation and analysis in this report.

All electricity undertakings other than captive units as well as all departmental undertakings such as Railway workshops, etc. have been kept outside the purview of ASI from 1999-2000.

Apart from the factories in operation, the ASI frame comprises factories which are categorised as 'closed units' and 'non-operating units'.

### **1.4 Reference Period**

Reference period for ASI 2011-12 was the accounting year of the factory, ending on any day during the fiscal year 2011-12. Thus in ASI 2011-12, data collected from establishments relate to their respective accounting years that ended on any day between 1<sup>st</sup> April 2011 and 31<sup>st</sup> March 2012. Survey was conducted in the year 2012-2013.

### **1.5 Sample Design and Sample Allocation**

As per the decision taken by the Standing Committee on Industrial Statistics (SCIS), a new sampling design has been adopted since ASI 2007-08. Accordingly, for ASI 2011-2012, the Census Sector has been defined as follows:

a) All industrial units belonging to the six less industrially developed states/ UT's viz. Manipur, Meghalaya, Nagaland, Sikkim, Tripura and Andaman & Nicobar Islands.

b) For the rest of the states/ UT's., (i) units having 100 or more persons engaged, and (ii) all factories covered under Joint Returns.

After selection of Census Sector as above, strata, namely, State by Sector (i.e. Bidi, Manufacturing and Electricity) by 4-digit of National Industrial Classification (NIC-08), having less than or equal to four units are also selected as Census Sector.

After selecting the central sample, rest of the ASI frame is treated as **residual frame** and is used for drawing the state sample for State/UTs. Since, the States and UTs are interested to find district level estimates, the stratification is done afresh for this residual sample. For each state/UT, the stratum consists of *District x 3-digit NIC 2008*. Within each stratum, the sample is drawn circular systematically with sampling fraction of 10%. The purpose of introducing the residual sample was to increase the sample size for the sample sector of the states so as to get more reliable estimates at district level. The validated unit level data of the Central sample is also sent to the states/UTs for pooling data with surveyed data to get a combined estimate at sub-state level.

## **1.6 Estimation Procedure**

The sample design and procedures for estimation of the characteristics are shown in **Annexure-II**.

The results presented in the publication are based on the state sample data collected and processed by DES. The estimated value figures given in this publication are reported in current prices. The value figures are generally rounded off to lakhs of rupees. All Kerala figures are rounded off separately and may not tally with the sum of district figures. Similarly, all-Industry figures may not tally with the sum of individual industry figures. Also the industry-wise totals at lower level may not tally with the next higher level due to necessary merging at different levels.

## **1.7 Schedule of Enquiry**

The schedule for ASI 2011-12 Part-I aims to collect data on assets and liabilities, employment and labour cost, receipts, expenses, input items - indigenous and imported, products and by-products, distributive expenses etc.

## **1.8 Classification of Industries**

From ASI 2008-09, NIC- 2008 has been the base of industry classification. It classifies all the factories in the ASI frame in their appropriate industry groups on the basis of the principal product manufactured. This way a unit gets classified in one and only one industry group even though it might be manufacturing products belonging to different industries. The estimates for different aggregates presented in this report at two or three digit level of industry correspond to the NIC-2008 classification.

## **1.9 Publications and Limitations**

The results of ASI 2011-12 are released at 2-digit/3-digit level NIC-2008 for the State. The list of 2/3-digit level of NIC-2008 codes along with descriptions is given in Appendix IV. This publication contains tables related to capitals and value added, employment and labour cost, fuels consumed .



The Collection of Statistics Act prohibits disclosure of data relating to individual factories. Therefore, if the number of factories under any industry (2-digit/3-digit level of NIC-2008) in the state is less than three, the data have been combined to a similar industry in order to conceal the identity of all such units belonging to the concerned stratum.

All the estimates, especially for quantity and value figures for any particular item consumed and produced ,are subject to Statistical Error as these are estimated on the basis of a selected Sample. The consumptions and productions are not estimated separately for those items for which the number of observations is insufficient. They have been reported under 'others' as the estimates for those items may not be proper.

As per tabulation policy it has been decided to publish the detailed information corresponding to industry codes 10 to 33 and 58 following NIC-2008. For all other industry codes, the units have been clubbed and shown under a common industry '**Other**' in different tables.

## **Chapter 2**

# **Concepts and Definitions**

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Important concepts and definitions used in ASI are explained below.

A number of accounting, economic and other terms related to the factories are used in conduct of Annual Survey of Industries. For proper assessment and interpretation of ASI data, those are given below.

**Accounting Year:** For the purpose of ASI, the accounting year is the period on which the factory closes its books of account. With the enactment of Income Tax Act, by and large, the accounting year of all factories is from April to March.

**Reference Period:** It corresponds to the financial year. For example, for ASI 2011- 2012 the reference period is the financial year commencing from 1<sup>st</sup> April 2011 and ending on 31<sup>st</sup> March 2012 or the accounting year of the factory ending on any date between 01.04.2011 to 31.03.2012.

**Survey Period:** Survey period is a period during which work of any Annual Survey of Industries is undertaken. Since ASI 1978-79 the survey period has been fixed from 1<sup>st</sup> July to 30<sup>th</sup> June of the next year. From ASI 1998-99 the survey period has been changed from 12 months to 4 months i.e. from Nov'99 to Feb'2000. The survey period for ASI 99-00 has been again changed from October to March. The survey period for ASI 2011-2012 is from October, 2012 to May, 2013.

**Factory (as per the Factory Act 1948):** 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 precinct thereof (i) wherein 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) wherein 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. Closed factories with fixed assets on site are also considered as registered factories till they are de-registered and removed from the live-register maintained by the Chief Inspector of Factories (CIF) in the State.

**Manufacturing Process:** This is as per Section 2(k) of the Factories Act, 1948, and briefly mentioned in Section 1.

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

**Fixed Capital:** 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 type of assets, new or used or own constructed, deployed for productions, transportation, living or recreational facilities, hospitals, schools, etc. for factory personnel. It would include land, building, plant and machinery, transport

equipment etc. 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.

**Depreciation:** 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 if not provided by the factory this is estimated on the basis of cost of installation and working life of the fixed assets.

**Finished Goods:** Finished Goods are those, which are manufactured by the factory for sale. Finished goods should conform to a prescribed standard.

**Physical Working Capital:** This 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 value of stock of materials, fuels and stores etc. purchased expressly for re-sale, semi-finished goods and goods-in-process on account of others and goods made by the factory which are ready for sale at the end of the accounting year. However, it does not include the stock of the materials, fuels, stores, etc. supplied by others to the factory for processing. Finished goods processed by others from raw materials supplied by the factory and held by them are included and finished goods processed by the factory from raw materials supplied by others, are excluded.

**Working Capital:** Working Capital is the sum total of the physical working capital as already defined above and the cash deposits in hand and at bank, land, the net balance of amounts receivable over amounts payable at the end of the accounting year. Amounts receivable include value of credit items on revenue account, such as sums due to the factory for goods sold, amounts advanced in connection with normal factory work, bills of exchange payable to the factory, payments made in advance such as for fire insurance, telephone charges, rates and taxes, call deposits and security deposits having a normal life of less than one year, etc. It excludes unused overdraft facility, fixed deposits irrespective of duration, advances for acquisition of fixed assets, long-term loans including interest thereon and investment.

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

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

**Outstanding Loans:** 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.

**Contract Worker:** All persons who are not employed directly by an employer but through the third agency, i.e. contractor, are termed as contract workers. Those workers may be employed with or without the knowledge of the principal employer.

**Employees:** Employees relate to all persons engaged by the factory whether for wages or not, in work connected directly or indirectly with the manufacturing process and include all administrative, technical and clerical staff as also labour 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 production of fixed assets for the factory. It also includes 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 work in or for the factory in any direct and productive capacity. Persons in the head office connected with the manufacturing activity of the factory are also included in this item.

**Labour Turnover:** Labour turnover measures the extent of change in the working force due to accession and separation during a given period. The term 'accession' was defined as the total number of workers added to employment during the period, whether new or re-employed or transferred from other establishments or units under the same management. Inter- departmental transfers within the same establishment are, however ignored. The term 'separation' implies termination of employment at the instance of worker or employers. It includes termination of services due to death or retirement. As in the case of accession, transfers to other establishments are included but transfers within the same establishment are ignored. Retrenchment as a result of rationalisation or modernisation or any other cause, is also treated as separation.

**Wages:** Wages are defined to include all remuneration capable of being expressed in monetary terms and also payable/paid more or less regularly in each pay period to workers (defined above) as compensation for work done during the accounting year. It **includes:**

- (i) Direct wages and salary (i.e. basic wages/salaries, payment of overtime, dearness, compensatory, house rent and other allowances);

(ii) Remuneration for period not worked (i.e. basic wages), salaries and allowances payable for leave period, paid holidays, lay-off payments and compensation for unemployment (if not paid from source other than employers);

(iii) Bonus and ex-gratia payment paid both at regular and less frequent intervals (i.e., incentive bonuses and good attendance bonuses, production bonuses, profit sharing bonuses, festival or yearend bonuses etc.).

It **excludes** layoff payments and compensation for employment except where such payments are for this purpose, i.e., payments not made by the employer. It **excludes** employer's contribution to old age benefits and other social security charges, direct expenditure on maternity benefits and creches and other group benefit in kind and travelling and other expenditure incurred for business purposes and reimbursed by the employer. The wages are expressed in terms of gross value, i.e., before deductions for fines, damages, taxes, provident fund, employee's state insurance contribution etc. Benefits in kind (perquisites) of individual nature are only **included**.

**Bonus:** Profit sharing bonus, festival bonus, year-end bonus, and all other bonuses and ex-gratia payments paid at less frequent intervals are covered by this term.

**Workmen and Staff Welfare Expenses:** These include expenditure incurred by the employer on the maternity benefits and crèches and other benefits such as supply of food, beverages, tobacco, clothing and group lodging at concessional rates and educational, cultural and recreational facilities and services and grants to trade unions and cooperative stores meant for employees. All group benefits are included.

**Emoluments:** These are defined in the same way as wages but paid to all employees plus imputed value of benefits in kind i.e. the net cost to the employers on those goods and services provided to employees free of charge or at markedly reduced cost which are clearly and primarily of benefit to the employees as consumers. It includes profit sharing, festival and other bonuses and ex-gratia payments paid at less frequent intervals (i.e. other than bonus paid more or less regularly for each period). Benefits in kind include supplies or services rendered such as housing, medical, education and recreation facilities. Personal insurance, income tax, house rent allowance, conveyance etc. for payment by the factory also is included in the emoluments.

**Supplements to Emoluments:** These include: (i) employer's contribution to old age benefits, i.e., provident fund, pension, gratuity, etc.; (ii) employer's contribution towards other social security charges such as Employees' State Insurance, compensation for work injuries, occupational diseases, maternity benefits, retrenchment and lay-off benefits etc.; and (iii) group benefits like direct expenditure on maternity, creches, canteen facilities, educational, cultural and recreational facilities and grant to trade unions, co-operative stores etc. meant for employees.

**Compensation of Employees:** Compensation of employees is the total of emoluments and supplement to emoluments.

**Mandays Worked:** These are obtained by summing up the number of mandays worked by persons working in each shift over all the shifts on all days, i.e. both manufacturing and non-manufacturing days. This figure excludes persons who are paid but remain on leave, strike, etc.

**Mandays Paid For:** The number of mandays paid for is arrived at by summing up the number of employees paid for in each



shift. This also includes mandays on weekly schedule holidays if paid for and those absences with pay as also mandays lost through lay off/ strike for which compensation was payable.

**Working Day:** Working day means the days on which a manufacturing process and/ or repair or maintenance work was carried on.

**Non-working Day:** Apart from manufacturing day and repair and maintenance days there may be some non-working days. Non working days are those days on which the workers give their attendance but due to non-availability of raw materials power etc. no effective work is done. As the workers are paid for these days such days are also taken into account for the purpose of labour statistics.

**Basic Materials:** Basic materials are the materials which are important and of key nature to the industry on which the manufacturing process is based, viz. metal for machine, leather for shoe. Such material is not lost through the process of production but only changes its forms.

**Consumable Stores:** All such materials which assist the manufacturing process and lose their identity without entering the products are called consumable stores, e.g., cotton waste.

**Fuel Consumed:** Fuel Consumed represent total purchase value of all items of fuels, lubricants, electricity, water (purchased to make steam) etc. consumed by the factory during the accounting year except 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.

**Materials Consumed:** 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. It also includes the cost of all the materials used in the production of fixed assets, including construction work for factory's own use. Components and accessories fitted as purchased with the finished product during the accounting year are also to be included. It excludes intermediate products. Intermediate products in the above context mean all those products which are produced by the factory and consumed for further manufacturing process.

**Total Input:** This comprises gross value of fuel 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 & used for further manufacture during the accounting year.

**Intermediate Product:** Intermediate Product is a product which is obtained during a manufacturing process, which may or may not be saleable and is not the intended final product.

**Net Value of Semi-Finished Goods:** It represents the excess/deficit of value of semi-finished goods and/or goods-in-process at the end of the accounting year over that at the beginning of year.

**Products:** These 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.

**Gross Output:** Gross output is defined to include the ex-factory value, (i.e., exclusive of taxes, duties, etc. on sale and inclusive of subsidies etc., if any) of products and by-products manufactured during the accounting year, and the net value of the semi-finished goods, work-in- process, (represents the excess/deficit of value of semi-finished goods or work-in-process at the end of the accounting year over that of the beginning of the year plus net balance of semi- finished fixed assets on factory's capital account) and also the receipts for industrial and non- industrial services rendered to others, value of semi-finished goods of last year sold in the current year, sale value of goods sold in the same condition as purchased and value of electricity generated and sold. Value of gross output and total output has been used in the text inter- changeable to mean the same thing.

**Industrial Services:** Any services taken or rendered from one to another unit resulting in increase in the value of material during the manufacturing process are industrial services.

**Non-Industrial Services:** All such services which do not have a direct bearing on the manufacturing process but are needed by any manufacturing unit are called non-industrial services, say, transport.

**Net Value Added:** This 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 gross value of output.

# Chapter 3

## Review of Results

**3.1** This chapter highlights the main findings of the survey which covers the main sectors of economic activity namely, Manufacturing & Repairing and other service activities.

Findings of the survey are based on *pooled data of Central Sample and State Sample*. Some important characteristics are presented below in Statement 3.1.

<b>Statement 3.1 : Estimate of selected characteristics for 2011-12</b>	
<b>All Industries</b>	<b>(Values in Rs Lakhs unless otherwise mentioned)</b>
<b>Characteristics</b>	
1. Number of Factories (no.)	7,021
2. Fixed Capital	15,59,998
3. Working Capital	8,25,116
4. Invested Capital	29,55,044
5. Productive Capital	23,85,113
6. Outstanding Loan	6,21,574
7. Interest Paid	1,12,809
8. No. of Workers (no.)	3,10,398
9. No. of Employees (no.)	3,63,246
10. Total Emoluments	5,62,506
11. Value of Product and By-Product	95,67,748
12. Total Output	109,86,032
13. Fuels Consumed	5,00,169
14. Materials Consumed	80,65,205
15. Total Inputs	98,03,836
16. Gross Value Added	11,82,196
17. Depreciation	1,57,850
18. Net Value Added	10,24,346
19. Profit	3,13,490

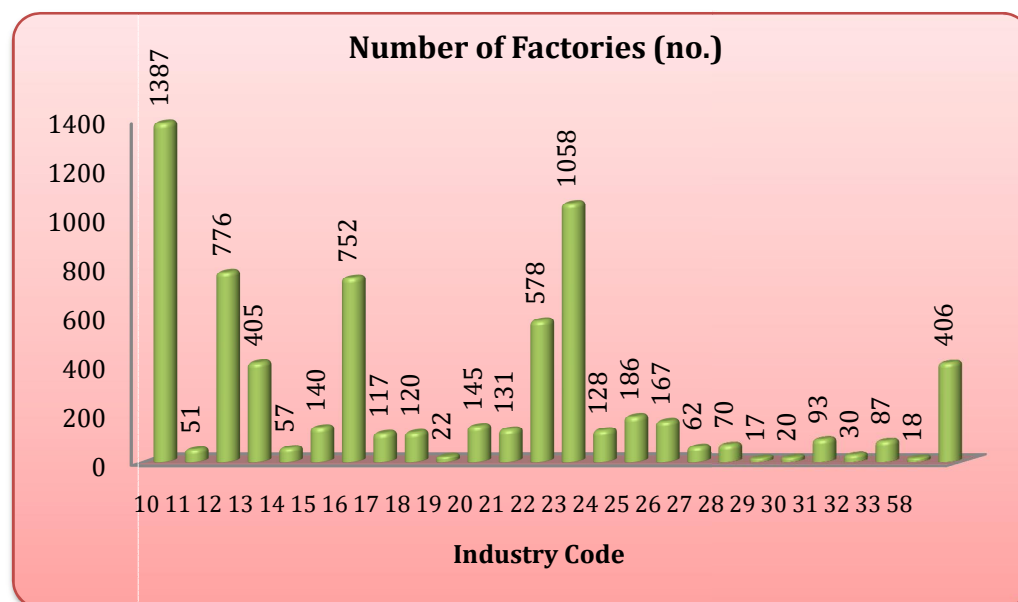
The summary results reveal that there are 7,021 factories in the State and providing employment to 3.63 Lakhs persons during the year 2011-12. These

factories with a productive capital of Rs. 23,851.13 Crores in the State produced goods value worth of Rs. 1,09,860.32 Crores and contributed Rs. 10,243.46 Crores of Net Value Added in the Manufacturing sector.

### 3.2 Distribution of Factories:

<b>Statement 3.2 Percentage Distribution of No. of Factories by Major Industry groups at 2digit NIC-08</b>			
<b>Nic 2digit</b>	<b>Description</b>	<b>2011-12</b>	
		<b>No.of Factories</b>	<b>Percentage (%)</b>
<b>10</b>	Manufacture of food products	1387	19.76
<b>11</b>	Manufacture of beverages	51	0.73
<b>12</b>	Manufacture of tobacco products	776	11.05
<b>13</b>	Manufacture of textiles	405	5.77
<b>14</b>	Manufacture of wearing apparel	57	0.81
<b>15</b>	Manufacture of leather and related products	140	1.99
<b>16</b>	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	752	10.71
<b>17</b>	Manufacture of paper and paper products	117	1.67
<b>18</b>	Printing and reproduction of recorded media	120	1.71
<b>19</b>	Manufacture of coke and refined petroleum products	22	0.31
<b>20</b>	Manufacture of chemicals and chemical products	145	2.07
<b>21</b>	Manufacture of pharmaceuticals, medicinal chemical and botanical products	131	1.87
<b>22</b>	Manufacture of rubber and plastics products	578	8.23
<b>23</b>	Manufacture of other non-metallic mineral products	1058	15.07
<b>24</b>	Manufacture of basic metals	128	1.82
<b>25</b>	Manufacture of fabricated metal products, except machinery and equipment	186	2.65
<b>26</b>	Manufacture of computer, electronic and optical products	167	2.37
<b>27</b>	Manufacture of electrical equipment	62	0.89
<b>28</b>	Manufacture of machinery and equipment n.e.c.	70	1.00
<b>29</b>	Manufacture of motor vehicles, trailers and semi-trailers	17	0.24
<b>30</b>	Manufacture of other transport equipment	20	0.28
<b>31</b>	Manufacture of furniture	93	1.32
<b>32</b>	Other manufacturing	30	0.43
<b>33</b>	Repair and installation of machinery and equipment	87	1.23
<b>58</b>	Publishing activities	18	0.25
	others	406	5.78
<b>Total</b>		<b>7021</b>	<b>100</b>

The summary results revealed that during the reference period of ASI 2011-2012, the larger numbers of factories were engaged in manufacturing of Food products (19.76%) followed by Manufacture of other non-metallic mineral products (15.07 %), Manufacture of tobacco products (11.05 %), Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials (10.71%), Manufacture



of rubber and plastics products (8.23%) and manufacture of Textiles (5.77%). These six industries together have accounted 70.59 percent of the total working factories, provided employment to 71.60 percent of the total employees and utilized 32.20 percent of fixed capital stock. Their share in net value added by manufacture is 49.30 percent.

### 3.3 Capital Structure

During the reference period 2011-2012, the fixed capital invested in the factories covered under the survey was estimated at Rs. 15599.98 crore, productive capital Rs. 23851.13 crore and invested capital Rs.29550.44 crore. Industries such as Manufacture of coke and refined petroleum products , Manufacturing of Food Products, Manufacture of chemicals and chemical products, Manufacture of textiles , Manufacture of rubber and plastics products were the most important ones. These industries among themselves shared 65.92 percent of fixed capital, 65.96 percent of invested capital in all the industries taken together.

Statement 3.3 - Percentage distribution of Fixed Capital ,Invested Capital, Productive Capital							
Nic 2digit	Description	2011-12 <i>(Values In Rs Lakhs)</i>					
		Fixed Capital	%	Investd Capital	%	Productive Capital	%
10	Manufacture of food products	219260	14.06	438037	14.8	381038	15.98
11	Manufacture of beverages	24332	1.56	40623	1.37	66902	2.80
12	Manufacture of tobacco products	1892	0.12	4176	0.14	4981	0.21
13	Manufacture of textiles	95697	6.13	162665	5.50	110240	4.62
14	Manufacture of wearing apparel	24309	1.56	34760	1.18	27327	1.15
15	Manufacture of leather and related products	6501	0.42	16562	0.56	8614	0.36
16	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	21548	1.38	42319	1.43	36078	1.51
17	Manufacture of paper and paper products	30342	1.95	42758	1.45	44360	1.86
18	Printing and reproduction of recorded media	47484	3.04	61992	2.10	61929	2.60
19	Manufacture of coke and refined petroleum products	499706	32.03	906794	30.69	488548	20.48
20	Manufacture of chemicals and chemical products	131299	8.42	251011	8.49	371168	15.56
21	Manufacture of pharmaceuticals, medicinal chemical and botanical products	27436	1.76	50760	1.72	38258	1.60
22	Manufacture of rubber and plastics products	82462	5.29	190512	6.45	139482	5.85
23	Manufacture of other non-metallic mineral products	81376	5.22	112875	3.82	96546	4.05
24	Manufacture of basic metals	42483	2.72	132926	4.50	58708	2.46
25	Manufacture of fabricated metal products, except machinery and equipment	19214	1.23	47369	1.60	46071	1.93
26	Manufacture of computer, electronic and optical products	43309	2.78	85765	2.90	81454	3.42
27	Manufacture of electrical equipment	8568	0.55	23159	0.78	25738	1.08
28	Manufacture of machinery and equipment n.e.c.	6768	0.43	16391	0.55	19978	0.84
29	Manufacture of motor vehicles, trailers and semi-trailers	636	0.04	3908	0.13	3723	0.16
30	Manufacture of other transport equipment	28249	1.81	68585	2.32	104276	4.37
31	Manufacture of furniture	9840	0.63	13070	0.44	9656	0.40
32	Other manufacturing	2969	0.19	7391	0.25	7103	0.30
33	Repair and installation of machinery and equipment	6456	0.41	9515	0.32	12353	0.52
58	Publishing activities	42550	2.73	45434	1.54	39296	1.65
	others	55311	3.55	145688	4.93	101287	4.25
	<b>Total</b>	<b>1559998</b>	<b>100.0</b>	<b>2955044</b>	<b>100.0</b>	<b>2385113</b>	<b>100</b>

### 3.4 Employment

The number of persons employed in the Factory Sector during 2011-2012 worked out to 3,63,246 of these, 3,02,971 (83.40%) were workers engaged exclusively in the production and/or repair services and the remaining 60,275 (16.60%) were other employees including supervisory, managerial, working proprietors and unpaid family workers.

<b>Statement 3.4- Distribution of Employment by Major Industry groups at 2digit NIC-08</b>					
Nic 2digit	Description	2011-12			
		Employees (No.)	(%)	Worker (No.)	(%)
10	Manufacture of food products	176767	48.66	143711	47.43
11	Manufacture of beverages	4803	1.32	4231	1.40
12	Manufacture of tobacco products	21491	5.92	19162	6.32
13	Manufacture of textiles	25233	6.95	19476	6.43
14	Manufacture of wearing apparel	8325	2.29	7102	2.34
15	Manufacture of leather and related products	2878	0.79	6178	2.04
16	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	6095	1.68	5446	1.80
17	Manufacture of paper and paper products	4508	1.24	4141	1.37
18	Printing and reproduction of recorded media	5136	1.41	3737	1.23
19	Manufacture of coke and refined petroleum products	4313	1.19	3358	1.11
20	Manufacture of chemicals and chemical products	10949	3.01	8923	2.95
21	Manufacture of pharmaceuticals, medicinal chemical and botanical products	7949	2.19	4604	1.52
22	Manufacture of rubber and plastics products	16781	4.62	19669	6.49
23	Manufacture of other non-metallic mineral products	13736	3.78	13020	4.30
24	Manufacture of basic metals	5405	1.49	4440	1.47
25	Manufacture of fabricated metal products, except machinery and equipment	7871	2.17	4138	1.37
26	Manufacture of computer, electronic and optical products	8000	2.20	3361	1.11
27	Manufacture of electrical equipment	4318	1.19	3935	1.30
28	Manufacture of machinery and equipment n.e.c.	4786	1.32	2526	0.83



<b>Statement 3.4- Distribution of Employment by Major Industry groups at 2digit NIC-08</b>					
Nic 2digit	Description	2011-12			
		Employees (No.)	(%)	Worker (No.)	(%)
29	<b>Manufacture of motor vehicles, trailers and semi-trailers</b>	<b>560</b>	<b>0.15</b>	<b>267</b>	<b>0.09</b>
30	Manufacture of other transport equipment	5243	1.44	5206	1.72
31	Manufacture of furniture	1401	0.39	2214	0.73
32	Other manufacturing	904	0.25	887	0.29
33	Repair and installation of machinery and equipment	1601	0.44	472	0.16
58	Publishing activities	1961	0.54	897	0.30
	others	12235	3.37	11873	3.92
	<b>Total</b>	<b>363246</b>	<b>100.00</b>	<b>302971</b>	<b>100</b>

### 3.5 Emoluments

A sum of Rs. 5625.06 Crore was paid as emoluments to all employees during 2011-2012 of which Rs. 2347.70 crore was paid as wages to workers and remaining Rs.3277.36 crore as payment to other employee's bonus and value of benefits in kind etc. (see Statement 3.5)

The total emoluments paid to all employees, wages to workers at 2-digit NIC-08 have been indicated in the statement 3.5 given below:

**Statement 3.5- Distribution of Emoluments by Major Industry groups at 2digit NIC-08**

Nic 2digit	Description	2011-12 (Values In Rs Lakhs)			
		Emolu- ments	(%)	Wages to workers	(%)
10	Manufacture of food products	126938	48.66	64666	27.54
11	Manufacture of beverages	7281	1.32	4067	1.73
12	Manufacture of tobacco products	23289	5.92	4965	2.11
13	Manufacture of textiles	31690	6.95	16146	6.88
14	Manufacture of wearing apparel	8518	2.29	4216	1.80
15	Manufacture of leather and related products	3049	0.79	1754	0.75
16	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	5864	1.68	3024	1.29
17	Manufacture of paper and paper products	10405	1.24	5304	2.26
18	Printing and reproduction of recorded media	19342	1.41	5819	2.48
19	Manufacture of coke and refined petroleum products	33370	1.19	9901	4.22
20	Manufacture of chemicals and chemical products	58289	3.01	23168	9.87
21	Manufacture of pharmaceuticals, medicinal chemical and botanical products	13444	2.19	5614	2.39
22	Manufacture of rubber and plastics products	42176	4.62	21088	8.98
23	Manufacture of other non-metallic mineral products	26298	3.78	14453	6.16
24	Manufacture of basic metals	8060	1.49	4273	1.82
25	Manufacture of fabricated metal products, except machinery and equipment	40569	2.17	5896	2.51
26	Manufacture of computer, electronic and optical products	26485	2.20	9677	4.12
27	Manufacture of electrical equipment	10679	1.19	4900	2.09
28	Manufacture of machinery and equipment n.e.c.	7276	1.32	3505	1.49
29	Manufacture of motor vehicles, trailers and semi-trailers	1002	0.15	529	0.23
30	Manufacture of other transport equipment	20995	1.44	6851	2.92
31	Manufacture of furniture	1716	0.39	1107	0.47
32	Other manufacturing	1165	0.25	567	0.24
33	Repair and installation of machinery and equipment	3453	0.44	1126	0.48
58	Publishing activities	7524	0.54	2220	0.95
	others	23628	3.37	9933	4.23
	<b>Total</b>	<b>562506</b>	<b>100.00</b>	<b>234770</b>	<b>100.00</b>

### 3.6 Total Inputs

In any industrial activity , inputs are mainly consists of consumption of raw materials and stores (used for manufacture, repair and maintenance purposes), 'fuels' materials consumed and also other inputs like cost of non-industrial services received from others , cost of materials consumed for repair & maintenance of factory's fixed assets including cost of work done by others to the factory's fixed assets, cost of contract and commission work done by others on materials supplied by the factory , cost of office supplies and products reported for sale during last year & used for further manufacture during the accounting year.

<b>Statement 3.6      Percentage Distribution Inputs by Major Industry      groups at 2digit NIC-08</b>			
<b>Nic 2digit</b>	<b>Description</b>	<b>2011-12</b>	
		<b>Total Input ( Rs Lakhs)</b>	<b>(%)</b>
<b>10</b>	Manufacture of food products	1663683	16.97
<b>11</b>	Manufacture of beverages	113980	1.16
<b>12</b>	Manufacture of tobacco products	15090	0.15
<b>13</b>	Manufacture of textiles	241164	2.46
<b>14</b>	Manufacture of wearing apparel	32933	0.34
<b>15</b>	Manufacture of leather and related products	36256	0.37
<b>16</b>	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	58538	0.60
<b>17</b>	Manufacture of paper and paper products	61089	0.62
<b>18</b>	Printing and reproduction of recorded media	86866	0.89
<b>19</b>	Manufacture of coke and refined petroleum products	4619199	47.12
<b>20</b>	Manufacture of chemicals and chemical products	487970	4.98
<b>21</b>	Manufacture of pharmaceuticals, medicinal chemical and botanical products	67125	0.68
<b>22</b>	Manufacture of rubber and plastics products	995713	10.16
<b>23</b>	Manufacture of other non-metallic mineral products	136012	1.39
<b>24</b>	Manufacture of basic metals	343687	3.51
<b>25</b>	Manufacture of fabricated metal products, except machinery and equipment	195312	1.99
<b>26</b>	Manufacture of computer, electronic and optical products	162836	1.66

<b>27</b>	Manufacture of electrical equipment	38966	0.40
<b>28</b>	Manufacture of machinery and equipment n.e.c.	28960	0.30
<b>29</b>	Manufacture of motor vehicles, trailers and semi-trailers	2319	0.02
<b>30</b>	Manufacture of other transport equipment	110049	1.12
<b>31</b>	Manufacture of furniture	7069	0.07
<b>32</b>	Other manufacturing	12362	0.13
<b>33</b>	Repair and installation of machinery and equipment	12887	0.13
<b>58</b>	Publishing activities	24193	0.25
	others	249580	2.55
<b>Total</b>		<b>9803836</b>	<b>100.00</b>

The total value of the inputs (other than labour input and depreciation) estimated as Rs.98038.36 Crore. Out of total input, consumption of materials being the principal components accounted for Rs. 80652.05 (82.26%) Crore (see Statement 3.6(i)) of the total value of input. Also, fuel consumption accounted for Rs. 5001.69 (5.10%) Crores and other inputs accounted for Rs. 12384.62 (12.63%) Crores.

<b>Statement 3.6(i)- Distribution of Materials, Fuel Consumed by Major Industry groups at 2digit NIC-08</b>					
<b>Nic 2digit</b>	<b>Description</b>	<b>2011-12 (Values in Rs Lakhs)</b>			
		<b>Materials</b>	<b>(%)</b>	<b>Fuel</b>	<b>(%)</b>
10	Manufacture of food products	1318704	16.35	37105	7.42
11	Manufacture of beverages	93460	1.16	3279	0.66
12	Manufacture of tobacco products	9448	0.12	72	0.01
13	Manufacture of textiles	182771	2.27	11387	2.28
14	Manufacture of wearing apparel	26626	0.33	2379	0.48
15	Manufacture of leather and related products	27370	0.34	633	0.13
16	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	44812	0.56	4179	0.84
17	Manufacture of paper and paper products	42729	0.53	13567	2.71
18	Printing and reproduction of recorded media	55724	0.69	1601	0.32
19	Manufacture of coke and refined petroleum products	4217771	52.30	270489	54.08

20	Manufacture of chemicals and chemical products	398009	4.93	47216	9.44
21	Manufacture of pharmaceuticals, medicinal chemical and botanical products	45859	0.57	3401	0.68
22	Manufacture of rubber and plastics products	889644	11.03	27591	5.52
23	Manufacture of other non-metallic mineral products	71733	0.89	27080	5.41
24	Manufacture of basic metals	290332	3.60	31332	6.26
25	Manufacture of fabricated metal products, except machinery and equipment	49423	0.61	3711	0.74
26	Manufacture of computer, electronic and optical products	105915	1.31	2434	0.49
27	Manufacture of electrical equipment	30362	0.38	856	0.17
28	Manufacture of machinery and equipment n.e.c.	25299	0.31	400	0.08
29	Manufacture of motor vehicles, trailers and semi-trailers	2093	0.03	23	0.00
30	Manufacture of other transport equipment	80532	1.00	1997	0.40
31	Manufacture of furniture	5130	0.06	325	0.07
32	Other manufacturing	8974	0.11	159	0.03
33	Repair and installation of machinery and equipment	8324	0.10	285	0.06
58	Publishing activities	16819	0.21	634	0.13
	others	17342	0.22	8033	1.61
	<b>Total</b>	<b>8065205</b>	<b>100.00</b>	<b>500169</b>	<b>100.00</b>

### 3.7 Total Output & Net value Added (NVA)

In any industry, output includes products, by-products and services generated during the industrial process. The value of total output worked out as Rs. 1,09,860.32 Crore.

The contribution of Major Industry Group 19- Manufacture of coke and refined petroleum products, worth of Rs.47243.77 Crore, which accounted 43 % of the total products is the maximum. Major Industry Groups, Industry group 10- Manufacture of food products with 16.87 percent, Industry Group 22- Mfg. of Rubber and Plastic Products with 10.27 percent came next in that order. These three major Industry Groups together contributes 70.14 percent of the total output in the industry sector.

**Statement 3.7- Distribution of Output & NVA by Major Industry groups at 2digit NIC-08**

Nic 2digit	Description	2011-12 (Values in Rs Lakhs)			
		Output	(%)	NVA	(%)
10	Manufacture of food products	1853305	16.87	169286	16.53
11	Manufacture of beverages	132755	1.21	16314	1.59
12	Manufacture of tobacco products	21433	0.20	5912	0.58
13	Manufacture of textiles	351863	3.20	100255	9.79
14	Manufacture of wearing apparel	47396	0.43	13013	1.27
15	Manufacture of leather and related products	42852	0.39	5704	0.56
16	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	73369	0.67	11269	1.10
17	Manufacture of paper and paper products	76086	0.69	12751	1.24
18	Printing and reproduction of recorded media	126525	1.15	34502	3.37
19	Manufacture of coke and refined petroleum products	4724377	43.00	57834	5.65
20	Manufacture of chemicals and chemical products	663231	6.04	161836	15.80
21	Manufacture of pharmaceuticals, medicinal chemical and botanical products	96652	0.88	27037	2.64
22	Manufacture of rubber and plastics products	1128470	10.27	120196	11.73
23	Manufacture of other non-metallic mineral products	242036	2.20	98114	9.58
24	Manufacture of basic metals	360396	3.28	13210	1.29
25	Manufacture of fabricated metal products, except machinery and equipment	209179	1.90	11245	1.10
26	Manufacture of computer, electronic and optical products	213092	1.94	44461	4.34
27	Manufacture of electrical equipment	55374	0.50	15554	1.52
28	Manufacture of machinery and equipment n.e.c.	38710	0.35	9052	0.88
29	Manufacture of motor vehicles, trailers and semi-trailers	4722	0.04	2298	0.22
30	Manufacture of other transport equipment	143517	1.31	31924	3.12
31	Manufacture of furniture	9598	0.09	2140	0.21
32	Other manufacturing	15514	0.14	2809	0.27
33	Repair and installation of machinery and equipment	17030	0.16	3391	0.33
58	Publishing activities	38480	0.35	11965	1.17
	others	300069	2.73	42273	4.13
	<b>Total</b>	<b>10986032</b>	<b>100.00</b>	<b>1024345</b>	<b>100.00</b>

Net Value added is a measure of the relative importance of the industrial sector in the State economy as well as 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 Domestic Product.

The contribution of Major Industry Group 10- Manufacture of food products worth of Rs.1692.86 Crore , which accounted 16.53 % of the net value added is the maximum. Major Industry Groups, Industry group 20- Manufacture of Chemicals and chemical products with 15.80 percent, Industry Group 22- Mfg. of Rubber and Plastic Products with 11.73 percent, Industry Group 13- Mfg. of Textiles with 9.79 came next in that order. These four major Industry Groups together contributes 53.85 percent of the total NVA in the industry sector.

***DISTRICT LEVEL***

***ESTIMATES***

***(Central & State Sample Pooled)***

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## **District Level Analysis**

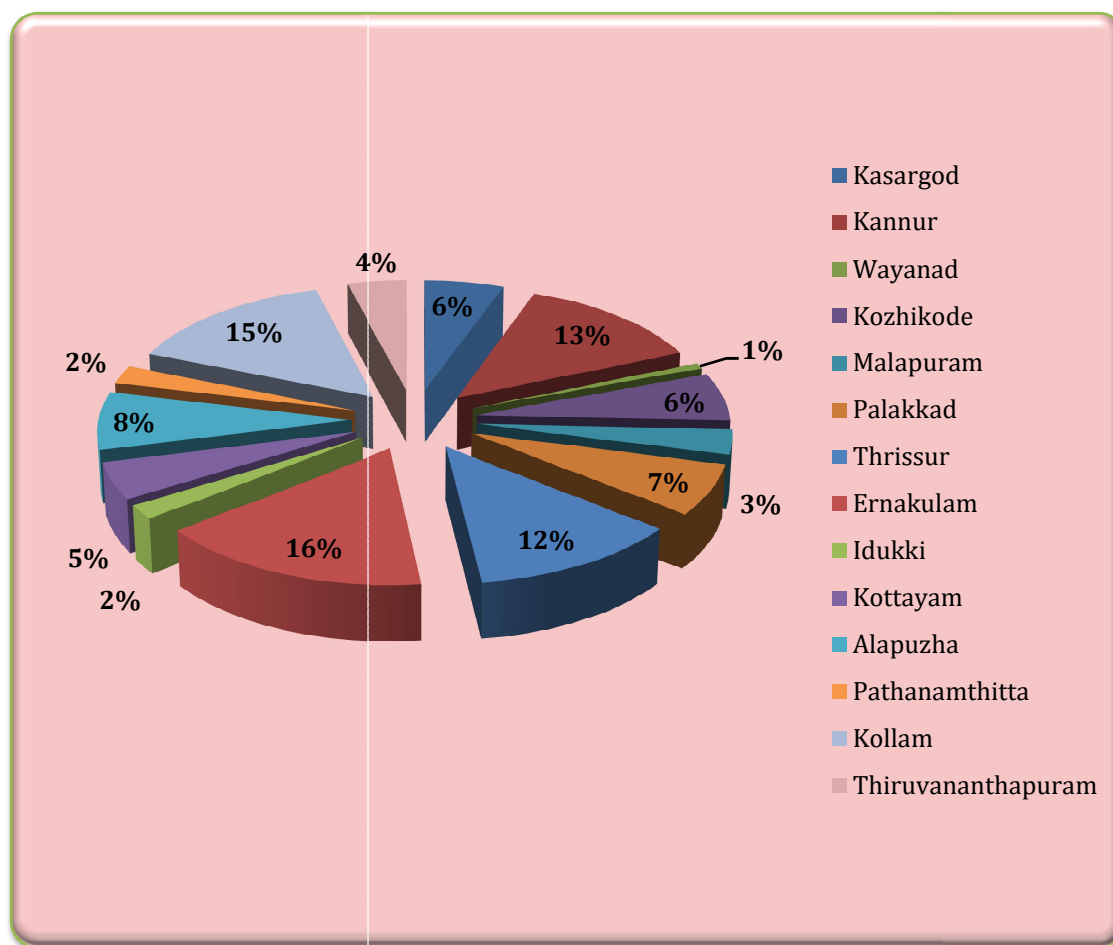
District-wise comparison of some important economic aggregates of principal characteristics in terms of values and their percentage share towards the State total for 14 districts of the State are presented in the following Statements.

### **3.8 Distribution of Factories :**

The percentage distribution of No. of Factories is presented in the Statement 3.8.

<b>Statement 3.8 – District wise Distribution of No. of Factories</b>			
<b>Sl No.</b>	<b>Districts</b>	<b>No. of Factories</b>	<b>Percentage</b>
1	<b><i>Kasargod</i></b>	389	5.54
2	<b><i>Kannur</i></b>	921	13.12
3	<b><i>Wayanad</i></b>	53	0.75
4	<b><i>Kozhikode</i></b>	442	6.30
5	<b><i>Malappuram</i></b>	229	3.26
6	<b><i>Palakkad</i></b>	470	6.69
7	<b><i>Thrissur</i></b>	872	12.42
8	<b><i>Ernakulam</i></b>	1138	16.21
9	<b><i>Idukki</i></b>	137	1.95
10	<b><i>Kottayam</i></b>	342	4.87
11	<b><i>Alappuzha</i></b>	534	7.60
12	<b><i>Pathanamthitta</i></b>	168	2.39
13	<b><i>Kollam</i></b>	1034	14.73
14	<b><i>Trivandrum</i></b>	293	4.17
	<b><i>Total</i></b>	<b>7021</b>	100.00

### No.of factories –District wise



Among the 14 districts in the State, Ernakulam district has contributed 16.21% (1138 units) , to the total factories ( 7,021 units). Kollam district has contributed 14.73% to the total factories followed by the districts Kannur (13.12%), Thrissur (12.42%).The percentage share of other districts is at single digit level. These four districts together contributed 56.48% of total factories in Kerala.

### **3.9 Capital Structure**

In the case of capital structure, Ernakulam district has the maximum share 51.34%,52.01%,52.14% of Total Fixed capital, Total Invested Capital, Total Productive Capital respectively.

<b>Statement 3.9 Distribution of Capital- Fixed, Invested and Productive - District wise</b>							
<b>Sl No .</b>	<b>DISTRICTS</b>	<b>Fixed Capital</b>	<b>%</b>	<b>Invested Capital</b>	<b>%</b>	<b>Productive Capital</b>	<b>%</b>
1	<b>Kasargod</b>	8122	0.52	13649	0.46	4057	0.17
2	<b>Kannur</b>	31498	2.02	56573	1.91	38151	1.60
3	<b>Wayanad</b>	42608	2.73	44493	1.51	44041	1.85
4	<b>Kozhikode</b>	59474	3.81	87506	2.96	65430	2.74
5	<b>Malappuram</b>	19053	1.22	40391	1.37	28676	1.20
6	<b>Palakkad</b>	129546	8.30	255818	8.66	205281	8.61
7	<b>Thrissur</b>	60977	3.91	107781	3.65	105325	4.42
8	<b>Ernakulam</b>	800970	51.34	1536999	52.01	1243648	52.14
9	<b>Idukki</b>	23805	1.53	52661	1.78	46869	1.97
10	<b>Kottayam</b>	76000	4.87	199686	6.76	157861	6.62
11	<b>Alappuzha</b>	87091	5.58	147410	4.99	126309	5.30
12	<b>Pathanamthitta</b>	39093	2.51	64420	2.18	65031	2.73
13	<b>Kollam</b>	85125	5.46	174329	5.90	132537	5.56
14	<b>Trivandrum</b>	96634	6.19	173328	5.87	121897	5.11
	<b>TOTAL</b>	<b>1559998</b>	<b>100.00</b>	<b>2955044</b>	<b>100.00</b>	<b>2385113</b>	<b>100.00</b>

**(Values In Rs Lakhs)**

### **3.10 Employment**

While comparing the district wise number of employees engaged under different industrial sectors of the state, it has been observed that Kollam district has the maximum number of employees ,ie, 95,104 in number engaged in different industrial sectors. This district contributes 26.18% to the total employees. The next place occupied ,in case of employees engaged, is Ernakulam district with share of percentage 16.31% (59,259) followed by the districts Thiruvananthapuram(11.44%), Alappuzha(10.19%).

In case of total workers, the Kollam district has the maximum no. of workers, ie, 90,565(29.18%) working under different industrial sectors. Other major districts are Ernakulam (13.63%), Thiruvananthapuram(12.08%) ,Alappuzha(10.29%) respectively.

Statement 3.10 is given below:

**Statement 3.10-Distribution of Employment- District wise**

Sl No.	DISTRICT	Employees (No.)	%	Workers(No.)	%
1	<b>Kasargod</b>	18625	5.13	17963	5.79
2	<b>Kannur</b>	24138	6.65	21670	6.98
3	<b>Wayanad</b>	3407	0.94	3111	1.00
4	<b>Kozhikode</b>	10277	2.83	7850	2.53
5	<b>Malappuram</b>	4624	1.27	3956	1.27
6	<b>Palakkad</b>	18308	5.04	13520	4.36
7	<b>Thrissur</b>	19109	5.26	15080	4.86
8	<b>Ernakulam</b>	59259	16.31	42314	13.63
9	<b>Idukki</b>	5435	1.50	3674	1.18
10	<b>Kottayam</b>	12633	3.48	8116	2.61
11	<b>Alappuzha</b>	36997	10.19	31951	10.29
12	<b>Pathanamthitta</b>	13781	3.79	13120	4.23
13	<b>Kollam</b>	95104	26.18	90565	29.18
14	<b>Trivandrum</b>	41550	11.44	37511	12.08
	<b>TOTAL</b>	<b>363246</b>	<b>100.00</b>	<b>310398</b>	<b>100.00</b>

**3.11 Emoluments & Wages***(Values In Rs Lakhs)***Statement 3.11-Distribution of Emoluments- District wise**

Sl No.	DISTRICT	Emoluments	%	Wages	%
1	<b>Kasargod</b>	23476	4.17	4705	2.00
2	<b>Kannur</b>	20517	3.65	11898	5.07
3	<b>Wayanad</b>	4145	0.74	2807	1.20
4	<b>Kozhikode</b>	19624	3.49	8171	3.48
5	<b>Malappuram</b>	6245	1.11	3800	1.62
6	<b>Palakkad</b>	33354	5.93	14784	6.30
7	<b>Thrissur</b>	30806	5.48	16360	6.97
8	<b>Ernakulam</b>	209538	37.25	66003	28.11
9	<b>Idukki</b>	25220	4.48	2906	1.24
10	<b>Kottayam</b>	36069	6.41	13962	5.95
11	<b>Alappuzha</b>	31895	5.67	16643	7.09
12	<b>Pathanamthitta</b>	13683	2.43	8327	3.55
13	<b>Kollam</b>	57364	10.20	37159	15.83
14	<b>Trivandrum</b>	50568	8.99	27246	11.61
	<b>TOTAL</b>	<b>562506</b>	<b>100.00</b>	<b>234770</b>	<b>100.00</b>

### 3.12 Input, Output and Net Value Added - District wise

Statement 3.12 Distribution of Input, Output, Net Value Added - District wise							
Sl No.	Districts	Input	%	Output	%	NVA	%
1	<b>Kasargod</b>	37759	0.39	45818	0.42	7379	0.72
2	<b>Kannur</b>	95302	0.97	132820	1.21	34225	3.34
3	<b>Wayanad</b>	32790	0.33	44521	0.41	11051	1.08
4	<b>Kozhikode</b>	157525	1.61	192566	1.75	30326	2.96
5	<b>Malappuram</b>	114473	1.17	151939	1.38	35538	3.47
6	<b>Palakkad</b>	615315	6.28	673193	6.13	45790	4.47
7	<b>Thrissur</b>	421518	4.30	512190	4.66	84783	8.28
8	<b>Ernakulam</b>	6316295	64.43	6843158	62.29	438691	42.83
9	<b>Idukki</b>	117410	1.20	147011	1.34	26996	2.64
10	<b>Kottayam</b>	623900	6.36	708451	6.45	75085	7.33
11	<b>Alappuzha</b>	441808	4.51	501179	4.56	49995	4.88
12	<b>Pathanamthitta</b>	122765	1.25	141648	1.29	14069	1.37
13	<b>Kollam</b>	453269	4.62	551151	5.02	92086	8.99
14	<b>Trivandrum</b>	253709	2.59	340388	3.10	78331	7.65
	<b>Total</b>	<b>9803836</b>	<b>100.00</b>	<b>10986032</b>	<b>100.00</b>	<b>1024346</b>	<b>100.00</b>

(Values In Rs Lakhs)

Regarding Input consumed by the districts, it can be observed that Ernakulam district has consumed 64.43% of the Total Input of the State. Ernakulam district alone has 64.43% to the total Input. Kottayam District comes in the next position with its share 6.36 %. The least share is of the district Wayanad with share of 0.33% .

Considering the case of Output, Ernakulam district has the highest share of contribution (62.29%) to the total Output of the State followed by Kottayam (6.45%), Palakkad (6.13%), Kollam (5.02%) respectively .These four districts together contributed 79.89% to the total Output. The least contribution is reported from the district Wayanad with share of 0.41% to the total output .

In case of Net Value Added, among all the districts Ernakulam district has contributed 42.83% to the total Net value Added of the State followed by the districts Kollam ( 8.99%),Thrissur(8.28%),Trivandrum (5.36%).

# APPENDIX I

## DETAILED TABLES



**APPENDIX I**  
**DETAILED TABLES**

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<b>Table 1.1: Estimates of selected characteristics of Kerala for the year 2011-12</b>	
<b>All Industries</b>	
<b>Characteristics</b>	<b>(Value in Rs Lakh unless otherwise mentioned)</b>
1. Number of Factories (no.)	7,021
2. Factories in Operation (no.)	5,745
3. Fixed Capital	1,559,998
4. Physical Working Capital	1,395,046
5. Working Capital	825,116
6. Invested Capital	2,955,044
7. Gross Value of Addition to Fixed Capital	242,478
8. Rent Paid for Fixed Assets	14,968
9. Outstanding Loan	621,574
10. Interest Paid	112,809
11. Rent Received for Fixed Assets	2,374
12. Interest Received	21,013
13. Gross Value of Plant & Machinery	1,495,082
14. Value of Product and By-Product	9,567,748
15. Total Output	10,986,032
16. Fuels Consumed	500,169
17. Materials Consumed	8,065,205
18. Total Inputs	9,803,836
19. Gross Value Added	1,182,196
20. Depreciation	157,850
21. Net Value Added	1,024,346
22. Net Fixed Capital Formation	55,991
23. Gross Fixed Capital Formation	214,086
24. Addition in stock of	184,955
(a) Materials, Fuels etc.	131,256
(b) Semi Finished Goods	-37,479
(c) Finished Goods	91,177
25. Gross Capital Formation	399,040
26. Income	919,956
27. Profit	313,490

**Table 1.2- District wise distribution of Capitals employed, Input, Output and GVA at Industry**

<b>Characteristics</b>	<b>All</b>	<b>Kasargod</b>	<b>Kannur</b>	<b>Wayanad</b>	<b>Kozhikode</b>	<b>Malapuram</b>	<b>Palakkad</b>	<b>Thrissur</b>
1. Number of Factories (no.)	7,021	389	757	53	359	229	470	767
2. Factories in Operation (no.)	5,745	279	442	51	231	211	383	568
3. Fixed Capital	1,559,998	8122	31498	42608	59474	19053	129546	60977
4. Physical Working Capital	1,395,046	5527	25075	1884	28032	21338	126272	46804
5. Working Capital	825,116	-4064	6653	1432	5956	9623	75735	44348
6. Invested Capital	2,955,044	13649	56573	44493	87506	40391	255818	107781
7. Gross Value of Addition to Fixed Capital	242,478	1125	4812	1371	35344	6190	21476	12766
8. Rent Paid for Fixed Assets	14,968	119	198	11	676	95	723	398
9. Outstanding Loan	621,574	11164	67445	323	22765	8103	96097	42364
10. Interest Paid	112,809	1252	3069	53	2526	1163	17211	4205
11. Rent Received for Fixed Assets	2,374	45	38	3	9	320	55	39
12. Interest Received	21,013	69	329	154	207	260	2016	859
13. Gross Value of Plant & Machinery	1,495,082	8184	35686	7330	39797	11536	124990	62690
14. Value of Product and By-Product	9,567,748	30278	124521	42266	130428	101027	600699	475402
15. Total Output	10,986,032	45818	132820	44521	192566	151939	673193	512190
16. Fuels Consumed	500,169	304	5315	1649	12373	3083	35570	14517
17. Materials Consumed	8,065,205	32674	76830	26342	112673	79635	451885	346826
18. Total Inputs	9,803,836	37759	95302	32790	157525	114473	615315	421518
19. Gross Value Added	1,182,196	8060	37518	11732	35042	37465	57878	90672
20. Depreciation	157,850	681	3293	681	4715	1927	12088	5889
21. Net Value Added	1,024,346	7379	34225	11051	30326	35538	45790	84783
22. Net Fixed Capital Formation	55,991	108	1349	912	29941	4123	7749	5454
23. Gross Fixed Capital Formation	214,086	1033	4643	1593	34656	6050	19837	11342
24. Addition in stock of	184,955	1013	-2806	222	5241	4841	7720	5625
(a) Materials, Fuels etc.	131,256	567	-2991	179	4402	2444	4565	3111
(b) Semi Finished Goods	-37,479	16	-408	26	-111	-64	1355	-168
(c) Finished Goods	91,177	429	593	17	950	2461	1799	2681
25. Gross Capital Formation	399,040	2047	1837	1815	39897	10891	27556	16967
26. Income	919,956	6122	31326	11144	27340	34860	29928	81079
27. Profit	313,490	-783	9971	3911	5834	23460	6478	50273

<b>Table 1.2- District wise distribution of Capitals employed, Input, Output and GVA at Industry</b>							
<b>Characteristics</b>	<b>Ernakulam</b>	<b>Idukki</b>	<b>Kottayam</b>	<b>Alapuzha</b>	<b>Pathanamthitta</b>	<b>Kollam</b>	<b>Thiruvananthapuram</b>
1. Number of Factories (no.)	876	137	274	534	168	910	298
2. Factories in Operation (no.)	684	94	217	430	145	659	256
3. Fixed Capital	800970	23805	76000	87091	39093	85125	96634
4. Physical Working Capital	736029	28856	123686	60318	25327	89204	76694
5. Working Capital	442678	23064	81861	39218	25937	47413	25262
6. Invested Capital	1536999	52661	199686	147410	64420	174329	173328
7. Gross Value of Addition to Fixed Capital	86309	3277	19937	15120	8873	12983	12895
8. Rent Paid for Fixed Assets	6918	1592	1163	891	579	368	1238
9. Outstanding Loan	215721	9665	16682	33559	10622	38761	48304
10. Interest Paid	41972	5363	5542	11004	2554	11292	5603
11. Rent Received for Fixed Assets	1348	36	149	65	56	61	149
12. Interest Received	11954	88	559	1407	125	2684	301
13. Gross Value of Plant & Machinery	914052	14257	109829	42905	21286	34891	67648
14. Value of Product and By-Product	6188286	110048	429762	431929	120368	488372	294364
15. Total Output	6843158	147011	708451	501179	141648	551151	340388
16. Fuels Consumed	339615	17087	22674	8197	2405	20945	16434
17. Materials Consumed	5416556	78171	461318	378219	81642	353101	169334
18. Total Inputs	6316295	117410	623900	441808	122765	453269	253709
19. Gross Value Added	526863	29601	84551	59372	18883	97881	86679
20. Depreciation	88172	2605	9466	9377	4814	5795	8348
21. Net Value Added	438691	26996	75085	49995	14069	92086	78331
22. Net Fixed Capital Formation	-26282	1474	10023	816	11333	3892	5098
23. Gross Fixed Capital Formation	61890	4079	19489	10193	16147	9687	13446
24. Addition in stock of	106725	-7944	17855	5206	9214	22897	9145
(a) Materials, Fuels etc.	71407	270	15251	1509	4244	6828	19469
(b) Semi Finished Goods	-19170	-4438	720	404	354	1050	-17044
(c) Finished Goods	54488	-3776	1884	3294	4616	15019	6720
25. Gross Capital Formation	168616	-3865	37344	15399	25362	32585	22590
26. Income	403103	20166	69087	39572	11117	83172	71940
27. Profit	<b>134015</b>	<b>12383</b>	<b>21087</b>	<b>5787</b>	<b>205</b>	<b>25808</b>	<b>15061</b>

<b>Table 2.1-Estimate of (i) employment, (ii) mandays employed and (iii) emoluments paid in the factory sector by their type for ASI 2011-12</b>		
<b>All Industries</b>		
<b>Characteristics</b>		
<b>A.</b>	<b>No. of Persons Engaged (no.):</b>	<b>363,246</b>
1	Workers	310,398
1.1	Directly Employed	283,836
	Men	95,903
	Women	187,934
1.2	Employed through contractors	26,562
2	Employees other than workers	51,440
2.1	Supervisory and Managerial	23,750
2.2	Other Employees	27,690
3	Unpaid family members/proprietor etc	1,407
<b>B.</b>	<b>Total Mandays Employed (in '000)</b>	<b>102,589</b>
<b>C.</b>	<b>Wages and Salaries including Employers' Contribution (Rs lakhs):</b>	<b>562,506</b>
1	Wages and Salary including Bonus	406,203
1.1	Wages and Salary	378,489
	1.1.1 Workers	234,770
	1.1.2 Supervisory & Managerial	93,485
	1.1.3 Other Employees	50,233
1.2	Bonus to all Staff	27,714
2	Employers' Contribution	156,303

<b>Table 2.2-Estimate of (i) employment, (ii) mandays employed and (iii) emoluments paid in the factory sector by their type- Districtwise</b>									
<b>Characteristics</b>		<b>Districts</b>							
		<b>Total</b>	<b>Kasargod</b>	<b>Kannur</b>	<b>Wayanad</b>	<b>Kozhikode</b>	<b>Malapuram</b>	<b>Palakkad</b>	<b>Thrissur</b>
<b>A.</b>	<b>No. of Persons Engaged (no.):</b>	<b>363246</b>	13473	25744	1668	13637	5430	16965	21615
1	Workers	<b>310398</b>	12780	22878	1255	11189	4677	13042	16524
1.1	Directly Employed	<b>283836</b>	8656	21493	829	9647	4554	7349	14801
	Men	<b>95903</b>	683	7284	677	7396	3670	5516	9326
	Women	<b>187934</b>	7973	14209	152	2251	884	1833	5476
1.2	Employed through contractors	<b>26562</b>	4124	1385	426	1542	123	5694	1723
2	Employees other than workers	<b>51440</b>	607	2831	410	2438	747	3844	5058
2.1	Supervisory and Managerial	<b>23750</b>	235	2051	168	921	436	1813	3384
2.2	Other Employees	<b>27690</b>	372	781	242	1517	311	2031	1674
3	Unpaid family members/proprietor etc	<b>1407</b>	86	34	3	10	7	79	33
<b>B.</b>	<b>Total Mandays Employed (in '000)</b>	<b>102589</b>	3762	7526	500	4095	1733	4930	6529
<b>C.</b>	<b>Wages and Salaries including Employers' Contribution (Rs lakhs):</b>	<b>562506</b>	7891	26036	2452	29813	10611	31681	40834
1	Wages and Salary including Bonus	<b>406203</b>	7142	22658	2136	25439	8670	26721	33593
1.1	Wages and Salary	<b>378489</b>	6690	20981	2086	23901	8114	25318	31656
	1.1.1 Workers	<b>234770</b>	5725	16550	1445	14847	5825	14514	20351
	1.1.2 Supervisory & Managerial	<b>93485</b>	320	3446	352	5454	1365	7928	8301
	1.1.3 Other Employees	<b>50233</b>	645	985	289	3600	925	2876	3003
1.2	Bonus to all Staff	<b>27714</b>	452	1678	50	1538	556	1403	1937
2	Employers' Contribution	<b>156303</b>	749	3378	316	4374	1941	4960	7241

**Table 2.2-Estimate of (i) employment, (ii) mandays employed and (iii) emoluments paid in the factory sector by their type for Districts**

<i>Characteristics</i>		<i>Districts</i>						
		Ernakulam	Idukki	Kottayam	Alapuzha	Pathanamthitta	Kollam	Thiruvananthapuram
<b>A.</b>	<b>No. of Persons Engaged (no.):</b>	63959	7706	14709	25850	7996	117335	21846
1	Workers	46559	5963	10561	21303	6437	111917	17887
1.1	Directly Employed	35812	5090	8938	20673	6239	111462	14895
	Men	27277	3305	6936	10996	2436	9136	7283
	Women	8535	1785	2002	9678	3804	102326	7612
1.2	Employed through contractors	10746	873	1624	630	198	455	2992
2	Employees other than workers	17339	1733	4122	4507	1535	5129	3875
2.1	Supervisory and Managerial	9209	730	2218	2278	655	2331	1953
2.2	Other Employees	8130	1003	1905	2229	880	2797	1922
3	Unpaid family members/proprietor etc	61	10	26	40	24	290	84
<b>B.</b>	<b>Total Mandays Employed (in '000)</b>	19682	2362	4665	8345	2372	29248	6497
<b>C.</b>	<b>Wages and Salaries including Employers' Contribution (Rs lakhs):</b>	241831	14783	45158	36177	16207	82976	41057
1	Wages and Salary including Bonus	202378	11656	39328	31027	15037	70913	33950
1.1	Wages and Salary	195577	10191	38059	28066	14181	61053	32325
	1.1.1 Workers	115725	5845	17716	17874	7806	53408	19773
	1.1.2 Supervisory & Managerial	52347	2886	10715	7022	5053	4723	8548
	1.1.3 Other Employees	27505	1460	9629	3169	1322	2922	4004
1.2	Bonus to all Staff	6801	1466	1269	2961	856	9860	1625
2	Employers' Contribution	39454	3126	5830	5150	1170	12063	7107

**Table 3.1 Fuels consumed at Industry District wise Summary Results**

Districts	Quantity of Coal(Th.Tonne)	Value of coal	Quantity of Electricity(Th.Kwh)	Value of Electricity	Value of petroleum products	Other Fuels
KASARGOD	0	0	2386.339	23802.42	1904.73725	4655.115
KANNUR	0	0	37645.19	437296.1	67011.5735	27191.81
WAYANAD	0	2568.02	7293.66	115663.7	22441.681	24233.64
KOZHIKODE	0	0	75329.83	373474.6	811993.8004	51843.02
MALAPPURAM	0	0	25287.52	116579.6	180061.214	11685.74
PALAKKAD	80.968	464064.8	359094.8	2604952	371413.837	116615.5
THRISSUR	32.966	193646.1	169159.1	839541	317466.5726	101089.4
ERNAKULAM	0	11625.94	850783.6	4791414	28663756.74	498067.8
IDUKKI	0	0	31273	1664165	179522.8605	117160.7
KOTTAYAM	137.123	553438.9	215272.3	1013773	669195.0132	30986.36
ALAPPUZHA	0.101	1160.811	44031.91	298378.6	170541.5475	49571.78
PATHANAMTHITTA	0	0	7665.958	217123.7	17179.405	6183.103
KOLLAM	0.01	322304.7	61655.56	506705.1	979183.5673	286315.4
THIRUVANANTHAPURAM	0	0	76170.1	442334.9	812301.055	388786.1
Total	251.168	1548809	1963049	13445203.55	33263973.61	1714385

<b>Table 4.1 : Estimate of some important characteristics of State by 2 digit of NIC'08 for the year 2011-12</b>										
	<b>2-digit industry class :NIC-2008 (Values in Rs Lakh unless otherwise mentioned)</b>									
<b>Characteristics</b>	<b>All</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
1. Number of Factories (no.)	<b>7,021</b>	1387	51	776	405	57	140	752	117	120
2. Factories in Operation (no.)	<b>5,745</b>	1284	45	615	357	42	122	652	107	107
3. Fixed Capital	<b>1,559,998</b>	219260	24332	1892	95697	24309	6501	21548	30342	47484
4. Physical Working Capital	<b>1,395,046</b>	218777	16291	2284	66969	10451	10060	20771	12416	14508
5. Working Capital	<b>825,116</b>	161778	42570	3089	14544	3017	2112	14529	14018	14445
6. Invested Capital	<b>2,955,044</b>	438037	40623	4176	162665	34760	16562	42319	42758	61992
7. Gross Value of Addition to Fixed Capital	<b>242,478</b>	35611	5196	292	13005	1795	1529	2708	5215	14536
8. Rent Paid for Fixed Assets	<b>14,968</b>	2611	300	14	952	236	110	234	100	986
9. Outstanding Loan	<b>621,574</b>	149049	17191	4	77519	2551	4865	15872	13099	10057
10. Interest Paid	<b>112,809</b>	30724	3233	95	12376	2093	573	2199	1469	2445
11. Rent Received for Fixed Assets	<b>2,374</b>	475	25	0	190	12	1	14	107	25
12. Interest Received	<b>21,013</b>	1857	781	1	1317	41	48	58	242	231
13. Gross Value of Plant & Machinery	<b>1,495,082</b>	101526	24425	1	76609	13310	4606	27225	49116	48965
14. Value of Product and By-Product	<b>9,567,748</b>	1392875	128663	14250	220567	44737	40723	70065	72906	57768
15. Total Output	<b>10,986,032</b>	1853305	132755	21433	351863	47396	42852	73369	76086	126525
16. Fuels Consumed	<b>500,169</b>	37105	3279	72	11387	2379	633	4179	13567	1601
17. Materials Consumed	<b>8,065,205</b>	1318704	93460	9448	182771	26626	27370	44812	42729	55724
18. Total Inputs	<b>9,803,836</b>	1663683	113980	15090	241164	32933	36256	58538	61089	86866
19. Gross Value Added	<b>1,182,196</b>	189622	18776	6344	110699	14463	6596	14831	14998	39659
20. Depreciation	<b>157,850</b>	20336	2462	432	10443	1450	892	3562	2247	5157
21. Net Value Added	<b>1,024,346</b>	169286	16314	5912	100255	13013	5704	11269	12751	34502
22. Net Fixed Capital Formation	<b>55,991</b>	18788	2616	-141	1152	792	371	-2215	2739	9300
23. Gross Fixed Capital Formation	<b>214,086</b>	39124	5077	291	11596	2241	1263	1347	4986	14457
24. Addition in stock of	<b>184,955</b>	23184	3159	346	1336	-285	2822	1786	930	2269
(a) Materials, Fuels etc.	<b>131,256</b>	5726	3185	378	-3657	-338	1412	360	626	1865
(b) Semi Finished Goods	<b>-37,479</b>	-2892	173	0	1019	-60	140	387	103	66
(c) Finished Goods	<b>91,177</b>	20349	-200	-32	3973	112	1269	1040	202	338
25. Gross Capital Formation	<b>399,040</b>	62308	8236	637	12931	1956	4084	3133	5917	16726
26. Income	<b>919,956</b>	138283	13587	5803	88434	10736	5069	8908	11531	31329
27. Profit	<b>313,490</b>	<b>37957</b>	<b>6305</b>	<b>-17486</b>	<b>53855</b>	<b>2218</b>	<b>2020</b>	<b>2206</b>	<b>1126</b>	<b>11126</b>



<b>Table 4.1 : Estimate of some important characteristics of State by 2 digit of NIC'08 for the year 2011-12</b>										
	<b>2-digit industry class :NIC-2008</b> <i>(Values in Rs Lakh unless otherwise mentioned)</i>									
<b>Characteristics</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>
1. Number of Factories (no.)	22	145	131	578	1058	128	186	167	62	70
2. Factories in Operation (no.)	20	119	120	421	861	102	139	162	54	60
3. Fixed Capital	499706	131299	27436	82462	81376	42483	19214	43309	8568	6768
4. Physical Working Capital	407088	119712	23324	108050	31498	90443	28156	42456	14591	9623
5. Working Capital	-11158	239869	10822	57020	15170	16225	26857	38145	17170	13211
6. Invested Capital	906794	251011	50760	190512	112875	132926	47369	85765	23159	16391
7. Gross Value of Addition to Fixed Capital	46193	14327	4013	16066	18712	5743	2590	5802	1887	1727
8. Rent Paid for Fixed Assets	695	704	412	554	855	70	2641	600	164	135
9. Outstanding Loan	1009	95673	28490	35997	31325	37231	6172	43390	3406	1316
10. Interest Paid	555	15794	3469	9135	3815	9810	953	4928	1321	348
11. Rent Received for Fixed Assets	0	451	48	331	208	22	0	164	5	6
12. Interest Received	920	4828	242	714	1198	1185	114	478	368	384
13. Gross Value of Plant & Machinery	441907	210149	11508	116349	65764	57588	25662	58962	12613	6883
14. Value of Product and By-Product	4583638	654852	90768	1066048	239031	353984	90824	154842	47083	36381
15. Total Output	4724377	663231	96652	1128470	242036	360396	209179	213092	55374	38710
16. Fuels Consumed	270489	47216	3401	27591	27080	31332	3711	2434	856	400
17. Materials Consumed	4217771	398009	45859	889644	71733	290332	49423	105915	30362	25299
18. Total Inputs	4619199	487970	67125	995713	136012	343687	195312	162836	38966	28960
19. Gross Value Added	105178	175261	29527	132757	106024	16709	13867	50256	16409	9750
20. Depreciation	47344	13425	2490	12561	7910	3499	2622	5795	855	698
21. Net Value Added	57834	161836	27037	120196	98114	13210	11245	44461	15554	9052
22. Net Fixed Capital Formation	-16523	-2547	1342	2168	9187	1576	-171	-4934	948	690
23. Gross Fixed Capital Formation	30821	10877	3832	14729	17097	5075	2451	862	1802	1388
24. Addition in stock of	37981	40750	1528	22820	4468	9062	16357	3313	467	1205
(a) Materials, Fuels etc.	37296	11608	1013	17398	2210	5912	12979	665	486	364
(b) Semi Finished Goods	-20647	1331	-330	1014	750	325	2078	1056	-1009	327
(c) Finished Goods	21332	27811	845	4408	1509	2825	1300	1592	990	514
25. Gross Capital Formation	68802	51627	5360	37549	21565	14136	18808	4175	2270	2592
26. Income	57505	150617	23445	111553	94851	4536	7765	39575	14441	8959
27. Profit	<b>12135</b>	<b>90459</b>	<b>6500</b>	<b>55372</b>	<b>59206</b>	<b>-3827</b>	<b>-52729</b>	<b>13089</b>	<b>3762</b>	<b>1683</b>

<b>Table 4.1 : Estimate of some important characteristics of State by 2 digit of NIC'08 for the year 2011-12</b>							
<b>2-digit industry class :NIC-2008 (Values in Rs Lakh unless otherwise mentioned)</b>							
<b>Characteristics</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>58</b>	<b>Others</b>
1. Number of Factories (no.)	17	20	93	30	87	18	406
2. Factories in Operation (no.)	13	18	61	25	61	18	315
3. Fixed Capital	636	28249	9840	2969	6456	42550	55311
4. Physical Working Capital	3272	40336	3230	4421	3059	2883	90376
5. Working Capital	3087	76027	-184	4133	5897	-3254	45975
6. Invested Capital	3908	68585	13070	7391	9515	45434	145688
7. Gross Value of Addition to Fixed Capital	119	4136	184	509	1617	31183	7784
8. Rent Paid for Fixed Assets	0	131	18	49	99	367	1931
9. Outstanding Loan	16	1562	2024	3014	4547	12955	17240
10. Interest Paid	31	1469	238	221	160	1127	4227
11. Rent Received for Fixed Assets	0	86	0	1	32	6	164
12. Interest Received	0	5146	11	197	16	133	507
13. Gross Value of Plant & Machinery	28	24082	8464	564	3706	28627	76443
14. Value of Product and By-Product	4254	127099	8005	13089	13950	36637	4711
15. Total Output	4722	143517	9598	15514	17030	38480	300069
16. Fuels Consumed	23	1997	325	159	285	634	8033
17. Materials Consumed	2093	80532	5130	8974	8324	16819	17342
18. Total Inputs	2319	110049	7069	12362	12887	24193	249580
19. Gross Value Added	2403	33468	2529	3152	4143	14287	50489
20. Depreciation	105	1544	389	343	752	2322	8216
21. Net Value Added	2298	31924	2140	2809	3391	11965	42273
22. Net Fixed Capital Formation	0	2622	-206	162	860	28860	-1200
23. Gross Fixed Capital Formation	105	4166	183	505	1613	31182	7016
24. Addition in stock of	634	20042	-491	1122	235	356	-10441
(a) Materials,Fuels etc.	166	22982	-591	380	632	268	7931
(b) Semi Finished Goods	470	-2638	133	-119	-650	68	-18575
(c) Finished Goods	-2	-302	-33	861	253	19	204
25. Gross Capital Formation	738	24208	-308	1628	1848	31538	-3424
26. Income	2267	35556	1895	2737	3179	10610	36786
27. Profit	1265	14560	179	1572	-274	3086	8123

**Table 4.2 Employment and Emoluments at Industry (NIC-2 digit) State**

		<i>All</i>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>
<b>A.</b>	<b>No. of Persons Engaged (no.):</b>	<b>363246</b>	176767	4803	21491	25233	8325	2878	6095	4508	5136
1	Workers	<b>310398</b>	164693	4056	20921	20043	7473	2520	4785	3448	3084
1.1	Directly Employed	<b>283836</b>	161661	2384	13640	18370	7473	2517	4626	2283	3058
	Men	<b>95903</b>	16085	1642	1840	11254	2029	1703	3185	1717	2768
	Women	<b>187934</b>	145576	741	11800	7115	5445	814	1441	566	290
1.2	Employed through contractors	<b>26562</b>	3032	1672	7281	1673	0	3	159	1165	26
2	Employees other than workers	<b>51440</b>	11613	741	445	4560	850	356	1263	1056	2047
2.1	Supervisory and Managerial	<b>23750</b>	5047	381	128	1786	487	197	633	606	752
2.2	Other Employees	<b>27690</b>	6566	361	317	2774	363	159	630	450	1295
3	Unpaid family members/proprietor etc	<b>1407</b>	461	6	125	631	2	2	47	4	5
<b>B.</b>	<b>Total Mandays Employed (in '000)</b>	<b>102589</b>	46321	1442	5874	7426	2493	960	1683	1516	1694
<b>C.</b>	<b>Wages and Salaries including Employers' Contribution (Rs lakhs)</b>	<b>562506</b>	126938	7281	23289	31690	8518	3049	5864	10405	19342
1	Wages and Salary including Bonus	<b>406203</b>	93895	6071	5990	25018	7188	2603	4900	9080	16211
1.1	Wages and Salary	<b>378489</b>	82471	5819	5292	22654	5691	2449	4647	8960	15578
	1.1.1 Workers	<b>234770</b>	64666	4067	4965	16146	4216	1754	3024	5304	5819
	1.1.2 Supervisory & Managerial	<b>93485</b>	11010	1277	186	3936	995	452	991	2625	3982
	1.1.3 Other Employees	<b>50233</b>	6795	474	141	2572	480	243	632	1031	5777
1.2	Bonus to all Staff	<b>27714</b>	11424	252	698	2363	1497	154	254	120	634
2	Employers' Contribution	<b>156303</b>	33043	1210	17299	6672	1330	446	964	1325	3131

**Table 4.2 Employment and Emoluments at Industry (NIC-2 digit)**

		19	20	21	22	23	24	25	26	27	28
<b>A.</b>	<b>No. of Persons Engaged (no.):</b>	4313	10949	7949	16781	13736	5405	7871	8000	4318	4786
1	Workers	3440	7536	4758	12480	10712	4400	6033	5801	3360	4045
1.1	Directly Employed	1527	6512	4536	10954	9274	2710	5987	5096	3211	3743
	Men	1430	6041	2409	9167	7341	1828	4790	2370	2504	3711
	Women	98	471	2127	1786	1933	883	1197	2726	707	32
1.2	Employed through contractors	1913	1025	222	1527	1438	1690	46	705	149	302
2	Employees other than workers	873	3411	3182	4287	2957	1003	1832	2198	958	740
2.1	Supervisory and Managerial	550	1837	1137	1980	1541	461	903	1518	589	444
2.2	Other Employees	323	1575	2045	2306	1416	542	929	680	369	296
3	Unpaid family members/proprietor etc	0	1	9	14	68	2	5	1	1	1
<b>B.</b>	<b>Total Mandays Employed (in '000)</b>	1525	3776	2428	5376	4002	1659	2115	2338	1308	1444
<b>C.</b>	<b>Wages and Salaries including Employers' Contribution (Rs lakhs):</b>	33370	58289	13444	42176	26298	8060	40569	26485	10679	7276
1	Wages and Salary including Bonus	23252	45633	11533	34779	22482	7117	9012	21003	8098	5622
1.1	Wages and Salary	22971	44510	10892	32636	21076	7001	8754	19854	7719	5196
	1.1.1 Workers	9901	23168	5614	21088	14453	4273	5896	9677	4900	3505
	1.1.2 Supervisory & Managerial	10833	15397	2491	7098	5064	2098	2335	7738	2347	1027
	1.1.3 Other Employees	2237	5946	2787	4450	1559	630	523	2439	472	665
1.2	Bonus to all Staff	281	1123	641	2142	1406	115	258	1149	379	426
2	Employers' Contribution	10118	12656	1912	7397	3815	943	31557	5482	2581	1654

<b>Table 4.3: Fuels consumed at Industry by their type for each 2-digit industry division (NIC-2008) for ASI 2011-12</b>							
<b>NIC-2digit</b>	<b>Type of fuel(Value figures in Rs Thousand)</b>						
	<b>Coal</b>		<b>Electricity purchased</b>		<b>Petroleum Products</b>	<b>Other Fuels</b>	<b>Total</b>
	<b>Quantity Th.Tonne</b>	<b>Value</b>	<b>Quantity Th. Kwh.</b>	<b>Value</b>	<b>Value</b>	<b>Value</b>	<b>Value</b>
<b>10</b>	0	2700	163161	2814437	793597	251951	3862685
<b>11</b>	5	20226	19761	105827	88975.65	12870	227898
<b>12</b>	0	0	164	3977	883.8694	2386	7247
<b>13</b>	0	0	187421	975598	95772	67307	1138677
<b>14</b>	0	0	11992	77500	81223.82	79219	237943
<b>15</b>	0	0	6298	52470	10730.72	108	63309
<b>16</b>	0	0	27796	386026	22044.11	9856	417926
<b>17</b>	137	553439	129353	571247	80592.14	151408	1356686
<b>18</b>	0	0	22519	130060	21936.46	8098	160094
<b>19</b>	0	0	63389	374791	26677420	22	27052233
<b>20</b>	0	333463	379759	1782542	2053585	551999	4721588
<b>21</b>	0	0	10279	74835	227281.1	37937	340053
<b>22</b>	33	193646	205993	1438242	893364.9	233850	2759103
<b>23</b>	71	397926	238434	1196966	794706.3	218367	2607965
<b>24</b>	4	28123	370607	2591555	502756.4	10808	3133242
<b>25</b>	1	19286	21000	257959	93131.44	744	371121
<b>26</b>	0	0	35025	204335	38227.67	830	243392
<b>27</b>	0	0	8734	50846	33960.58	745	85551
<b>28</b>	0	0	3410	34290	5088.52	601	39979
<b>29</b>	0	0	277	1855	467.952	0	2323
<b>30</b>	0	0	30563	119160	21895.87	58638	199694
<b>31</b>	0	0	3951	20477	4653.984	7404	32535
<b>32</b>	0	0	1502	8514	6705.88	698	15919
<b>33</b>	0	0	1772	25010	3368.599	83	28461
<b>58</b>	0	0	9720	48791	14191.19	463	63445
<b>Others</b>	0	0	10169	97893	697412	7995	803301
<b>Total</b>	<b>251</b>	<b>1548809</b>	<b>1963049</b>	<b>13445204</b>	<b>33263974</b>	<b>1714385</b>	<b>49972371</b>

## SAMPLE DESIGN AND ESTIMATION PROCEDURE

1. As stated in Section 1 of this publication, FOD, NSSO collects the data for central sample units, and the data so collected are validated, processed, tabulated and published by the CSO (IS Wing). For selection of central sample units, all the factories in the frame are divided into two categories, viz., Census Sector and Sample Sector.

2. **Census Sector:** Census Sector consists of the following units:

a) All industrial units belonging to the six less industrially developed states/ UT's viz. Manipur, Meghalaya, Nagaland, Sikkim, Tripura and Andaman & Nicobar Islands.

b) For the rest of the states/ UT's., (i) units having 100 or more workers, and (ii) all factories covered under Joint Returns.

c) After excluding the Census Sector units as defined above, all units belonging to the strata (*State by Sector by 4-digit of NIC-08*) having less than or equal to 4 units are also considered as Census Sector units.

3. **Sample Sector:** From the remaining units excluding those of Census Sector, called the sample sector, samples are drawn circular systematically considering sampling fraction of 17% within each stratum (*State X Sector X 4-digit NIC*) for all the states. An even number of units with a minimum of 4 are selected and evenly distributed in two sub-samples. The sectors considered here are Biri, Manufacturing and Electricity.

4. **Estimation Procedure**

4.1 **Notations:**

i = subscript for i-th state

s = subscript for s-th stratum in the i-th state

m = subscript for sub-sample (m =1, 2)

k = subscript for k-th sample enterprise under a particular stratum

E = total number of factory **in the sample sector** in a stratum

e = number of factories surveyed out of total number of factory **in the sample sector** in a stratum

x, y = observed value of characteristics x, y under estimation

$\hat{X}$  ,  $\hat{Y}$  = estimate of population total X, Y for the characteristics x, y

Under the above symbols,

$Y_{ismk}$  = observed value of the characteristic y for the k-th enterprise belonging to the m-th sub-sample for the s-th stratum in the i-th state.

**(a) Formulae for estimation of aggregates for a state based on central sample:**

Estimation formula for any characteristics of the enterprise **for the sample sector** of the i-th state is:

$$\hat{Y}'_i = \sum_{s=1} \left[ \frac{E_{is}}{e_{is}} \left[ \sum_{k=1}^{e_{is1}} y_{is1k} + \sum_{k=1}^{e_{is2}} y_{is2k} \right] \right] \dots\dots\dots (1)$$

The formula for corresponding sub-sample wise estimates **for the sample sector** of the i-th state is:

$$\hat{Y}'_{im} = \sum_{s=1} \left[ \frac{E_{is}}{e_{ism}} \sum_{k=1}^{e_{ism}} y_{ismk} \right], \quad m=1,2. \dots\dots\dots (1.1)$$

If  $\hat{Y}''_i$  be the corresponding estimate for that characteristic of the enterprise **for the census sector** of the i-th state, then the estimate for that characteristic of the enterprise for the i-th state **as a whole** is given by:

$$\hat{Y}_i = \hat{Y}'_i + \hat{Y}''_i \dots\dots\dots (2)$$

The estimate of the characteristic of the enterprise for all-India will be:

$$\hat{Y} = \sum_i \hat{Y}_i \dots\dots\dots (3)$$

**4.2 Estimates of Ratios:**

Let  $\hat{Y}$  and  $\hat{X}$  be the overall estimate of the aggregates Y and X for two characteristics y and x, respectively at the State/ UT/ all-India level.

Then the combined ratio estimate ( $\hat{R}$ ) of the ratio ( $R = \frac{Y}{X}$ ) will be obtained as

$$\hat{R} = \frac{\hat{Y}}{\hat{X}}.$$

**4.3 Estimates of Error for Aggregate  $\hat{Y}$ :** The variance is to be obtained for the sample sector units only. The estimated variances of the estimates at state level will be as follows:

$$V\hat{a}r(\hat{Y}_i) = \sum_s V\hat{a}r(\hat{Y}_{is}) \dots\dots\dots (4)$$

where  $V\hat{a}r(\hat{Y}_{is})$  is given as below:

$$V\hat{a}r(\hat{Y}_{is}) = \{(\hat{Y}_{is1} - \hat{Y}_{is2})/2\}^2 \dots\dots\dots (5)$$

For all-India, the estimated variances of the estimates will be as follows:

$$Var(\hat{Y}) = \sum_i Var(\hat{Y}_i) \dots\dots\dots (6)$$

4.4 **For ratio  $\hat{R}$ :**

For  $\hat{R}$  at all-India,

$$MSE(\hat{R}) = \frac{1}{(\hat{X})^2} [\hat{V}(\hat{Y}) - 2\hat{R}Co\hat{v}(\hat{X}, \hat{Y}) + \hat{R}^2\hat{V}(\hat{X})] \dots\dots\dots (7)$$

For  $\hat{R}$  at state level,

$$MSE(\hat{R}_i) = \frac{1}{(\hat{X}_i)^2} [\hat{V}(\hat{Y}_i) - 2\hat{R}_iCo\hat{v}(\hat{X}_i, \hat{Y}_i) + \hat{R}_i^2\hat{V}(\hat{X}_i)] \dots\dots (8)$$

4.5 **Estimates of RSE:**

$$RSE(\hat{Y}) = \frac{\sqrt{Var(\hat{Y})}}{\hat{Y}} \times 100 \dots\dots\dots (9)$$

$$MSE(\hat{R}) = \frac{\sqrt{MSE(\hat{R})}}{\hat{R}} \times 100 \dots\dots\dots (10)$$

4.6 **Multipliers for enterprises:**

The formulae for multipliers for a stratum are given below:

formula for sub-sample wise multiplier	formula for combined sample multiplier
$\frac{E_{is}}{e_{ism}}, i= 1 \text{ or } 2.$	$\frac{E_{is}}{e_{is}}$

4.7 **Treatment for surveyed cases and casualty cases:**

4.7.1 While counting the number of units surveyed ( $e_{ism}$ ) in the m-th sub-sample of a stratum, all the units with survey codes 1 to 9 recorded in Item 12, Block A will be considered.

4.7.2 *Casualty cases:* Units with survey codes 5, 7 and 8 as per Item 12, Block A are treated as casualties.



4.7.3 *Zero cases:* Units with survey codes 4, 6 and 9 should not have been present in the frame for the reasons like 'non-existence of unit and owner not traceable' or 'unit deleted due to de-registration or out of coverage', etc., and such units are treated as 'zero' cases in calculating the weights (multipliers).

#### 4.8 ***Treatment in cases of void strata:***

4.8.1 A stratum may be void because of the casualty of all the units belonging to the stratum. This may occur in one sub-sample or in both the sub-samples. If it relates to only one sub-sample, then estimate for the void stratum may be replaced with the estimate as obtained from the other sub-sample for the same stratum.

4.8.2 When a stratum is void in both the sub-samples, the following procedure is recommended:

##### **Case (I): Census sector is void, but sample sector is not void:**

i) Information in respect of all the characteristics may be borrowed from the previous year, if available, for the census sector units belonging to that stratum. In case the information is available for some, then an adjustment factor is to be obtained for the census sector units for which information is not available. For example, if information is available for  $n$  units out of  $N$  in the census sector in a particular stratum, then the appropriate adjustment factor would be  $(N/n)$ .

##### **Case (II): Sample sector is void, but Census sector is not void:**

ii) The estimated figures in respect of all the characteristics obtained for the census sector may be assumed to hold good for each of the units in the sample sector and accordingly, the estimate for the sample sector may be obtained. For example, if there are  $n$  units in the sample sector in a particular stratum, then the estimated figure per census units (i.e., average figures) for a characteristic will be multiplied by  $n$  to obtain the estimate for the sample sector in that stratum.

##### **Case (III): Both the Sample sector and Census sector are void:**

iii) The stratum may be merged with the nearest stratum looking into the description of the 4-digit NIC activity, or else it could be merged with the 4-digit NIC activity 'others' within that 4-digit NIC group.

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Government of India  
Ministry of Statistics and Programme Implementation  
Return under Collection of Statistics Act, 2008 and rules framed there under in 2011  
Annual Survey of Industries 2011-2012 (Part –I)  
(Please read the instructions before filling the return)

<b>Block A: Identification particulars (for official use)</b>											
1. Schedule Despatch (DSL) No.											
2. PSL No.											
3. Scheme code ( <i>Census-1, Sample-2</i> )											
4. Industry code as per frame (4-digit level of NIC-2008)											
5. Industry code as per return (5-digit level of NIC-2008)											
6. Description of Industry:											
7. State Code											
8. District Code											
9. Sector ( <i>Rural-1, Urban-2</i> )											
10. RO /SRO code											
11. No. of Units											
12. Status of Unit ( <i>Code</i> )											

<b>Block B: Particulars of the factory (to be filled by owner of the factory)</b>											
1. Name and address of the Industrial undertaking:						1.1 Vill./Town:					
						1.2 District name:					
						1.3 State name:					
						1.4 PIN Code					
2. Type of organisation ( <i>code</i> )											
3. Type of ownership ( <i>code</i> )											
4. Whether the unit has ISO Certification, 14000 Series ( <i>yes-1, no-2</i> )											
5. Year of initial production											
6. Accounting year (..... to .....)										to	
7. Number of months of operation											
8. Does your unit have computerised accounting system? ( <i>yes-1, no-2</i> )											
9. Can your unit supply ASI data in computer media? ( <i>yes-1, no-2</i> )											
10. Details of contact person						i) Name & designation:					
						ii) Tele (with STD code)					
						iii) FAX no.					
						iv) E-mail					

**DECLARATION**

I hereby declare that information furnished in this return is correct and complete to the best of my knowledge and belief.

Date :

Place :

(Name and Signature of owner with stamp)

**DSL No**      **PSL No**

[illegible]

DSL No  PSL No 

<b>Block D: WORKING CAPITAL AND LOANS</b>			
Sl. No.	Items	Opening (Rs.)	Closing (Rs.)
(1)	(2)	(3)	(4)
1.	Raw Materials & Components and Packing materials		
2.	Fuels & Lubricants		
3.	Spares, Stores & others		
4.	<b>Sub-total (items 1 to 3)</b>		
5.	Semi-finished goods/work in progress		
6.	Finished goods		
7.	<b>Total inventory ( items 4 to 6)</b>		
8.	Cash in Hand & at Bank		
9.	Sundry Debtors		
10.	Other current assets		
11.	<b>Total current assets (items 7 to 10)</b>		
12.	Sundry Creditors		
13.	Over draft, cash credit, other short term loan from banks & other financial institutions		
14.	Other current liabilities		
15.	<b>Total current liabilities (items 12 to 14)</b>		
16.	<b>Working Capital (item 11-item 15)*</b>		
17.	Outstanding loans (excluding interest but including deposits)**		

*Note:*

\* Give reasons in the footnote for negative values and abnormal verification in opening and closing values.

\*\* If outstanding loans include interest, a footnote may be given

DSL No       PSL No

Block E: EMPLOYMENT AND LABOUR COST							
Sl. No.	Category of staff	Man-days worked			Average number of persons worked	No. of mandays paid for	Wages/ salaries (in Rs.)
		Manu- facturing	Non Manufacturing	Total			
1	2	3	4	5	6	7	8
<b>Part A: Details for each category of staff</b>							
1.	Male workers employed directly						
2.	Female workers employed directly						
3.	<b>Sub-total (items 1 + 2)</b>						
4.	Workers employed through contractors						
5.	<b>Total workers (items 3 + 4)</b>						
6.	Supervisory & managerial staff						
7.	Other employees						
8.	Unpaid family members/ proprietor/ coop. members						
9.	<b>Total employees (items 5+6+7+8)</b>						
<b>Part B: Some details for all categories of staff combined</b>							
10.	Bonus (in Rs.)						
11.	Contribution to provident & other funds (in Rs.)						
12.	Workmen & staff welfare expenses (in Rs.)						
13.	Number of working days	(i) Manufacturing days					
		(ii) Non-manufacturing days					
		<b>(iii) Total ( i+ ii)</b>					
14.	<b>Total cost of production (in Rs.)</b> [entry in col. 8 of item 9, 10, 11, and 12, block E + entry in col. 3 of item 7, 8, 9 & 10, block F + entry in col. 6 of item 23 of block H + entry in col. 6 of item 7, block I]						

DSL No  PSL No 

<b>Block F : OTHER EXPENSES</b>		
Sl. No.	Items	Expenditure (in Rs.)
(1)	(2)	(3)
1.	Work done by others on materials supplied by the industrial undertaking	
2.	Repair & maintenance of	
	(i) Buildings and other construction	
	(ii) Other fixed assets	
3.	Operating expenses	
4.	Non-operating expenses (excluding insurance charges)	
5.	Insurance charges	
6.	Rent paid for plant & machinery and other fixed assets	
7.	<b>Total expenses (1 to 6)</b>	
8.	Rent paid for buildings	
9.	Rent paid for land on lease or royalties on mines, quarries and similar assets	
10.	Interest paid	
11.	Purchase value of goods sold in the same condition as purchased	

<b>Block G: OTHER OUTPUT/RECEIPTS</b>		
Sl. No.	Items	Receipts (in Rs.)
(1)	(2)	(3)
1.	Income from services (industrial/non industrial including work done for others on materials supplied by them and sale value of waste left by the party)	
2.	Variation in stock of semi-finished goods (col.4 <i>minus</i> col 3 against item 5 in block D)	
3.	Value of electricity generated and sold	
4.	Value of own construction	
5.	Net balance of goods sold in the same condition as purchased. (item 11 of block G <i>minus</i> item 11 of block F)	
6.	Rent received for plant & machinery and other fixed assets	
7.	<b>Total receipts (1 to 6)</b>	
8.	Rent received for buildings	
9.	Rent received for land on lease or royalties on mines, quarries and similar assets	
10.	Interest received	
11.	Sale value of goods sold in the same condition as purchased	
12.	Total subsidies	

DSL No  PSL No 

<b>Block H: Indigenous input items consumed (if needed, additional sheets may be used for recording input items with serial nos. starting from 25)</b>						
Sl. No.	Item description	Item code (NPC-MS)	Unit of quantity	Quantity consumed	Purchase value (in Rs.)	Rate per unit (in Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Major ten basic items (indigenous)					
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.	Other basic items (indigenous)*	9920100				
12.	<b>Total basic items (items 1 to 11)</b>	<b>9990100</b>				
13.	Non-basic chemicals – all kinds	9920300				
14.	Packing items	9990800				
15.	Electricity own generated	9990400	KWH			
16.	Electricity purchased & consumed	9990500	KWH			
17.	Petrol, diesel, oil, lubricants consumed	9990600				
18.	Coal consumed	9990700	Tonne			
19.	Gas consumed	9990900	KG			
20.	Other fuel consumed	9920400				
21.	Consumable store	9922000				
22.	Total non-basic items (items 13 to 21)	9992000				
23.	<b>Total inputs (items 12+ 22)</b>	<b>9993000</b>				
24.	Any additional requirement of electricity (unmet demand)		KWH			
* Full description of items not in NPC-MS 2011:						

DSL No  PSL No 

<b>Block I: Imported input items consumed - directly only (if needed, additional sheets may be used for recording input items with serial nos. starting from 8)</b>						
Sl. No.	Item description (Major five imported items)	Item code (NPC-MS)	Unit of quantity	Quantity consumed	Purchase value (in Rs.)	Rate per unit (in Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.						
2.						
3.						
4.						
5.						
6.	<b>Other imported items</b>	<b>9922100</b>				
7.	<b>Total imports (consumed) (items 1 to 6)</b>	<b>9994000</b>				

DSL No  PSL No 

<b>Block J: Products and by-products manufactured by the unit (if needed, additional sheets may be used for recording output items with serial nos. starting from 14)</b>												
Sl. No.	Products/By-products description (First ten major items as per value - no brand name)	Item code (NPC-MS)	Unit of quantity	Quantity manufactured	Quantity sold	Gross sale value (Rs) (including subsidy received)	Distributive expenses (Rs.)				Per unit net sale value (Rs. 0.00) (col. 7- col.11) ÷ col. 6	Ex-factory value of quantity manufactured including subsidy received (Rs.) (col.12× col.5)
							Excise duty	Sales tax/VAT	Others	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.												
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												
11.	Other products/by-products*	9921100										
12.	<b>Total ( items 1 to 11)</b>	<b>9995000</b>										
13.	Share (%) of products/by-products directly exported											

\* Full description of items not in NPC-MS 2011:



DSL No  PSL No 

<b>Block K: Information and Communication technology (ICT) usage</b>		
Sl. No.	ICT indicator	yes-1, no-2
1.	Is the enterprise using computer?	
2.	Does the enterprise use internet?	
3.	Does the enterprise have its own website?	
4.	Does the enterprise receive orders through internet?	
5.	Does the enterprise use internet for business purpose?	
6.	Does the enterprise access the internet through broadband?	
7.	Does the enterprise has a local area network?	

<b>Block L: Energy Conservation (EC) measures</b>		
Sl. No.	EC indicator	yes-1, no-2
<b>Have any measures been taken during last financial year with regard to:</b>		
1.	Electrical saving?	
2.	Coal saving?	
3.	Oil saving?	
4.	Gas saving?	

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<b>Block M: Particulars of field operations</b>					
1.	Name of Superintending Officer		5.	Date of receipt from factory	
2.	Signature of Superintending Officer		6.	Date of verification/compilation	
3.	Name & Designation of Scrutinising officer		7.	Date(s) of scrutiny	
4.	Signature of Scrutinising Officer		8.	Date of despatch	

<b>Block N: Comments of Superintending Officer/Scrutinising officer</b>	
<p><i>Note: Reasons for negative working capital and for any abnormal values or entries (high or low) in respect to important characteristics (Such as GVA, working capital, wage rate, number of workers, distributive expenses, depreciation etc.) should be given invariably. For instance the reasons for high GVA could be increased demand/production, profit, govt. subsidy; or for low GVA, the reasons could be decreased demand/production, capacity under-utilization, high input cost etc. similarly reasons for any abnormal values of certain important ratios eg. Ratio of output to input, ratio of depreciation/distributive expenses to output etc should be given.</i></p> <p><b><i>Please refer to detailed instructions also for further guidance.</i></b></p>	

**Annual Survey of Industries 2011-2012****Part A**

Report of scrutiny on Part-I of the return

State (code)\_\_\_\_\_ Distt. (code)\_\_\_\_\_

DSL No./PSL No.\_\_\_\_\_

Ind. code (5-digit NIC 2008) as per return \_\_\_\_\_

Scheme Code \_\_\_\_\_

Sl. No.	Bl. no.	Item	Unit	Average rate per unit*	If high or low, reasons to be furnished by	
1	H	Input items (Indigenous) Major Ten basic items consumed	<b>X</b>	<b>X</b>	Superintending Officer	Scrutinising Officer
		1)				
		2)				
		3)				
		4)				
		5)				
		6)				
		7)				
		8)				
		9)				
		10)				
		11) Electricity purchased				
		12) Coal				
2	I	Directly imported items consumed (major five items)				
		1)				
		2)				
		3)				
		4)				
		5)				

\*Average value per unit in nearest whole rupee is to be reported.

3. Percentage yield of product from the basic materials consumed (in case the quantity are common or directly convertible in whole number)

4	Item	Current year (2011-12)	Previous year (2010-11)	Reasons for significant variation, if any.
	1) Average salaries/wages per manday worked (Rs.) (Bl. E: item 5, col. 8 / item 5, col. 5)			
	2) Total worker (number) (Bl. E: item 5, col. 6)			
	3) Total employees (number) (Bl.E: item 9, col. 6)			
	4) Total emoluments (Bl. E: item 9, col. 8+ Bl. E: item 10, col. 8+ Bl. E: item 11, col. 8, Bl. E: item 12, col. 8 )			
	5) Variation in finished goods (Bl. D: item 6, (col. 4 – col. 3)			
	6) Working Capital (Bl. D: item 16, col. 4)			
	7) <b>Total input</b> (Bl. F: item 7, col.3)(+)(Bl. H: item 23, col. 6)(+) (Bl. I: item 7, col. 6)			
	8) <b>Total output</b> (Bl. J: item 12, col.7)(-) (Bl. J: item 12, col.11)+(Bl. D: item 6)(col. 4-col.3)+(Bl. G: item 7, col. 3)			
	9) Gross value added (GVA) (Item 8-Item 7 as above)			

	Item	Current year (2011-12)	Previous year (2010-11)	Reasons for significant variation, if any.
	10) Net value added (Item 9 as above)-(Depreciation (Bl. C, item 10, col. 9)			
	11) Net Income (Item 10 as above)(-) Bl. F: items (8+9+10) under col.3 (+) Bl. G: item (8+9+10) under col.3			
	12) Profit (Item 11 as above)(-) (Bl. E: item 9, col. 8+ Bl. E: item 10, col. 8+ Bl. E: item 11, col. 8, Bl. E: item 12, col. 8 )			
	13) Actual addition to fixed assets (Bl. C: item 10, col.5)			
	14) GVA (through Ex-factory Value)(Bl. J: item 12, col.13)(+)(Bl. G: item 8 col. 3)(-)(item 7 as above)			

**5. Impose check on the following and give observations against each item**

Sl. No.	Check points	Observations (Yes-1/No-2)
1.	Whether codes and identification particulars have been correctly furnished in Block A?	
2.	Whether information for all the items in Block B have been correctly furnished?	
3.	If the working capital in item 16 of Block D is negative whether reasons furnished in the footnote of Block D of the Return and also in Block N along with code.	
4.	Whether the return has been duly signed by owner with stamp?	
5.	If wide variation is noticed between Opening & Closing value of Working Capital, whether reasons furnished in the footnote of Block D and also in Block N along with code	
6.	Whether special check has been made in case of negative GVA?	
7.	Whether basic entries have been thoroughly rechecked where output/input ratio Is less than 0.5	
8.	Whether ratio of Distributive expenses to gross sales is reasonable? If no, whether the relevant entries have been rechecked particularly where this ratio exceeds 20%.	
9.	If the total Bonus is more than 20% of total wages/salaries whether suitable remarks given in the Return?	
10.	If sale value of goods sold in same condition as purchased (Item-11 of Block G) is less than the purchase value of the same (Item-11 of Block F), whether reasons furnished in the return ?	
11.	Whether Balance Sheet, Profit & Loss Account and Working Sheet are attached with the O/C of the Return ?	
12.	Whether, the ex-factory value of output in column-13 of Block J have been calculated correctly for each of the 10 major items of product and by-product and also for item 11 ?	
13.	Whether the entries in Blocks H & I are reported independently ?	

Signature of the Superintending Officer

( )  
Name of the Superintending Officer

<b>PART-B</b> <b>(To be filled in by Scrutinizing officer)</b>		
Impose check on the following and give observations against each item		
Sl. No.	Check points	Observations (Yes-1/No-2)
1.	Examine the Industry Code with reference to Production/Process and state whether Industry Code is reported in 5 digit NIC 2008 against item 5 of Block A.	
2.	Whether valid new State Code has been entered against item 7 of Block 'A'?	
3.	Whether Schedule Despatch no. has been correctly filled in against item 1 of Block A ?	
4.	State whether proper remarks in Block N for all important parameters such as GVA, working capital, wage rate, number of workers, distributive expenses, depreciation etc. are given.	
5.	Whether average salaries/wages per manday worked (worker) has been checked calculated correctly and are within the reasonable limits?	
6.	Whether special check has been made in case of negative GVA?	
7.	Whether basic entries have been rechecked where output/Input ratio is less than 0.5	
8.	Whether ratio of distributive expenses to gross sales is reasonable? If no, whether the relevant entries have been rechecked particularly where this ratio exceeds 20%.	
9.	If total bonus exceeds 20% of total salaries & wages, whether suitable remarks furnished ?	
10.	Whether yield ratio of products from basic materials consumed (in case the units of quantity are common or directly convertible) are correctly calculated and are within prescribed limits ?	
11.	Whether data reported in the return have been checked with Balance Sheet and Profit & Loss Account ?	

Signature of Scrutinizing officer

 ( )  
 Name of Scrutinizing officer

## Description along with 3/4-digit NIC-2008 codes

<b>3-digit NIC-2008</b>	<b>4-digit NIC-2008</b>	<b>Description</b>
016	0163	Post-harvest crop activities
	0164	Seed processing for propagation
089	0893	Extraction of salt
101	1010	Processing and preserving of meat
	102	1020 Processing and preserving of fish, crustaceans and molluscs and products thereof
	103	1030 Processing and preserving of fruit and vegetables
	104	1040 Manufacture of vegetable and animal oils and fats
	105	1050 Manufacture of dairy products
	106	Manufacture of grain mill products, starches and starch products
		1061 Manufacture of grain mill products
		1062 Manufacture of starches and starch products
	107	Manufacture of other food products
		1071 Manufacture of bakery products
		1072 Manufacture of sugar
		1073 Manufacture of cocoa, chocolate and sugar confectionery
		1074 Manufacture of macaroni, noodles, couscous and similar farinaceous products
		1075 Manufacture of prepared meals and dishes
		1079 Manufacture of other food products n.e.c.
	108	1080 Manufacture of prepared animal feeds
	110	Manufacture of beverages
		1101 Distilling, rectifying and blending of spirits; ethyl alcohol production from fermented materials
		1102 Manufacture of wines
		1103 Manufacture of malt liquors and malt
		1104 Manufacture of soft drinks; production of mineral waters and other bottled waters

## Description along with 3/4-digit NIC-2008 codes

<b>3-digit NIC-2008</b>	<b>4-digit NIC-2008</b>	<b>Description</b>
120	1200	Manufacture of tobacco products
131		Spinning, weaving and finishing of textiles
	1311	Preparation and spinning of textile fibres
	1312	Weaving of textiles
	1313	Finishing of textiles
139		Manufacture of other textiles
	1391	Manufacture of knitted and crocheted fabrics
	1392	Manufacture of made-up textile articles, except apparel
	1393	Manufacture of carpets and rugs
	1394	Manufacture of cordage, rope, twine and netting
	1399	Manufacture of other textiles n.e.c.
141	1410	Manufacture of wearing apparel, except fur apparel
142	1420	Manufacture of articles of fur
143	1430	Manufacture of knitted and crocheted apparel
151		Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur
	1511	Tanning and dressing of leather; dressing and dyeing of fur
	1512	Manufacture of luggage, handbags and the like, saddlery and harness
152	1520	Manufacture of footwear
161	1610	Saw milling and planing of wood
162		Manufacture of products of wood, cork, straw and plaiting materials
	1621	Manufacture of veneer sheets; manufacture of plywood, laminboard, particle board and other panels and board
	1622	Manufacture of builders' carpentry and joinery
	1623	Manufacture of wooden containers
	1629	Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials

## Description along with 3/4-digit NIC-2008 codes

<b>3-digit NIC-2008</b>	<b>4-digit NIC-2008</b>	<b>Description</b>
170		Manufacture of paper and paper products
	1701	Manufacture of pulp, paper and paperboard
	1702	Manufacture of corrugated paper and paperboard and containers of paper and paperboard
	1709	Manufacture of other articles of paper and paperboard
181		Printing and service activities related to printing
	1811	Printing
	1812	Service activities related to printing
182	1820	Reproduction of recorded media
191	1910	Manufacture of coke oven products
192	1920	Manufacture of refined petroleum products
201		Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms
	2011	Manufacture of basic chemicals
	2012	Manufacture of fertilizers and nitrogen compounds
	2013	Manufacture of plastics and synthetic rubber in primary forms
202		Manufacture of other chemical products
	2021	Manufacture of pesticides and other agrochemical products
	2022	Manufacture of paints, varnishes and similar coatings, printing ink and mastics
	2023	Manufacture of soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations
	2029	Manufacture of other chemical products n.e.c.
203	2030	Manufacture of man-made fibres
210	2100	Manufacture of pharmaceuticals, medicinal chemical and botanical products
221		Manufacture of rubber products
	2211	Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres
	2219	Manufacture of other rubber products

## Description along with 3/4-digit NIC-2008 codes

<b>3-digit NIC-2008</b>	<b>4-digit NIC-2008</b>	<b>Description</b>
222	2220	Manufacture of plastics products
231	2310	Manufacture of glass and glass products
239		Manufacture of non-metallic mineral products n.e.c.
	2391	Manufacture of refractory products
	2392	Manufacture of clay building materials
	2393	Manufacture of other porcelain and ceramic products
	2394	Manufacture of cement, lime and plaster
	2395	Manufacture of articles of concrete, cement and plaster
	2396	Cutting, shaping and finishing of stone
	2399	Manufacture of other non-metallic mineral products n.e.c.
241	2410	Manufacture of basic iron and steel
242	2420	Manufacture of basic precious and other non-ferrous metals
243		Casting of metals
	2431	Casting of iron and steel
	2432	Casting of non-ferrous metals
251		Manufacture of structural metal products, tanks, reservoirs and steam generators
	2511	Manufacture of structural metal products
	2512	Manufacture of tanks, reservoirs and containers of metal
	2513	Manufacture of steam generators, except central heating hot water boilers
252	2520	Manufacture of weapons and ammunition
259		Manufacture of other fabricated metal products; metalworking service activities
	2591	Forging, pressing, stamping and roll-forming of metal; powder metallurgy
	2592	Machining; treatment and coating of metals
	2593	Manufacture of cutlery, hand tools and general hardware



## Description along with 3/4-digit NIC-2008 codes

<b>3-digit NIC-2008</b>	<b>4-digit NIC-2008</b>	<b>Description</b>
	2599	Manufacture of other fabricated metal products n.e.c.
261	2610	Manufacture of electronic components
262	2620	Manufacture of computers and peripheral equipment
263	2630	Manufacture of communication equipment
264	2640	Manufacture of consumer electronics
265		Manufacture of measuring, testing, navigating and control equipment; watches and clocks
	2651	Manufacture of measuring, testing, navigating and control equipment
	2652	Manufacture of watches and clocks
266	2660	Manufacture of irradiation, electromedical and electrotherapeutic equipment
267	2670	Manufacture of optical instruments and equipment
268	2680	Manufacture of magnetic and optical media
271	2710	Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus
272	2720	Manufacture of batteries and accumulators
273		Manufacture of wiring and wiring devices
	2731	Manufacture of fibre optic cables for data transmission or live transmission of images
	2732	Manufacture of other electronic and electric wires and cables
	2733	Manufacture of wiring devices
274	2740	Manufacture of electric lighting equipment
275	2750	Manufacture of domestic appliances
279	2790	Manufacture of other electrical equipment
281		Manufacture of general purpose machinery
	2811	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines
	2812	Manufacture of fluid power equipment
	2813	Manufacture of other pumps, compressors, taps and valves

## Description along with 3/4-digit NIC-2008 codes

<b>3-digit NIC-2008</b>	<b>4-digit NIC-2008</b>	<b>Description</b>
	2814	Manufacture of bearings, gears, gearing and driving elements
	2815	Manufacture of ovens, furnaces and furnace burners
	2816	Manufacture of lifting and handling equipment
	2817	Manufacture of office machinery and equipment
	2818	Manufacture of power-driven hand tools
	2819	Manufacture of other general-purpose machinery
282		Manufacture of special-purpose machinery
	2821	Manufacture of agricultural and forestry machinery
	2822	Manufacture of metal-forming machinery and machine tools
	2823	Manufacture of machinery for metallurgy
	2824	Manufacture of machinery for mining, quarrying and construction
	2825	Manufacture of machinery for food, beverage and tobacco processing
	2826	Manufacture of machinery for textile, apparel and leather production
	2829	Manufacture of other special-purpose machinery
291	2910	Manufacture of motor vehicles
292	2920	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
293	2930	Manufacture of parts and accessories for motor vehicles
301		Building of ships and boats
	3011	Building of ships and floating structures
	3012	Building of pleasure and sporting boats
302	3020	Manufacture of railway locomotives and rolling stock
303	3030	Manufacture of air and spacecraft and related machinery
304	3040	Manufacture of weapons and ammunition
309		Manufacture of transport equipment n.e.c.

## Description along with 3/4-digit NIC-2008 codes

<b>3-digit NIC-2008</b>	<b>4-digit NIC-2008</b>	<b>Description</b>
	3091	Manufacture of motorcycles
	3092	Manufacture of bicycles and invalid carriages
	3099	Manufacture of other transport equipment n.e.c.
310	3100	Manufacture of furniture
321		Manufacture of jewellery, bijouterie and related articles
	3211	Manufacture of jewellery and related articles
	3212	Manufacture of imitation jewellery and related articles
322	3220	Manufacture of musical instruments
323	3230	Manufacture of sports goods
324	3240	Manufacture of games and toys
325	3250	Manufacture of medical and dental instruments and supplies
329	3290	Other manufacturing n.e.c.
331		Repair of fabricated metal products, machinery and equipment
	3311	Repair of fabricated metal products
	3312	Repair of machinery
	3313	Repair of electronic and optical equipment
	3314	Repair of electrical equipment
	3315	Repair of transport equipment, except motor vehicles
	3319	Repair of other equipment
332	3320	Installation of industrial machinery and equipment
351	3510	Electric power generation, transmission and distribution
352	3520	Manufacture of gas; distribution of gaseous fuels through mains
353	3530	Steam and air conditioning supply
360	3600	Water collection, treatment and supply

## Description along with 3/4-digit NIC-2008 codes

<b>3-digit NIC-2008</b>	<b>4-digit NIC-2008</b>	<b>Description</b>
370	3700	Sewerage
381		Waste collection
	3811	Collection of non-hazardous waste
	3812	Collection of hazardous waste
382		Waste treatment and disposal
	3821	Treatment and disposal of non-hazardous waste
	3822	Treatment and disposal of hazardous waste
383	3830	Materials recovery
452	4520	Maintenance and repair of motor vehicles
454	4540	Sale, maintenance and repair of motorcycles and related parts and Accessories
521	5210	Warehousing and storage
581		Publishing of books, periodicals and other publishing activities
	5811	Book publishing
	5812	Publishing of directories and mailing lists
	5813	Publishing of newspapers, journals and periodicals
	5819	Other publishing activities
591		Motion picture, video and television programme activities
	5911	Motion picture, video and television programme production activities
	5912	Motion picture, video and television programme post-production activities
	5913	Motion picture, video and television programme distribution activities
592	5920	Sound recording and music publishing activities
742	7420	Photographic activities
829		Business support service activities n.e.c.
	8292	Packaging activities

## Description along with 3/4-digit NIC-2008 codes

<b>3-digit NIC-2008</b>	<b>4-digit NIC-2008</b>	<b>Description</b>
951		Repair of computers and communication equipment
	9511	Repair of computers and peripheral equipment
	9512	Repair of communication equipment
952		Repair of personal and household goods
	9521	Repair of consumer electronics
	9522	Repair of household appliances and home and garden equipment
	9523	Repair of footwear and leather goods
	9524	Repair of furniture and home furnishings
	9529	Repair of personal and household goods, n.e.c.
960		Other personal service activities
	9601	Washing and (dry-) cleaning of textile and fur products



**DEPARTMENT OF ECONOMICS AND STATISTICS  
KERALA**

email: [ecostatdir@gmail.com](mailto:ecostatdir@gmail.com), Phone:0471 2305318