



GOVERNMENT OF GOA

REPORT ON
INDEX OF INDUSTRIAL PRODUCTION IN GOA
DURING
2013 - 2014
(Base Year 2004-05)

DIRECTORATE OF PLANNING,
STATISTICS AND EVALUATION
PORVORIM-GOA

PREFACE

The Index of Industrial Production measures the trend in the behavior of Industrial Production. It helps in analyzing structural changes that are taking place in the sector over a period of time with reference to the base year.

Since, mining and electricity are both important activities along with manufacturing sector in the State, separate indices have been compiled for these sectors.

The Base year for the construction of the series of Index Numbers in Goa has been changed from time to time. The present change in the base year to 2004-05 is in accordance with the guidance of Central Statistical Organization, Government of India. This is the thirty second report on Index numbers since inception, and the fourth in the revised series with the base year 2004-05.

It is hoped that this publication would be useful to those who are involved in the developmental planning of industrial sector. The co-operation extended by the industrial units in Goa, by supplying data is gratefully acknowledged. We are thankful to the staff of Industrial Statistics wing, Central Statistical Organization, Government of India, for providing valuable guidance from time to time. Our thanks are also to Indian Bureau of Mines, Nagpur, for supplying data on minerals and Central Electricity Authority for supplying data on generation of electricity.

I wish to place on record my appreciation for all the officers and staff members of NSS Division for their dedicated efforts in bringing out his Publication. I also place on record my appreciation for factory management who had extended their all co-operation to our field officials in collecting the data

Suggestions for improvement in the publication are most welcome.

Place: Porvorim
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(Vikas S. N. Gaunekar)
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INTRODUCTION

BACKGROUND

Industrial sector plays a vital role in the economic development of a region. The development in the industrial sector is measured by means of a tool called “Index of industrial Production” (IIP). This statistical device is one of the most important macro economic indicators, indicating the magnitude of industrial output over a given period compared to the reference period. The growth in production is measured with reference to the base period to assess the performance of the industrial sector. The index is used extensively in policy planning by the Government in public sector as also by other Organizations and Researchers, Industrialists, Economists, Administrators, etc.

The Directorate of Planning, Statistics and Evaluation took up the task of constructing the Index of Industrial Production (mining and manufacturing sector) on a quarterly basis from the year 1971 onwards with base year 1970 = 100. The index series was based on the information collected from factories registered under the Factories Act, 1948 and functioning within the jurisdiction of Goa. Subsequently, the base year was changed from 1970 to 1975 as a result of big strides taken by the industrial sector in Goa.

Further, as per the guidelines received from the Central Statistical Organisation, New Delhi, the base year was revised to 1980-81=100 by covering more items in the basket to reflect the industrial growth more adequately. The change of base year from 1980-81=100 to 1993-94=100 for providing a comparable state level Index of Industrial Production was initiated by Central Statistical Organisation, New Delhi, as per the assurance given by the Prime Minister to the Parliament in April 1993. Under the “Comparable state level Index of Industrial Productions”, all the states in India adopt a common base year with common methodology for a uniform compilation of Indices.

In order to maintain synchronization with the base year of all India IIP and capture structural changes in the industrial sector in the State/UT's the base year of Comparable State level IIP's has been shifted from 1993-94=100 to 2004-05=100.

This is the 32nd report in the series since its inception in the state and the fourth in the present revised series of 2004-05. This issue covers the indices for the year 2013-14 for Electricity, Mining as well as Manufacturing sectors along with combined indices for all the three sectors.

SCOPE AND COVERAGE

The scope of Index of Industrial Production has been confined to Electricity sector, Mining sector and Manufacturing sector. The manufacturing sector is restricted to the industries registered under section 2(m) (i) and 2 (m) (ii) of the factories Act, 1948 and are functioning within the jurisdiction of the state.

COLLECTION OF DATA

- 1) The monthly Electricity Generation figures (power plant wise) for computation of Electricity Index is provided by Central Electricity Authority (CEA).
- 2) The mineral data for computation of mining index is obtained from the Indian Bureau of Mines (IBM), Nagpur.
- 3) The manufacturing index computed is based on the month-wise production data collected from the selected factories by issuing letters from this Directorate. Delayed cases are contacted over telephone or by personal visits of the staff of this Directorate.

BASE YEAR

The base year for calculation of the Index Numbers of Industrial Production in respect of Electricity, Mining and Manufacturing sector is 2004-05. It was revised from the earlier base of 1993-94 as per the guidelines of the Central Statistical Organisation, New Delhi.

CHAPTER - II

ITEM BASKET

The three sectors viz. Electricity, Mining and Manufacturing together comprise 247 items in the item basket. The Electricity Sector has been introduced for the first time in the calculation of Index of Industrial Production from 2010-11 with new base year 2004-05. The item covered in this sector is 'Generation of Electricity'. The monthly Electricity Generation figures for computation of Electricity Index are provided by Central Electricity Authority. The Mining Sector comprises of three mineral items viz. Iron ore, Manganese ore and Bauxite. The production figures for the constituents of the item basket in the mining sector are received from Indian Bureau of Mines, Nagpur. These figures are considered on cent percent basis for computation of the index. The items under the Manufacturing Sector are selected on the basis of the detailed list of the products manufactured during 2004-05 which was supplied by Central Statistical Organisation, New Delhi, along with the Guidelines. The manufacturing sector is represented by 243 items spread over 20 industrial groups considered at 2-digit level of NIC-2004.

The new series of IIP with base year 2004-05 includes 'electricity and gas', 'mining & quarrying' and registered 'manufacturing' sectors in its scope. The total weight of 1000 in the new series of State level IIP's has been distributed to 'electricity and gas', 'mining & quarrying' and registered 'manufacturing' sectors on the basis of Gross Value Added (GVA).

Since 'electricity and gas' sector is a single item sector, No apportioning of weight is done.

For 'mining & quarrying' sector, the total weight of the sector has been apportioned to the items included in the item basket in proportion to their value of output furnished by IBM, Nagpur.

The weight of registered 'manufacturing' sector has been further distributed to various 2-digit industry groups (15-36) of NIC-2004 in proportion to their GVA figures. The two digit level weights have been further distributed to represent 3-digit groups which, in turn, is distributed to 4-digit classes within the respective 3-digit groups represented in the item basket. Finally, the 4-digit level weights have been distributed to selected items in the respective 4-digit classes in proportion to item-wise GVO figures.

Table 1: below, provides information on items in the new item basket with base year 2004-05 under the three sectors viz. Electricity, Mining and Manufacturing and these are compared with the previous base year i.e. 1993-94.

TABLE-1

REVISION OF ITEM BASKET FROM BASE 1993-94 TO 2004-05

| Sector | Item basket (base 1993-94) | New items included | Items deleted | Common items | Item basket (base 2004-05) |
|---------------|-------------------------------|-----------------------|------------------|-----------------|-------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Electricity | - | 1 | 0 | 0 | 1 |
| Mining | 3 | 0 | 0 | 3 | 3 |
| Manufacturing | 77 | 211 | 45 | 32 | 243 |
| Total | 80 | 212 | 45 | 35 | 247 |

CHAPTER III
WEIGHTING DIAGRAM

The weighting diagram has been prepared on the basis of Gross Value of Output (GVO) for different items covered. It assigns weights to each item proportionate to their contribution to the total value of output. The sector or division level weights are also assigned to each sector/division. Table 2, shows the sector level allotment of weight in respect to the Gross Value Added.

TABLE-2
DISTRIBUTION OF WEIGHTS AT SECTOR LEVEL
BASE 2004-05=100

| Sl. No. | Sector | Weight |
|----------------|---------------|----------------|
| 1 | 2 | 3 |
| 1 | Electricity | 57.43 |
| 2 | Mining | 136.82 |
| 3 | Manufacturing | 805.75 |
| Total | | 1000.00 |

Table 3, compares the weight allotted to both the sectors during the base year 1993-94 and the revised base 2004-05 at sector level as detailed below.

TABLE-3
COMPARISON OF WEIGHTS DURING THE BASE YEAR
1993-94 & 2004-05

| Sl. No. | Sector | Allotment of Weights during | |
|----------------|---------------|------------------------------------|---------------------|
| | | Base 1993-94 | Base 2004-05 |
| 1 | 2 | 3 | 4 |
| 1 | Electricity | - | 57.43 |
| 2 | Mining | 90.4 | 136.82 |
| 3 | Manufacturing | 909.6 | 805.75 |
| Total | | 1000.0 | 1000.00 |

Table 4, depicts the distribution of weights at 2-digit level groups of mining sector and distribution of weights among items within 2-digit level of the same sector.

TABLE-4
DISTRIBUTION OF WEIGHTS AMONG ITEMS WITHIN
2-DIGIT LEVEL OF MINING SECTOR

| Sl. No. | NIC 2-Digit group | Description of Mining Group | Description of Item | Weight |
|--------------|-------------------|-----------------------------|---------------------|---------------|
| 1 | 2 | 3 | 4 | 5 |
| 1 | 13 | Mining of Metal Ores | a) Iron Ore | 136.66 |
| | | | b) Manganese Ore | 0.03 |
| | | | c) Bauxite | 0.13 |
| Total | | | | 136.82 |

Table 5, exhibits the distribution of weight to various 2-digit industry groups (15-36) of NIC-2004 in proportion to their GVA figures.

TABLE-5
DISTRIBUTION OF WEIGHTS AT 2 DIGIT LEVEL UNDER
MAJOR MANUFACTURING SECTOR

| Sl. No. | NIC 2-Digit group | Description | Weight |
|--------------|-------------------|--|---------------|
| 1 | 15 | Manufacture of Food products and beverages | 51.84 |
| 2 | 17 | Manufacture of Textiles | 21.46 |
| 3 | 18 | Manufacture of Wearing apparel, dressing and dyeing of fur | 0.03 |
| 4 | 20 | Manufacture of Wood and of products of wood and cork, except furniture, manufacture of articles of straw and plaiting materials. | 0.26 |
| 5 | 21 | Manufacture of Paper and Paper Products. | 3.43 |
| 6 | 22 | Publishing, Printing and reproduction of recorded media | 5.56 |
| 7 | 23 | Manufacture of Coke, refined petroleum products and nuclear fuel | 59.10 |
| 8 | 24 | Manufacture of Chemicals and Chemical products | 420.65 |
| 9 | 25 | Manufacture of Rubber and Plastic products | 52.36 |
| 10 | 26 | Manufacture of other Non-metallic mineral products | 12.05 |
| 11 | 27 | Manufacture of Basic Metals | 72.61 |
| 12 | 28 | Manufacture of Fabricated metal products, except machinery and equipment | 9.67 |
| 13 | 29 | Manufacture of Machinery & equipment n.e.c. | 14.66 |
| 14 | 30 | Manufacture of Office, accounting and computing machinery | 23.06 |
| 15 | 31 | Manufacture of Electrical machinery and apparatus n.e.c. | 18.86 |
| 16 | 32 | Manufacture of Radio, television, and communication equipment and apparatus | 4.00 |
| 17 | 33 | Manufacture of Medical, precision and optical instruments, watches and clocks | 20.47 |
| 18 | 34 | Manufacture of Motor vehicles, trailers and semi trailers | 7.98 |
| 19 | 35 | Manufacture of other Transport equipment | 3.65 |
| 20 | 36 | Manufacture of Furniture, manufacturing n.e.c. | 4.07 |
| Total | | | 805.75 |

The weights are allotted to different groups of industries under manufacturing sector at NIC (2004) level, as per the guidelines made available by Central Statistical Organization, Kolkata.

Table 6, gives the detailed picture of distribution of weights to items represented at different industrial groups of electricity, mining and manufacturing sector at 2-digit level of National Industrial Classification (NIC).

TABLE-6
DISTRIBUTION OF WEIGHT, PERCENTAGE AND NUMBER OF ITEMS
SELECTED AT 2-DIGIT LEVEL GROUPS OF NIC MAJOR SECTORS

| Sl. No. | NIC 2-Digit group | Description of NIC group | Weight & its percentage to total | Number of items selected |
|---|-------------------|---|----------------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 |
| ELECTRICITY SECTOR | | | | |
| 1 | 40 | Electricity, Gas, Steam and Hot Water Supply | 57.43(6%) | 1 |
| A) Sub-Total (Electricity) | | | 57.43(6%) | 1 |
| MINING SECTOR | | | | |
| 1 | 13 | Mining of Metal Ores | 136.82(14%) | 3 |
| B) Sub-Total (Mining) | | | 136.82(14%) | 3 |
| MANUFACTURING SECTOR | | | | |
| 1 | 15 | Manufacture of Food products and beverages | 51.84(5%) | 28 |
| 2 | 17 | Manufacture of Textiles | 21.46(2%) | 10 |
| 3 | 18 | Manufacture of Wearing apparel, dressing and dyeing of fur | 0.03(0%) | 4 |
| 4 | 20 | Manufacture of Wood and of products of wood and cork, except furniture, manufacture of articles of straw and plaiting materials | 0.26(0%) | 4 |
| 5 | 21 | Manufacture of Paper and Paper Products | 3.43(0%) | 5 |
| 6 | 22 | Publishing, Printing and reproduction of recorded media | 5.56(1%) | 9 |
| 7 | 23 | Manufacture of Coke, refined petroleum products and nuclearfuel | 59.10(6%) | 3 |
| 8 | 24 | Manufacture of Chemicals and Chemical products | 420.65(42%) | 25 |
| 9 | 25 | Manufacture of Rubber and Plastic products | 52.36(5%) | 10 |
| 10 | 26 | Manufacture of other non-metallic mineral products | 12.05(1%) | 8 |
| 11 | 27 | Manufacture of Basic Metals | 72.6(7%) | 17 |
| 12 | 28 | Manufacture of fabricated metal products, except machinery and equipment | 9.66(1%) | 20 |
| 13 | 29 | Manufacture of machinery & equipment n.e.c. | 14.66(1%) | 19 |
| 14 | 30 | Manufacture of office, accounting and computing machinery | 23.06(2%) | 8 |
| 15 | 31 | Manufacture of electrical machinery and apparatus n.e.c. | 18.86(2%) | 16 |
| 16 | 32 | Manufacture of radio, television, and communication equipment and apparatus | 4.00(1%) | 14 |
| 17 | 33 | Manufacture of medical, precision and optical instruments, watches and clocks | 20.47(2%) | 20 |
| 18 | 34 | Manufacture of motor vehicles, trailers and semi trailers | 7.98(1%) | 6 |
| 19 | 35 | Manufacture of other transport equipment | 3.65(0%) | 4 |
| 20 | 36 | Manufacture of furniture, manufacturing n.e.c. | 4.07(1%) | 13 |
| C) Sub-Total (Manufacturing) | | | 805.75(80%) | 243 |
| (A+B+C) Grand Total (Electricity + Mining + Manufacturing) | | | 1000.00 | 247 |

Table 7, gives the allotment of weights among items within 2-digit level of NIC under electricity, mining and manufacturing sector.

TABLE-7
DISTRIBUTION OF WEIGHTS AMONG ITEMS WITHIN 2-DIGIT LEVEL OF INDUSTRIES
UNDER ELECTRICITY, MINING AND MANUFACTURING SECTOR

| Sl. No. | NIC - 2004 | Description of Item | Weight |
|--|------------|---|-----------------|
| 1 | 2 | 3 | 4 |
| ELECTRICITY SECTOR | | | |
| 40 Electricity, Gas, Steam and Hot Water Supply | | | |
| 1 | 4010 | Generation of Electricity | 57.430 |
| A) Total (ELECTRICITY SECTOR) | | | 57.430 |
| MINING SECTOR | | | |
| 13 Mining of Metal Ores | | | |
| 1 | 1310 | Iron Ore | 136.6648 |
| 2 | 1320 | Manganese Ore | 0.0312 |
| 3 | 1320 | Bauxite | 0.1262 |
| B) Total (MINING SECTOR) | | | 136.8222 |
| MANUFACTURING SECTOR | | | |
| 15 Manufacture of Food Products and beverages | | | |
| 1 | 1511 | Meat (all types) canned | 0.5630 |
| 2 | 1512 | Fish (all types) canned | 0.3900 |
| 3 | 1512 | Shrimps processed | 0.5420 |
| 4 | 1512 | Fish frozen | 0.2590 |
| 5 | 1514 | Oil, copra | 2.2300 |
| 6 | 1514 | Oil-cake, Coconut | 0.0820 |
| 7 | 1514 | Oil, palm | 0.0550 |
| 8 | 1520 | Milk, skimmed or pasteurised, non-flavoured | 1.2550 |
| 9 | 1520 | Ice candy | 0.0790 |
| 10 | 1531 | Maida | 0.0360 |
| 11 | 1533 | Gola (Cattle feed) | 0.0930 |
| 12 | 1541 | Croison | 0.2990 |
| 13 | 1541 | Cakes, pastries & muffins | 0.1990 |
| 14 | 1541 | Bakery products, n. e. c. | 0.1260 |
| 15 | 1542 | Sugar, refined (incl. sugar cubes) | 0.4930 |
| 16 | 1542 | Molasses | 0.1030 |
| 17 | 1543 | Chocolate | 7.8650 |
| 18 | 1544 | Food products, n. e. c. | 21.6160 |
| 19 | 1549 | Cashew kernels | 2.0310 |
| 20 | 1551 | Alcohol/liquor, (IMFL) - blended | 2.8660 |
| 21 | 1551 | Rectified spirit | 1.2340 |
| 22 | 1551 | Liquor/alcohol/spirit, n. e. c. | 0.2350 |
| 23 | 1551 | Liquor, country, n. e. c. | 0.0980 |
| 24 | 1552 | Wines, still | 0.2220 |
| 25 | 1553 | Beer | 5.0180 |
| 26 | 1553 | Alcohol/liquor, (IMFL) - malted but not blended | 0.5620 |
| 27 | 1554 | Soft drinks, soda based | 2.8650 |
| 28 | 1554 | Water & water based items (non clinical) n. e. c. | 0.4260 |
| Total | | | 51.842 |

| 17. Manufacture of Textiles | | | |
|--|------|--|----------------|
| 29 | 1711 | Yarn, polyester | 0.0524 |
| 30 | 1721 | Coated cotton fabrics | 0.0862 |
| 31 | 1723 | Net, monofilament of hdpe | 0.1053 |
| 32 | 1723 | Gauge cloth | 0.0493 |
| 33 | 1723 | Fishing twine, nylon | 0.0312 |
| 34 | 1723 | Fishing net | 0.0966 |
| 35 | 1723 | Rope, plastic | 0.0394 |
| 36 | 1729 | Sanitary towel and napkin | 14.4643 |
| 37 | 1729 | Leather cloth, pvc coated | 5.7517 |
| 38 | 1729 | Tape, elastic | 0.7800 |
| Total | | | 21.4564 |
| 18. Manufacture of wearing apparel, dressing and dyeing of fur | | | |
| 39 | 1810 | Dress, Others - cotton | 0.0233 |
| 40 | 1810 | Tops of man-made fabrics excl. acrylic & nylon | 0.0041 |
| 41 | 1810 | Trousers / pants, cotton | 0.0009 |
| 42 | 1810 | Travel bag - cotton | 0.0003 |
| Total | | | 0.0286 |
| 20. Manufacture of wood and of products of wood and cork, except furniture, manufacture of articles of straw and plaiting materials | | | |
| 43 | 2023 | Wooden reel | 0.0354 |
| 44 | 2023 | Wooden parts & articles, n. e. c. | 0.0194 |
| 45 | 2029 | Almirah / cabinets / cupboard, wooden | 0.2018 |
| 46 | 2029 | Laminated sheet (wood) | 0.0008 |
| Total | | | 0.2574 |
| 21. Manufacture of Paper and Paper Products | | | |
| 47 | 2101 | Computer stationery | 0.1025 |
| 48 | 2102 | Boxes, corrugated sheet | 2.0296 |
| 49 | 2102 | Cartons / boxes, paper | 1.0332 |
| 50 | 2109 | Paper, r. c. | 0.2485 |
| 51 | 2109 | Ink, others | 0.0163 |
| Total | | | 3.4301 |
| 22. Publishing, Printing and reproduction of recorded media | | | |
| 52 | 2212 | Newspaper | 3.7309 |
| 53 | 2221 | Wrapper cloth, cotton | 1.1045 |
| 54 | 2221 | Stickers plastic | 0.4660 |
| 55 | 2221 | Paper, press | 0.0824 |
| 56 | 2221 | Greeting cards | 0.0641 |
| 57 | 2221 | Books | 0.0447 |
| 58 | 2221 | Printed materials, n. e. c. | 0.0358 |
| 59 | 2221 | Albums | 0.0171 |
| 60 | 2221 | Paper, pouches | 0.0105 |
| Total | | | 5.5560 |
| 23. Manufacture of coke, refined petroleum products and nuclear fuel | | | |
| 61 | 2310 | Coke, n. e. c. | 53.4733 |
| 62 | 2320 | Gas, liquefied petroleum | 3.0888 |
| 63 | 2320 | Petroleum coke, calcined | 2.5415 |
| Total | | | 59.1036 |

| 24. Manufacture of chemical and chemical products | | | |
|---|------|---|-----------------|
| 64 | 2412 | Chemical fertilizer - all kind | 34.7997 |
| 65 | 2413 | Chemical & allied substances & products, n. e. c. | 6.5872 |
| 66 | 2413 | Dye stuff | 4.5424 |
| 67 | 2413 | Polymers - others | 3.8054 |
| 68 | 2421 | Weedicides, solid | 1.3805 |
| 69 | 2421 | Insecticides, others | 0.9247 |
| 70 | 2422 | Paints, enamels | 4.8767 |
| 71 | 2422 | Epoxy powder | 2.2792 |
| 72 | 2422 | Paints, plastic emulsion | 2.1960 |
| 73 | 2423 | Medicament & preparations, n. e. c. | 163.3554 |
| 74 | 2423 | Cefloxacin& preparation thereof | 43.3518 |
| 75 | 2423 | Antibiotics & preparation thereof, n. e. c. | 23.4511 |
| 76 | 2423 | Health care products | 20.9116 |
| 77 | 2423 | Vitamins in tablet or injectable form, n. e. c. | 6.7597 |
| 78 | 2423 | Syrup flavored or not | 6.1664 |
| 79 | 2423 | Vitamin E (tocopherol) | 2.9251 |
| 80 | 2423 | Medicated tape (band aid etc.) | 1.6604 |
| 81 | 2423 | Pharmaceutical products, n. e. c. | 1.5508 |
| 82 | 2424 | Soap, toilet (excl. baby soap) | 41.4995 |
| 83 | 2424 | Tooth paste | 13.9282 |
| 84 | 2429 | Essence, sandal wood oil | 2.2368 |
| 85 | 2429 | Film (photo) - unexposed in roll - colour | 20.4742 |
| 86 | 2429 | Film, x-ray, unexposed in plate | 4.9416 |
| 87 | 2429 | Photography, cinematography supplies, n. e. c | 4.6219 |
| 88 | 2429 | Developer (photography) | 1.4193 |
| Total | | | 420.6456 |
| 25. Manufacture of Rubber and Plastic products | | | |
| 89 | 2511 | Tyre / tube, others | 24.974 |
| 90 | 2511 | Flaps, rubber | 0.5779 |
| 91 | 2520 | Bag, hdpe | 8.0424 |
| 92 | 2520 | Plastic bag | 0.2805 |
| 93 | 2520 | Bag, polyethelene | 0.2529 |
| 94 | 2520 | Components, plastic | 6.3230 |
| 95 | 2520 | Pipe, plastic / pvc (non conduit) | 5.4110 |
| 96 | 2520 | Tube, laminated | 3.3334 |
| 97 | 2520 | Vessels / tanks for pharma. Industry | 2.0613 |
| 98 | 2520 | Tubes, glass | 1.0989 |
| Total | | | 52.3553 |
| 26. Manufacture of other non-metallic mineral products | | | |
| 99 | 2610 | Fibre glass sheet / board | 4.3587 |
| 100 | 2610 | Pressure vessels & tanks | 6.0599 |
| 101 | 2610 | Fibre glass & articles thereof, n. e. c. | 0.7721 |
| 102 | 2610 | Chemical equipment & system - others | 0.0663 |
| 103 | 2693 | Mosaic tiles | 0.0096 |
| 104 | 2694 | Cement, portland | 0.5420 |
| 105 | 2695 | Closets | 0.1283 |
| 106 | 2695 | R c c spun pipes | 0.1092 |
| Total | | | 12.0461 |

| 27. Manufacture of Basic Metals | | | |
|---|------|---|----------------|
| 107 | 2711 | Ores, iron | 3.6705 |
| 108 | 2711 | Magnetite | 2.0773 |
| 109 | 2712 | Ingot, iron /steel | 25.7685 |
| 110 | 2713 | Pig iron | 11.4258 |
| 111 | 2713 | Scrap, iron /steel | 0.3245 |
| 112 | 2714 | M.S. flats & sheets | 8.0556 |
| 113 | 2714 | Iron / steel filling | 3.6748 |
| 114 | 2714 | Manganese, silica | 2.7726 |
| 115 | 2715 | M.S. bars & rods angles / plates / square | 1.8125 |
| 116 | 2715 | Bar, rods & rounds, iron / steel | 1.2536 |
| 117 | 2720 | Copper alloy rolled products | 6.8857 |
| 118 | 2720 | Bronze ingot | 0.1187 |
| 119 | 2720 | Sheets / strips, rods, brass | 2.1848 |
| 120 | 2720 | Tubes, collapsible aluminium | 0.0729 |
| 121 | 2720 | Zinc oxide | 0.2817 |
| 122 | 2720 | Cobalt | 0.4930 |
| 123 | 2731 | Castings & forging, iron / steel | 1.7352 |
| Total | | | 72.6077 |
| 28. Manufacture of fabricated metal products, except machinery and equipment | | | |
| 124 | 2811 | Aluminium & aluminium alloys worked, n. e. c. | 0.1311 |
| 125 | 2891 | Metal cutting tools & accessories | 0.0950 |
| 126 | 2891 | General purpose machinery / tools, components, n. e. c. | 0.0432 |
| 127 | 2891 | Electrical equipment & parts, n. e. c. | 0.0334 |
| 128 | 2892 | Anodized products - others | 2.0931 |
| 129 | 2892 | Metallurgical machinery | 1.0992 |
| 130 | 2893 | Lock clamp & brush | 0.4189 |
| 131 | 2893 | Keys, chains & rings | 0.0967 |
| 132 | 2893 | Ferrule | 0.0462 |
| 133 | 2893 | Diamond, industrial products | 1.2508 |
| 134 | 2893 | Tungsten wire | 1.2048 |
| 135 | 2893 | Diamond tools | 1.0812 |
| 136 | 2893 | Tools | 0.9832 |
| 137 | 2893 | Handles plated | 0.4297 |
| 138 | 2893 | Blades, saw excl. hacksaw | 0.2089 |
| 139 | 2893 | Nuts, bolts, screw & washers, iron / steel | 0.1116 |
| 140 | 2893 | Diamond rough | 0.0969 |
| 141 | 2893 | Diamond powder | 0.0362 |
| 142 | 2893 | Head clamps | 0.0313 |
| 143 | 2899 | Metal detectors | 0.1717 |
| Total | | | 9.6631 |
| 29. Manufacture of machinery & equipment n.e.c | | | |
| 144 | 2912 | Vessels, vats, steel | 0.6771 |
| 145 | 2912 | Clamps, iron / steel | 0.1701 |
| 146 | 2913 | Bush, metal - others | 0.2004 |
| 147 | 2915 | Roller for conveyor | 0.1192 |
| 148 | 2919 | Refrigerators ex. Deep freezer | 0.0769 |
| 149 | 2919 | Weighing scales | 1.9930 |

| | | | |
|--|------|--|----------------|
| 150 | 2919 | Scrap, rubber | 0.0811 |
| 151 | 2924 | Hose pipe / pipe set | 0.5530 |
| 152 | 2926 | Washing machines / laundry mach. | 4.0864 |
| 153 | 2926 | Micro oven | 0.6674 |
| 154 | 2926 | Spares, agricultural machinery - others | 0.3570 |
| 155 | 2926 | Can washers | 0.3123 |
| 156 | 2926 | Machinery, others | 0.1542 |
| 157 | 2929 | Moulds& dies, metal | 0.2336 |
| 158 | 2930 | Fan, ceiling | 4.0585 |
| 159 | 2930 | Fan, pedestal | 0.4286 |
| 160 | 2930 | Iron, electric | 0.1888 |
| 161 | 2930 | Electric toasters | 0.0366 |
| 162 | 2930 | Water filters, plastic | 0.2618 |
| Total | | | 14.6560 |
| 30. Manufacture of office, accounting and computing machinery | | | |
| 163 | 3000 | Automation system | 3.7978 |
| 164 | 3000 | Computers other than pc | 1.3226 |
| 165 | 3000 | Computer (p. c.) | 12.2419 |
| 166 | 3000 | Mother board | 3.1343 |
| 167 | 3000 | Computer peripherals | 1.2238 |
| 168 | 3000 | Computer / parts / peripherals n. e. c. | 1.0754 |
| 169 | 3000 | Electronic components & parts, n. e. c. | 0.1327 |
| 170 | 3000 | Ian card (e. g. ethernet card) | 0.1317 |
| Total | | | 23.0602 |
| 31. Manufacture of electrical machinery and apparatus n.e.c. | | | |
| 171 | 3110 | A. c. motors | 2.5016 |
| 172 | 3110 | Electric motor starters | 1.8720 |
| 173 | 3120 | Control panel | 0.0358 |
| 174 | 3130 | Insulating & flexible wires | 2.9217 |
| 175 | 3130 | Cable, jelly filled | 2.8892 |
| 176 | 3130 | xlpe cable | 2.2750 |
| 177 | 3130 | Fibre optic cable | 1.9731 |
| 178 | 3130 | Telephone dials | 0.9144 |
| 179 | 3130 | Connectors / plugs /sockets holders - electric | 0.8954 |
| 180 | 3130 | Coil springs, copper | 0.7117 |
| 181 | 3130 | Telephony/transmission equipment & parts, n.e.c. | 0.6650 |
| 182 | 3130 | Lamps / fittings / etc. n. e. c. | 0.6266 |
| 183 | 3130 | Scrap / waste, metal - others | 0.0888 |
| 184 | 3130 | Cable jointing kits | 0.0849 |
| 185 | 3140 | Battery plate | 0.2455 |
| 186 | 3190 | Electrical steel & lamination | 0.1621 |
| Total | | | 18.8628 |
| 32. Manufacture of radio, television, and communication equipment and apparatus | | | |
| 187 | 3210 | Rod, glass | 0.1676 |
| 188 | 3210 | Capacitors, mica | 0.5447 |
| 189 | 3210 | Power capacitors | 0.1777 |
| 190 | 3210 | Capacitor, metalised poly. Film | 0.1285 |
| 191 | 3210 | Resistance / resistor | 0.0148 |
| 192 | 3210 | Printed circuit plate / board (pcb) | 1.2511 |

| | | | |
|--|------|--|----------------|
| 193 | 3220 | Radio | 0.3539 |
| 194 | 3220 | Stereo head phone | 0.1174 |
| 195 | 3220 | Car cassette players | 0.0105 |
| 196 | 3220 | Telephones receiver | 0.7297 |
| 197 | 3220 | Trans receiver set, all types | 0.4250 |
| 198 | 3230 | T. V. set (b / w) | 0.0462 |
| 199 | 3230 | T. V. set (colour) | 0.0297 |
| 200 | 3230 | V, C. D. | 0.0027 |
| Total | | | 3.9995 |
| 33. Manufacture of medical, precision and optical instruments, watches and clocks | | | |
| 201 | 3311 | X - ray equipment | 3.9379 |
| 202 | 3311 | Fabricated products, others | 0.7855 |
| 203 | 3311 | H I V testing kits | 0.3599 |
| 204 | 3311 | Medical / bio - medical / lab. Machines n.e.c. | 0.1412 |
| 205 | 3312 | Process combat instruments | 0.4910 |
| 206 | 3313 | control equipment | 1.0864 |
| 207 | 3313 | Transmitters (not for radio broadcast) | 0.5361 |
| 208 | 3313 | Thermometer, dry bulb | 0.1052 |
| 209 | 3313 | Test production | 0.0978 |
| 210 | 3313 | Pressure & vacuum gauges | 0.0394 |
| 211 | 3313 | Heating / cooling electric equipment, n. e. c. & parts | 0.0275 |
| 212 | 3320 | Lens, ophthalmic | 3.9436 |
| 213 | 3320 | Glass, blank, ophthalmic | 1.7224 |
| 214 | 3320 | Spectacle fitted with lens | 0.5213 |
| 215 | 3320 | Camera, still | 0.1980 |
| 216 | 3320 | Projectors, others | 0.0978 |
| 217 | 3330 | Watch, quartz | 3.9356 |
| 218 | 3330 | Cases, watch | 1.9689 |
| 219 | 3330 | Straps, stainless steel | 0.4315 |
| 220 | 3330 | Straps, leather | 0.0446 |
| Total | | | 20.4716 |
| 34. Manufacture of motor vehicles, trailers and semi-trailers | | | |
| 221 | 3410 | Mini bus body | 4.6526 |
| 222 | 3410 | Motor vehicle, others & parts, n. e. c. | 2.4592 |
| 223 | 3410 | Motor car, diesel drvn. Complete - imported, assembled | 0.0362 |
| 224 | 3420 | Body for other vehicles | 0.1778 |
| 225 | 3420 | Seat assembly, rubber | 0.1535 |
| 226 | 3430 | .Machine tool & accessories - others | 0.5029 |
| Total | | | 7.9822 |
| 35. Manufacture of other transport equipment | | | |
| 227 | 3511 | Barges excl. hopper | 3.4134 |
| 228 | 3511 | Ships, boats & other vessels, n. e. c. | 0.1750 |
| 229 | 3511 | Boat, wooden with engine | 0.0538 |
| 230 | 3511 | trawlers - fishing - motorized | 0.0117 |
| Total | | | 3.6539 |
| 36. Manufacture of furniture, manufacturing n.e.c. | | | |
| 231 | 3610 | Tables & desks, iron / steel | 0.0646 |
| 232 | 3610 | Chair, metal | 0.0591 |
| 233 | 3610 | Fabricated metal products | 0.0189 |

| | | | |
|---|------|---|-----------------|
| 234 | 3610 | Furniture, aluminium | 0.0138 |
| 235 | 3610 | Chair, steel | 0.0129 |
| 236 | 3691 | Jewellery / ornament, gold - others | 0.4409 |
| 237 | 3694 | Toys, plastic moulded - others | 0.7610 |
| 238 | 3694 | Toys, electrical / electronic - others | 0.4046 |
| 239 | 3699 | Dot pen with refill | 1.0436 |
| 240 | 3699 | Refill, ball / dot pen | 0.3132 |
| 241 | 3699 | Pen, marker | 0.3019 |
| 242 | 3699 | Stationary / all purpose items - n. e. c. | 0.0812 |
| 243 | 3699 | Tooth brush | 0.5530 |
| Total | | | 4.0687 |
| C)Total (MANUFACTURING SECTOR) | | | 805.7468 |
| Grand Total (A+B+C) (Electricity + Mining + Manufacturing) | | | 1000.00 |

CHAPTER IV
INDEX OF INDUSTRIAL PRODUCTION

1. ESTIMATION PROCEDURE

The index of Industrial production on new base 2004-05 has been computed by using laspeyre's formula. It is a simple weighted arithmetic mean as given below

$$I = \frac{\sum W_i R_i}{\sum W_i}$$

Where,

I -the Index of Industrial Production

R_i -the production relative for the i-th item and

W_i - the corresponding weight

2. COMBINED INDEX

a) Sector Level and Combined Annual Indices

The sector level and combined annual indices for the years 2010-11 up to 2013-14 covering 3 sectors namely Electricity, Mining and Manufacturing are given in Table 8. This table also gives the combined index of the three sectors. It may be observed that, the Manufacturing sector carries the highest weight of 805.75, followed by Mining sector with a weight of 136.82 and Electricity sector with 57.43. It may also be seen that, in comparison to the previous year 2012-13, the index of Industrial production for the year 2013-14 in respect of Mining and Manufacturing sector has reduced by 78.69 and 9.12 points respectively due to closure of Mining Industries and closure of about 35% of Manufacturing Industries. while the index of Industrial production in respect of Electricity sector has increased by 5.36 points. However, the combined Index of all the 3 sectors has fallen by 17.81 points during 2013-14 over the previous year 2012-13.

TABLE 8
INDEX OF INDUSTRIAL PRODUCTION
SECTOR LEVEL AND COMBINED ANNUAL INDICES
(BASE 2004-05=100)

| Sl. No. | Industrial Sector | Weight | Index | | | |
|-----------------------|-------------------|----------------|---------------|---------------|---------------|---------------|
| | | | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| 1 | Electricity | 57.43 | 87.00 | 82.47 | 67.06 | 72.42 |
| 2 | Mining | 136.82 | 265.96 | 245.65 | 79.37 | 0.68 |
| 3 | Manufacturing | 805.75 | 85.59 | 105.60 | 115.66 | 106.54 |
| Combined Index | | 1000.00 | 110.35 | 123.43 | 107.90 | 90.09 |

b) Sector Level and Combined Monthly Indices for the year 2013-14

The sector level monthly indices for the three sectors and combined monthly indices for the year 2013-14 are given in Table 9. It may be observed that the combined Index of all the three sectors is considerably higher in the month of January in comparison to the rest of months.

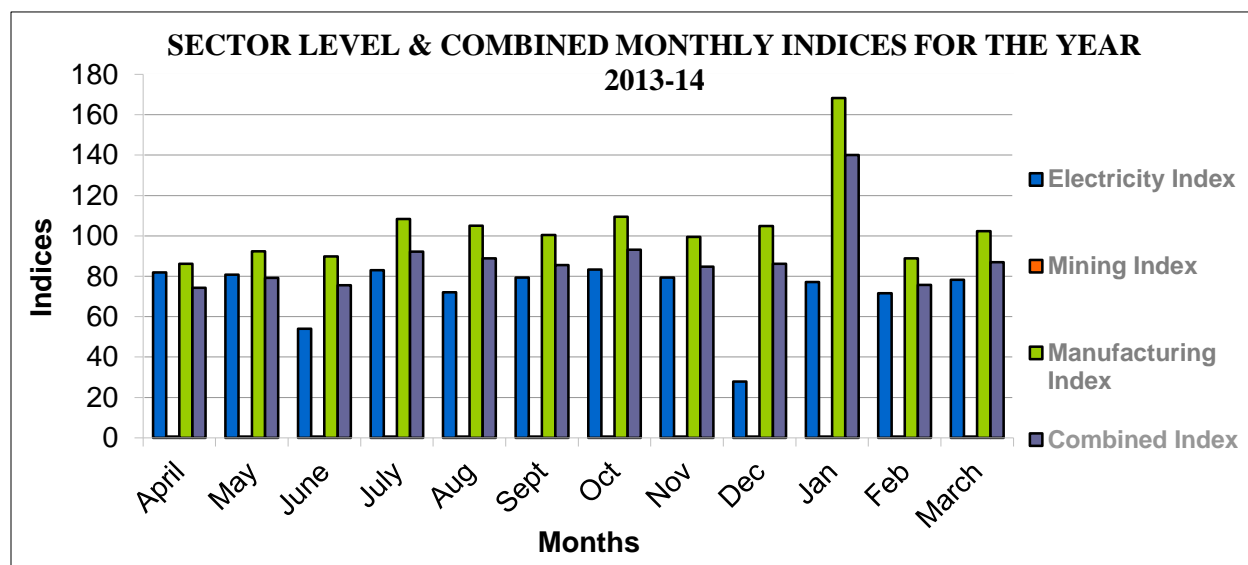


TABLE 9
INDEX OF INDUSTRIAL PRODUCTION
SECTOR LEVEL AND COMBINED MONTHLY INDICES FOR THE YEAR 2013-14
(BASE 2004-05=100)

| Sl. No. | Industrial Sector | Weight | 2013-14 | | | | | | | | | | | |
|-----------------------|---------------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|
| | | | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | March |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 1 | Electricity Index | 57.43 | 81.97 | 80.86 | 54.04 | 83.04 | 72.04 | 79.40 | 83.36 | 79.44 | 27.90 | 77.19 | 71.54 | 78.29 |
| 2 | Mining Index | 136.82 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 |
| 3 | Manufacturing Index | 805.75 | 87.47 | 93.68 | 91.82 | 110.30 | 107.65 | 102.24 | 111.40 | 101.48 | 107.31 | 170.32 | 90.75 | 104.01 |
| Combined Index | | 1000.00 | 75.28 | 80.22 | 77.18 | 93.74 | 90.97 | 87.03 | 94.64 | 86.42 | 88.16 | 141.76 | 77.32 | 88.39 |

3. ELECTRICITY SECTOR

This sector is covered in the NIC 2004 under Division 40; Electricity, Gas, Steam and Water supply. There is only one item covered under this sector i.e. Generation of Electricity. The Index of Industrial Production at 2-digit level and 4-digit level of NIC for the years 2010-11 to 2013-14 is given in Table 10 below. It may be observed from the table that the index of the Electricity sector has **increased by 5.36** points over the previous year 2012-13.

TABLE 10
INDEX OF INDUSTRIAL PRODUCTION
ELECTRICITY SECTOR (GROUP / ITEM LEVEL ANNUAL INDICES)
(BASE 2004-05=100)

| Sl. No. | Item Code | NIC Code & Electricity Group / Item Description | Weight | Index | | | |
|---------------------------------|-----------|---|--------------|--------------|--------------|--------------|--------------|
| | | | | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 4010 | Generation of Electricity | 57.43 | 87.00 | 82.47 | 67.06 | 72.42 |
| 1 | 40 | Electricity, Gas, Steam and water supply | 57.43 | 87.00 | 82.47 | 67.06 | 72.42 |
| ELECTRICITY SECTOR INDEX | | | 57.43 | 87.00 | 82.47 | 67.06 | 72.42 |

4. MINING SECTOR

a) Mining Sector Group Level Annual Indices

The group level annual indices in the Mining Sector for the years 2010-11 to 2013-14 are given in Table 11. It may be observed from the table that the index related to mining of metal ores has drastically reduced by 78.69 points over the previous year 2012-13.

TABLE 11
INDEX OF INDUSTRIAL PRODUCTION
MINING SECTOR (GROUP LEVEL ANNUAL INDICES)
(BASE 2004-05=100)

| Sl. No. | Item Code | NIC Code & Mining Group Description | Weight | Index | | | |
|----------------------------|-----------|-------------------------------------|---------------|---------------|---------------|--------------|-------------|
| | | | | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 1 | 13. | Mining of Metal Ores | 136.82 | 265.96 | 245.65 | 79.37 | 0.68 |
| MINING SECTOR INDEX | | | 136.82 | 265.96 | 245.65 | 79.37 | 0.68 |

b) Mining Sector Month-wise Group Level Indices: The month-wise group level indices in respect of Mining Sector for the year 2013-14 are given in Table 12. It may be observed that the index is almost Zero due to closure of mining industries.

TABLE 12
INDEX OF INDUSTRIAL PRODUCTION
MINING SECTOR MONTHWISE GROUP LEVEL INDICES FOR THE YEAR 2013-14

(BASE 2004-05=100)

| Sl. No. | NIC Code & Mining Group Description | Weight | Year 2013-14 | | | | | | | | | | | | Average |
|----------------------------|-------------------------------------|---------------|--------------|------|------|------|------|------|------|------|------|------|------|------|---------|
| | | | April | May | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | 13. Mining of Metal Ore | 136.82 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 |
| MINING SECTOR INDEX | | 136.82 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 |

c) Mining Sector Product Level Annual Indices:

The product level annual indices in respect of Mining Sector for the years 2010-11 onwards upto 2013-14 is given in Table 13. It may be noted that the Group 13: Mining of Metal Ores has three items i.e. iron ore, Manganese ore and Bauxite, which are drastically reduced to almost zero over the previous year 2012-13.

TABLE 13
INDEX OF INDUSTRIAL PRODUCTION
MINING SECTOR (PRODUCT LEVEL ANNUAL INDICES)
(BASE 2004-05=100)

| Sl. No. | Item Code | NIC Code & Mining Group Description | Weight | Index | | | |
|---------------------------------|-----------|-------------------------------------|---------------|---------------|---------------|--------------|-------------|
| | | | | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 13. Mining of Metal Ores | | | 136.82 | 265.96 | 245.65 | 79.37 | 0.68 |
| 1 | 1310 | Mining of Iron Ore | 136.6648 | 266.11 | 245.80 | 79.33 | 0.00 |
| 2 | 1320 | Mining of Manganese Ore | 0.0312 | 4.62 | 12.92 | 1.67 | 0.00 |
| 3 | 1320 | Mining of Bauxite | 0.1262 | 168.33 | 141.17 | 145.33 | 0.00 |

5. MANUFACTURING SECTOR

a) Manufacturing Sector Group Level Annual Indices

The group level annual indices in respect of Manufacturing Sector for the years 2010-11 to 2013-14 are given in Table 14. It may be observed that, within the manufacturing sector, Group 24: Manufacture of Chemicals and Chemical products carries a significant weight of 420.65, followed by Group 23: manufacture of coke, refined petroleum products and nuclear fuel (59.10), Group 25: Manufacture of rubber and plastic products (52.36) and Group 15: manufacture of food products and beverages (51.84). It may also be noted that Group 18: manufacture of wearing apparel, dressing and dyeing of fur carries the least weight of (0.03) followed by Group 20: manufacture of wood, and of products of wood and cork, except furniture, manufacture of articles of straw and plaiting materials (0.26).

It may be seen from Table 14, that the Group 17: Manufacture of other non-metallic mineral product has registered the highest growth in the index by 953.95 points over the previous year 2012-13. The other 2-Digit group 26: that have registered an increasing trend in Manufacture of other non-metallic products by 369.66 during 2013-14 over the previous year. Group 23: Manufacture of coke, refined petroleum product nuclear fuel (96.03), Group 29: Manufacture

of machinery and equipment n.e.c. (117.69), Group 30: Manufacture of office, accounting and computing machinery(73.63), Group 34: Manufacture of motor vehicles, trailers and semi trailers (67.03), The Index of Industrial Production in respect of the fourteen remaining 2- Digit groups in the manufacture sector has shown a decline during 2013-14 over the previous year 2012-13.

TABLE 14
INDEX OF INDUSTRIAL PRODUCTION
MANUFACTURING SECTOR (GROUP LEVEL ANNUAL INDICES)

(BASE 2004-05=100)

| Sl. No. | NIC code | Manufacturing group description | weight | Index | | | |
|-----------------------------------|----------|--|---------------|--------------|---------------|---------------|---------------|
| | | | | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| 1 | 15 | Manufacture of Food Products and beverages | 51.84 | 166.82 | 191.93 | 247.29 | 222.43 |
| 2 | 17 | Manufacture of Textiles | 21.46 | 644.18 | 815.41 | 795.20 | 953.95 |
| 3 | 18 | Manufacture of wearing apparel, dressing and dyeing of fur | 0.03 | 93.06 | 69.76 | 67.73 | 0.00 |
| 4 | 20 | Manufacture of wood and products of wood and cork, except furniture, manufacture of articles of straw and plaiting materials | 0.26 | 78.63 | 105.07 | 104.71 | 102.37 |
| 5 | 21 | Manufacture of Paper and Paper Products | 3.43 | 61.20 | 109.05 | 110.50 | 63.56 |
| 6 | 22 | Publishing, Printing and reproduction of recorded media | 5.56 | 92.53 | 91.43 | 85.84 | 49.67 |
| 7 | 23 | Manufacture of coke, refined petroleum products and nuclear fuel | 59.10 | 66.08 | 64.40 | 80.16 | 96.03 |
| 8 | 24 | Manufacture of Chemicals and Chemical products | 420.65 | 61.30 | 56.15 | 59.23 | 54.32 |
| 9 | 25 | Manufacture of Rubber and Plastic products | 52.36 | 36.83 | 199.84 | 330.42 | 175.42 |
| 10 | 26 | Manufacture of other non-metallic mineral product | 12.05 | 81.57 | 139.23 | 357.44 | 369.66 |
| 11 | 27 | Manufacture of Basic Metals | 72.61 | 57.13 | 51.40 | 38.25 | 35.57 |
| 12 | 28 | Manufacture of fabricated metal products, except machinery and equipment | 9.67 | 148.49 | 217.22 | 226.17 | 200.02 |
| 13 | 29 | Manufacture of machinery & equipment n.e.c. | 14.66 | 118.51 | 129.29 | 115.81 | 117.69 |
| 14 | 30 | Manufacture of office, accounting and computing machinery | 23.06 | 83.99 | 240.57 | 41.90 | 73.63 |
| 15 | 31 | Manufacture of electrical machinery and apparatus n.e.c. | 18.86 | 55.38 | 56.32 | 54.18 | 47.91 |
| 16 | 32 | Manufacture of radio, television, and communication equipment and apparatus | 4.00 | 115.83 | 122.54 | 111.72 | 83.14 |
| 17 | 33 | Manufacture of medical, precision and optical instruments, watches and clocks | 20.47 | 48.09 | 72.72 | 66.11 | 64.50 |
| 18 | 34 | Manufacture of motor vehicles, trailers and semi trailers | 7.98 | 110.80 | 32.56 | 15.64 | 67.03 |
| 19 | 35 | Manufacture of other transport equipment | 3.65 | 36.61 | 69.19 | 60.79 | 9.35 |
| 20 | 36 | Manufacture of furniture, manufacturing n.e.c. | 4.07 | 91.12 | 81.85 | 92.76 | 22.01 |
| Manufacturing Sector Index | | | 805.75 | 85.59 | 105.60 | 115.66 | 106.54 |

b) Manufacturing Sector Month-wise Group Level Indices

The month-wise group level indices in respect of Manufacturing Sector for the year 2013-14 are given in Table 15. It may be observed that the index was reasonably high during the months of January in comparison with the other months.

TABLE- 15
INDEX OF INDUSTRIAL PRODUCTION
MANUFACTURING SECTOR (MONTH-WISE GROUP LEVEL INDICES FOR THE YEAR 2013-14)
(BASE 2004-05=100)

| NIC code | Manufacturing group description | April | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Jan. | Feb. | March | Average |
|-----------------|---|--------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|----------------|
| 15 | Manufacture of Food Products and beverages | 213.29 | 210.09 | 198.93 | 243.62 | 284.12 | 219.51 | 274.82 | 204.92 | 213.99 | 234.19 | 177.02 | 194.61 | 222.43 |
| 17 | Manufacture of Textiles | 795.40 | 884.69 | 887.33 | 940.18 | 1012.41 | 941.33 | 964.89 | 1035.92 | 1058.63 | 861.74 | 965.45 | 1099.46 | 953.95 |
| 18 | Manufacture of wearing apparel, dressing and dyeing of fur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | Manufacture of wood and of products of wood and cork, except furniture, manufacture of articles of straw and plaiting materials | 141.36 | 125.08 | 24.01 | 105.58 | 98.85 | 80.14 | 105.69 | 115.13 | 126.90 | 124.29 | 87.05 | 94.43 | 102.37 |
| 21 | Manufacture of Paper and Paper Products | 70.10 | 66.20 | 67.93 | 65.43 | 66.06 | 63.26 | 70.09 | 59.25 | 58.11 | 62.68 | 55.89 | 57.66 | 63.56 |
| 22 | Publishing, Printing and reproduction of recorded media | 52.57 | 52.32 | 52.99 | 56.24 | 51.37 | 46.59 | 57.52 | 54.44 | 54.77 | 44.89 | 33.12 | 39.19 | 49.67 |
| 23 | Manufacture of coke, refined petroleum products and nuclear fuel | 79.23 | 80.55 | 79.73 | 89.13 | 82.45 | 77.96 | 109.68 | 108.87 | 111.27 | 114.98 | 98.96 | 119.56 | 96.03 |
| 24 | Manufacture of Chemicals and Chemical products | 38.53 | 44.19 | 42.92 | 56.06 | 48.93 | 44.43 | 48.19 | 36.93 | 45.36 | 178.01 | 32.99 | 35.26 | 54.32 |
| 25 | Manufacture of Rubber and Plastic products | 176.43 | 168.30 | 183.90 | 192.70 | 199.33 | 164.14 | 163.72 | 156.51 | 176.28 | 179.30 | 167.69 | 176.71 | 175.42 |
| 26 | Manufacture of other non-metallic mineral products | 235.54 | 282.27 | 23.48 | 510.81 | 235.03 | 527.02 | 633.71 | 585.20 | 415.04 | 329.58 | 329.13 | 329.11 | 369.66 |
| 27 | Manufacture of Basic Metals | 33.35 | 34.56 | 36.44 | 31.60 | 37.08 | 37.83 | 35.70 | 37.47 | 34.64 | 39.59 | 34.27 | 34.13 | 35.56 |
| 28 | Manufacture of fabricated metal products, except machinery and equipment | 189.75 | 188.03 | 175.62 | 209.52 | 202.20 | 200.68 | 195.29 | 196.16 | 204.06 | 207.16 | 193.75 | 238.06 | 200.02 |
| 29 | Manufacture of machinery & equipment n.e.c. | 110.65 | 117.31 | 124.07 | 117.53 | 111.98 | 110.58 | 135.45 | 121.14 | 100.67 | 126.38 | 116.68 | 119.89 | 117.69 |

| NIC code | Manufacturing group description | April | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Jan. | Feb. | March | Average |
|-----------------------------------|---|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|----------------|
| 30 | Manufacture of office, accounting and computing machinery | 24.83 | 17.20 | 100.32 | 59.24 | 59.47 | 107.97 | 82.62 | 60.92 | 137.42 | 35.45 | 54.38 | 143.69 | 73.63 |
| 31 | Manufacture of electrical machinery and apparatus n.e.c. | 31.37 | 39.95 | 43.60 | 44.46 | 56.54 | 47.03 | 43.99 | 41.89 | 44.93 | 53.86 | 59.10 | 68.21 | 47.91 |
| 32 | Manufacture of radio, television, and communication equipment and apparatus | 83.10 | 83.11 | 83.29 | 83.10 | 83.10 | 83.10 | 83.10 | 83.10 | 83.10 | 83.10 | 83.37 | 83.12 | 83.14 |
| 33 | Manufacture of medical, precision and optical instruments, watches and clocks | 51.42 | 66.77 | 57.75 | 61.67 | 57.08 | 71.69 | 58.24 | 75.20 | 55.83 | 71.35 | 54.39 | 92.64 | 64.50 |
| 34 | Manufacture of motor vehicles, trailers and semi trailers | 40.57 | 56.51 | 59.16 | 48.68 | 90.56 | 65.44 | 52.49 | 82.01 | 92.20 | 81.87 | 51.50 | 83.34 | 67.03 |
| 35 | Manufacture of other transport equipment | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112.22 | 9.35 |
| 36 | Manufacture of furniture, manufacturing n.e.c. | 16.12 | 35.58 | 32.53 | 44.28 | 16.25 | 12.75 | 27.87 | 11.47 | 8.67 | 15.28 | 13.17 | 30.12 | 22.01 |
| MANUFACTURING SECTOR INDEX | | 87.47 | 93.68 | 91.82 | 110.30 | 107.65 | 102.24 | 111.40 | 101.48 | 107.31 | 170.32 | 90.75 | 104.01 | 106.54 |

c) Manufacturing Sector Product Level Annual Indices

The product level annual indices in respect of Manufacturing Sector under different 2-Digit groups for the years 2010-11 upto 2013-14 are given in Table 16 below:

TABLE 16
INDEX OF INDUSTRIAL PRODUCTION
MANUFACTURING SECTOR (PRODUCT LEVEL ANNUAL INDICES)
(BASE 2004-05 = 100)

| Sr. No. | Item Code | Item Description | Weight | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
|---|-----------|---|---------|---------|---------|---------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 15. Manufacture of Food Products & Beverages | | | | | | | |
| 1 | 1511 | i) Meat (all types) canned | 0.5630 | 8.67 | 9.41 | 6.26 | 9.40 |
| 2 | 1512 | ii) Fish (all types) canned | 0.3900 | 0.70 | 155.26 | 149.26 | 0.32 |
| 3 | 1512 | iii) Shrimps processed | 0.5420 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 1512 | iv) Fish frozen | 0.2590 | 196.95 | 194.70 | 442.24 | 415.59 |
| 5 | 1514 | v) Oil, copra | 2.2300 | 33.86 | 99.44 | 150.75 | 22.59 |
| 6 | 1514 | vi) Oil-cake, Coconut | 0.0820 | 29.95 | 84.98 | 133.88 | 20.40 |
| 7 | 1514 | vii) Oil, palm | 0.0550 | 89.05 | 171.72 | 133.88 | 0.00 |
| 8 | 1520 | viii) Milk, skimmed or pasteurized, non-flavoured | 1.2550 | 63.72 | 63.56 | 61.62 | 65.17 |
| 9 | 1520 | ix) Ice candy | 0.0790 | 5.75 | 7.89 | 7.96 | 0.000 |
| 10 | 1531 | x) Maida | 0.0360 | 640.33 | 893.79 | 900.85 | 925.36 |
| 11 | 1533 | xi) Gola (Cattle feed) | 0.0930 | 106.99 | 116.01 | 129.47 | 152.38 |
| 12 | 1541 | xii) Croison | 0.2990 | 0.01 | 0.00 | 0.00 | 0.00 |
| 13 | 1541 | xiii) Cakes, pastries & muffins | 0.1990 | 34.85 | 41.77 | 47.95 | 12.67 |
| 14 | 1541 | xiv) Bakery products, n. e. c. | 0.1260 | 174.58 | 305.10 | 341.02 | 187.44 |
| 15 | 1542 | xv) Sugar, refined (incl. sugar cubes) | 0.4930 | 140.03 | 113.70 | 108.21 | 133.40 |
| 16 | 1542 | xvi) Molasses | 0.1030 | 33.35 | 27.24 | 25.80 | 29.73 |
| 17 | 1543 | xvii) Chocolate | 7.8650 | 270.62 | 274.21 | 273.51 | 277.39 |
| 18 | 1544 | xviii) Food products, n. e. c. | 21.6160 | 194.96 | 245.09 | 361.95 | 374.25 |
| 19 | 1549 | xix) Cashew kernels | 2.0310 | 27.49 | 26.21 | 26.11 | 32.38 |
| 20 | 1551 | xx) Alcohol/liquor, (IMFL) - blended | 2.8660 | 326.47 | 259.15 | 315.30 | 177.18 |
| 21 | 1551 | xxi) Rectified spirit | 1.2340 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 1551 | xxii) Liquor/alcohol/spirit, n. e. c. | 0.2350 | 605.72 | 929.07 | 601.18 | 0.00 |
| 23 | 1551 | xxiii) Liquor, country, n. e. c. | 0.0980 | 0.00 | 0.00 | 10.95 | 11.20 |
| 24 | 1552 | xiv) Wines, still | 0.2220 | 177.16 | 188.42 | 320.18 | 155.02 |
| 25 | 1553 | xxv) Beer | 5.0180 | 98.87 | 113.91 | 125.16 | 0.95 |
| 27 | 1554 | xxvii) Soft drinks, soda based | 2.8650 | 82.73 | 83.38 | 79.92 | 69.85 |
| 28 | 1554 | xxviii) Water & water based items (non clinical) | 0.4260 | 105.37 | 106.17 | 130.65 | 130.72 |

| 17. Manufacture of Textiles | | | | | | | |
|--|------|--|---------|--------|---------|---------|---------|
| 29 | 1711 | i) Yarn, polyester | 0.0524 | 31.46 | 0.00 | 0.00 | 0.00 |
| 30 | 1721 | ii) Coated cotton fabrics | 0.0862 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 1723 | iii) Net, monofilament of hdpe | 0.1053 | 68.38 | 66.83 | 9.23 | 0.00 |
| 32 | 1723 | iv) Gauge cloth | 0.0493 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 1723 | v) Fishing twine, nylon | 0.0312 | 61.67 | 23.73 | 0.00 | 0.00 |
| 34 | 1723 | vi) Fishing net | 0.0966 | 261.42 | 260.50 | 291.19 | 298.71 |
| 35 | 1723 | vii) Rope, plastic | 0.0394 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 1729 | viii) Sanitary towel and napkin | 14.4643 | 876.68 | 1124.45 | 1100.79 | 1321.02 |
| 37 | 1729 | ix) Leather cloth, pvc coated | 5.7517 | 154.31 | 171.07 | 154.65 | 180.55 |
| 38 | 1729 | x) Tape, elastic | 0.7800 | 282.20 | 278.67 | 287.50 | 380.59 |
| 18. Manufacture of Wearing apparel, dressing & dyeing of fur | | | | | | | |
| 39 | 1810 | i) Dress, Others - cotton | 0.0233 | 85.33 | 60.83 | 52.08 | 0.00 |
| 40 | 1810 | ii) Tops of man-made fabrics excl. acrylic & nylon | 0.0041 | 34.35 | 0.06 | 0.05 | 0.00 |
| 41 | 1810 | iii) Trousers / pants, cotton | 0.0009 | 736.36 | 750.00 | 909.09 | 0.00 |
| 42 | 1810 | iv) Travel bag - cotton | 0.0003 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20. Manufacture of wood & of products of wood & cork, except furniture, manufacture of articles of straw & plaiting materials | | | | | | | |
| 43 | 2023 | i) Wooden reel | 0.0354 | 68.15 | 59.35 | 73.49 | 112.28 |
| 44 | 2023 | ii) Wooden parts & articles, n. e. c. | 0.0194 | 113.20 | 50.44 | 44.37 | 125.75 |
| 45 | 2029 | iii) Almirah / cabinets / cupboard, wooden | 0.2018 | 78.46 | 120.11 | 117.75 | 100.12 |
| 46 | 2029 | iv) Laminated sheet (wood) | 0.0008 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21. Manufacture of Paper & Paper Products | | | | | | | |
| 47 | 2101 | i) Computer stationery | 0.1025 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 2102 | ii) Boxes, corrugated sheet | 2.0296 | 95.93 | 82.72 | 76.57 | 64.35 |
| 49 | 2102 | iii) Cartons / boxes, paper | 1.0332 | 12.27 | 176.75 | 183.18 | 9.09 |
| 50 | 2109 | iv) Paper, r. c. | 0.2485 | 0.00 | 86.95 | 90.86 | 71.00 |
| 51 | 2109 | v) Ink, others | 0.0163 | 0.00 | 117.81 | 720.89 | 3703.03 |
| 22. Publishing, printing & reproduction of recorded media | | | | | | | |
| 52 | 2212 | i) Newspaper | 3.7309 | 137.86 | 136.22 | 127.85 | 48.37 |
| 53 | 2221 | ii) Wrapper cloth, cotton | 1.1045 | 0.00 | 0.00 | 0.00 | 0.00 |
| 54 | 2221 | iii) Stickers plastic | 0.4660 | 0.00 | 0.00 | 0.00 | 205.35 |
| 55 | 2221 | iv) Paper, press | 0.0824 | 0.00 | 0.00 | 0.00 | 0.00 |
| 56 | 2221 | v) Greeting cards | 0.0641 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57 | 2221 | vi) Books | 0.0447 | 0.43 | 0.43 | 2.78 | 0.03 |
| 58 | 2221 | vii) Printed materials, n. e. c. | 0.0358 | 0.00 | 0.00 | 0.00 | 0.00 |
| 59 | 2221 | viii) Albums | 0.0171 | 4.57 | 6.28 | 7.77 | 0.94 |

| | | | | | | | |
|---|------|-------------------------------|---------|--------|--------|--------|--------|
| 60 | 2221 | ix) Paper, pouches | 0.0105 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23. Manufacture of coke, refined petroleum products & nuclear fuel | | | | | | | |
| 61 | 2310 | i) Coke, n. e. c. | 53.4733 | 63.54 | 61.93 | 79.86 | 98.43 |
| 62 | 2320 | ii) Gas, liquefied petroleum | 3.0888 | 119.73 | 124.74 | 124.24 | 118.24 |
| 63 | 2320 | iii) Petroleum coke, calcined | 2.5415 | 54.16 | 43.04 | 32.70 | 18.34 |

| | | | | | | | |
|---|------|---|----------|--------|---------|---------|--------------|
| 24. Manufacture of chemicals & chemical Products | | | | | | | |
| 64 | 2412 | i) Chemical fertilizer - all kind | 34.7997 | 82.82 | 84.89 | 63.08 | 82.0 |
| 65 | 2413 | ii) Chemical & allied substances & products, n. e. c. | 6.5872 | 0.00 | 96.78 | 103.05 | 0.00 |
| 66 | 2413 | iii) Dye stuff | 4.5424 | 0.00 | 0.00 | 0.00 | 0.00 |
| 67 | 2413 | iv) Polymers - others | 3.8054 | 0.00 | 4.57 | 55.22 | 0.00 |
| 68 | 2421 | v) Weedicides, solid | 1.3805 | 3.88 | 9.91 | 7.77 | 6.02 |
| 69 | 2421 | vi) Insecticides, others | 0.9247 | 35.79 | 30.32 | 30.64 | 27.11 |
| 70 | 2422 | vii) Paints, enamels | 4.8767 | 313.08 | 347.54 | 166.11 | 3.97 |
| 71 | 2422 | viii) Epoxy powder | 2.2792 | 624.47 | 802.54 | 707.84 | 718.96 |
| 72 | 2422 | ix) Paints, plastic emulsion | 2.1960 | 116.71 | 100.48 | 413.41 | 0.00 |
| 73 | 2423 | x) Medicament & preparations, n.e.c. | 163.3554 | 38.85 | 41.96 | 49.90 | 27.97 |
| 74 | 2423 | xi) Cefloxacin & preparation thereof | 43.3518 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 2423 | xii) Antibiotics & preparation thereof, n.e.c. | 23.4511 | 313.56 | 28.46 | 24.25 | 17.80 |
| 76 | 2423 | xiii) Health care products | 20.9116 | 0.00 | 0.00 | 0.00 | 0.00 |
| 77 | 2423 | xiv) Vitamins in tablet or injectable form, n.e.c. | 6.7597 | 0.00 | 0.00 | 0.11 | 0.46 |
| 78 | 2423 | xv) Syrup flavoured or not | 6.1664 | 0.19 | 0.32 | 0.77 | 0.00 |
| 79 | 2423 | xvi) Vitamin E (tocopherol) | 2.9251 | 305.42 | 1141.08 | 1394.65 | 2998.50 |
| 80 | 2423 | xvii) Medicated tape (band aid etc.) | 1.6604 | 193.50 | 257.36 | 247.96 | 302.89 |
| 81 | 2423 | xviii) Pharmaceutical products, n.e.c. | 1.5508 | 131.27 | 142.40 | 173.58 | 187.31 |
| 82 | 2424 | xix) Soap, toilet (excl. baby soap) | 41.4995 | 36.23 | 33.90 | 41.85 | 0.00 |
| 83 | 2424 | xx) Tooth paste | 13.9282 | 177.81 | 199.67 | 211.95 | 256.96 |
| 84 | 2429 | xxi) Essence, sandal wood oil | 2.2368 | 0.12 | 0.00 | 0.00 | 0.00 |
| 85 | 2429 | xxii) Film (photo) - unexposed in roll - colour | 20.4742 | 0.00 | 0.00 | 0.00 | 0.00 |
| 86 | 2429 | xxiii) Film, x-ray, unexposed in plate | 4.9416 | 0.00 | 0.00 | 0.00 | 0.00 |
| 87 | 2429 | xxiv) Photography, cinematography supplies, n.e.c | 4.6219 | 120.80 | 113.46 | 61.84 | 36.87 |
| 88 | 2429 | xxv) Developer (photography) | 1.4193 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25. Manufacture of rubber & plastic products | | | | | | | |
| 89 | 2511 | i) Tyre / tube, others | 24.9740 | 36.22 | 275.50 | 298.73 | 306.05 |
| 90 | 2511 | ii) Flaps, rubber | 0.5779 | 88.82 | 88.93 | 97.44 | 97.10 |
| 91 | 2520 | iii) Bag, hdpe | 8.0424 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | 2520 | iv) Plastic bag | 0.2805 | 0.00 | 0.00 | 0.00 | 0.00 |
| 93 | 2520 | v) Bag, polyethelene | 0.2529 | 17.61 | 8.80 | 8.45 | 0.00 |
| 94 | 2520 | vi) Components, plastic | 6.3230 | 40.27 | 395.34 | 1451.65 | 21.02 |
| 95 | 2520 | vii) Pipe, plastic / pvc (non conduit) | 5.4110 | 80.24 | 62.35 | 55.63 | 0.00 |
| 96 | 2520 | viii) Tube, laminated | 3.3334 | 83.89 | 207.82 | 90.63 | 100.93 |
| 97 | 2520 | ix) Vessels / tanks for pharma. Industry | 2.0613 | 0.00 | 0.00 | 0.00 | 0.00 |
| 98 | 2520 | x) Tubes, glass | 1.0989 | 0.00 | 0.00 | 0.00 | 0.00 |

| 26. Manufacture of other non-metallic minerals | | | | | | | |
|---|------|--|---------|----------|----------|---------|----------------|
| 99 | 2610 | i) Fibre glass sheet / board | 4.3587 | 0.00 | 0.00 | 72.47 | 64.91 |
| 100 | 2610 | ii) Pressure vessels & tanks | 6.0599 | 92.79 | 232.38 | 632.23 | 674.44 |
| 101 | 2610 | iii) Fibre glass & articles thereof, n.e.c. | 0.7721 | 269.33 | 106.18 | 26.78 | 0.00 |
| 102 | 2610 | iv) Chemical equipment & system - others | 0.0663 | 18.73 | 0.00 | 0.00 | 0.00 |
| 103 | 2693 | v) Mosaic tiles | 0.0096 | 10779.24 | 10602.23 | 7904.69 | 2913.35 |
| 104 | 2694 | vi) Cement, portland | 0.5420 | 171.58 | 105.02 | 91.74 | 98.31 |
| 105 | 2695 | vii) Closets | 0.1283 | 0.00 | 0.00 | 0.00 | 0.00 |
| 106 | 2695 | viii) R c c spun pipes | 0.1092 | 137.45 | 263.55 | 125.52 | 29.48 |
| 27. Manufacture of basic metals | | | | | | | |
| 107 | 2711 | i) Ores, iron | 3.6705 | 302.97 | 267.53 | 67.35 | 0.00 |
| 108 | 2711 | ii) Magnetite | 2.0773 | 0.00 | 0.00 | 0.00 | 0.00 |
| 109 | 2712 | iii) Ingot, iron /steel | 25.7685 | 26.18 | 25.91 | 26.89 | 21.29 |
| 110 | 2713 | iv) Pig iron | 11.4258 | 85.25 | 72.11 | 71.39 | 111.01 |
| 111 | 2713 | v) Scrap, iron /steel | 0.3245 | 43.10 | 35.95 | 41.45 | 1.25 |
| 112 | 2714 | vi) M s flats & sheets | 8.0556 | 0.00 | 0.00 | 0.00 | 0.00 |
| 113 | 2714 | vii) Iron / steel filling | 3.6748 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 2714 | viii) Manganese, silica | 2.7726 | 51.73 | 52.09 | 47.02 | 45.55 |
| 115 | 2715 | ix) M S bars & rods angles / plates / square | 1.8125 | 35.23 | 35.93 | 22.73 | 22.81 |
| 116 | 2715 | x) Bar, rods & rounds, iron / steel | 1.2536 | 5.94 | 0.00 | 0.00 | 0.00 |
| 117 | 2720 | xi) Copper alloy rolled products | 6.8857 | 62.31 | 42.96 | 29.62 | 30.30 |
| 118 | 2720 | xii) Bronze ingot | 0.1187 | 0.00 | 0.00 | 0.00 | 0.00 |
| 119 | 2720 | xiii) Sheets / strips, rods, brass | 2.1848 | 43.26 | 0.00 | 0.00 | 0.00 |
| 120 | 2720 | xiv) Tubes, collapsible aluminium | 0.0729 | 0.00 | 79.34 | 86.29 | 88.82 |
| 121 | 2720 | xv) Zinc oxide | 0.2817 | 68.89 | 61.07 | 89.35 | 111.54 |
| 123 | 2731 | xvii) Castings & forging, iron / steel | 1.7352 | 102.93 | 92.82 | 104.81 | 111.71 |
| 28. Manufacture of fabricated metal products and equipment | | | | | | | |
| 124 | 2811 | i) Aluminium & aluminium alloys worked, n.e.c. | 0.1311 | 44.63 | 85.15 | 35.21 | 0.00 |
| 125 | 2891 | ii) Metal cutting tools & accessories | 0.0950 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 2891 | iii) General purpose machinery / tools, components, n. e. c. | 0.0432 | 584.77 | 1243.31 | 263.38 | 285.05 |
| 127 | 2891 | iv) Electrical equipment & parts, n. e. c. | 0.0334 | 51.81 | 23.74 | 27.60 | 249.02 |
| 128 | 2892 | v) Anodized products - others | 2.0931 | 94.99 | 188.45 | 294.46 | 205.89 |
| 129 | 2892 | vi) Metallurgical machinery | 1.0992 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 2893 | vii) Lock clamp & brush | 0.4189 | 0.00 | 47.66 | 45.49 | 0.00 |
| 131 | 2893 | viii) Keys, chains & rings | 0.0967 | 0.00 | 2404.51 | 2727.78 | 0.00 |
| 132 | 2893 | ix) Ferrule | 0.0462 | 0.00 | 0.00 | 0.00 | 0.00 |
| 133 | 2893 | x) Diamond, industrial products | 1.2508 | 123.27 | 86.16 | 85.71 | 55.28 |
| 134 | 2893 | xi) Tungsten wire | 1.2048 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 2893 | xii) Diamond tools | 1.0812 | 90.25 | 117.25 | 122.51 | 78.47 |
| 136 | 2893 | xiii) Tools | 0.9832 | 90.48 | 49.66 | 37.83 | 78.14 |
| 137 | 2893 | xiv) Handles plated | 0.4297 | 25.69 | 9.94 | 0.24 | 0 |
| 138 | 2893 | xv) Blades, saw excl. hacksaw | 0.2089 | 89.17 | 83.96 | 88.97 | 63.07 |
| 139 | 2893 | xvi) Nuts, bolts, screw & washers, iron / steel | 0.1116 | 0.00 | 0.00 | 184.65 | 120.19 |
| 140 | 2893 | xvii) Diamond rough | 0.0969 | 8519.96 | 10904.43 | 9853.84 | 12644.48 |
| 141 | 2893 | xviii) Diamond powder | 0.0362 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142 | 2893 | xix) Head clamps | 0.0313 | 204.17 | 53.27 | 0.99 | 0.00 |

| 29. Manufacture of machinery & Equipment, n. e. c. | | | | | | | |
|---|------|--|---------|--------|---------|--------|--------------|
| 143 | 2899 | xx) Metal detectors | 0.1717 | 11.03 | 1.47 | 0.00 | 0.00 |
| 144 | 2912 | i) Vessels, vats, steel | 0.6771 | 600.61 | 542.04 | 361.50 | 357.11 |
| 145 | 2912 | ii) Clamps, iron / steel | 0.1701 | 114.45 | 117.80 | 7.64 | 0 |
| 146 | 2913 | iii) Bush, metal - others | 0.2004 | 123.23 | 160.79 | 147.56 | 110.88 |
| 147 | 2915 | iv) Roller for conveyor | 0.1192 | 57.05 | 64.98 | 0.00 | 0.00 |
| 148 | 2919 | v) Refrigerators ex. Deep freezer | 0.0769 | 0.00 | 0.00 | 0.00 | 0.00 |
| 149 | 2919 | vi) Weighing scales | 1.9930 | 24.52 | 36.21 | 33.94 | 34.23 |
| 150 | 2919 | vii) Scrap, rubber | 0.0811 | 0.00 | 0.00 | 0.00 | 0.00 |
| 151 | 2924 | viii) Hose pipe / pipe set | 0.5530 | 0.00 | 0.00 | 0.00 | 0.00 |
| 152 | 2926 | ix) Washing machines / laundry mach. | 4.0864 | 87.86 | 141.52 | 151.68 | 158.22 |
| 153 | 2926 | x) Micro oven | 0.6674 | 348.82 | 300.24 | 0.00 | 0.00 |
| 154 | 2926 | xi) Spares, agricultural machinery - others | 0.3570 | 0.14 | 0.40 | 0.20 | 0.12 |
| 155 | 2926 | xii) Can washers | 0.3123 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 2926 | xiii) Machinery, others | 0.1542 | 313.03 | 331.56 | 294.69 | 68.07 |
| 157 | 2929 | xiv) Moulds& dies, metal | 0.2336 | 0.00 | 70.51 | 75.64 | 89.74 |
| 158 | 2930 | xv) Fan, ceiling | 4.0585 | 145.47 | 135.42 | 165.41 | 176.169 |
| 159 | 2930 | xvi) Fan, pedestal | 0.4286 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 2930 | xvii) Iron, electric | 0.1888 | 0.00 | 0.00 | 0.00 | 0.00 |
| 161 | 2930 | xviii) Electric toasters | 0.0366 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 2930 | xix) Water filters, plastic | 0.2618 | 1.22 | 0.54 | 0.62 | 0.57 |
| 30. Manufacture of office, accounting & computing machinery | | | | | | | |
| 163 | 3000 | i) Automation system | 3.7978 | 265.87 | 1272.99 | 137.88 | 251.96 |
| 164 | 3000 | ii) Computers other than pc | 1.3226 | 0.00 | 0.00 | 0.00 | 342.47 |
| 165 | 3000 | iii) Computer (p. c.) | 12.2419 | 60.93 | 47.45 | 26.74 | 15.32 |
| 166 | 3000 | iv) Mother board | 3.1343 | 0.00 | 20.96 | 15.28 | 23.12 |
| 167 | 3000 | v) Computer peripherals | 1.2238 | 0.00 | 0.00 | 0.00 | 0 |
| 168 | 3000 | vi) Computer / parts / peripherals n. e. c. | 1.0754 | 168.63 | 61.81 | 48.45 | 25.99 |
| 169 | 3000 | vii) Electronic components & parts, n. e. c. | 0.1327 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 3000 | viii) lan card (e. g. ethernet card) | 0.1317 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31. Manufacture of electrical machinery & apparatus n. e. c. | | | | | | | |
| 171 | 3110 | i) A. c. motors | 2.5016 | 156.48 | 136.77 | 117.40 | 0.00 |
| 172 | 3110 | ii) Electric motor starters | 1.8720 | 64.72 | 65.62 | 72.11 | 79.42 |
| 173 | 3120 | iii) Control panel | 0.0358 | 325.00 | 368.42 | 426.32 | 1178.95 |
| 174 | 3130 | iv) Insulating & flexible wires | 2.9217 | 100.90 | 96.78 | 108.17 | 101.56 |
| 175 | 3130 | v) Cable, jelly filled | 2.8892 | 3.79 | 0.35 | 0.29 | 0.70 |
| 176 | 3130 | vi) xlpe cable | 2.2750 | 0.00 | 0.00 | 0.00 | 0 |
| 177 | 3130 | vii) Fibre optic cable | 1.9731 | 62.79 | 73.48 | 120.40 | 203.57 |
| 178 | 3130 | viii) Telephone dials | 0.9144 | 0.00 | 0.00 | 0.00 | 0.00 |
| 179 | 3130 | ix) Connectors / plugs /sockets holders - electric | 0.8954 | 0.00 | 0.01 | 0.01 | 0.01 |
| 180 | 3130 | x) Coil springs, copper | 0.7117 | 0.00 | 0.00 | 0.00 | 0.00 |
| 181 | 3130 | xi) Telephony / transmission equipment & parts, n. e. c. | 0.6650 | 0.00 | 0.00 | 0.00 | 0.00 |
| 182 | 3130 | Lamps/fittings/etc. n.e.c. | 0.6650 | 0.00 | 0.00 | 0.00 | 0.00 |
| 183 | 3130 | Scrap/waste, metal - others | 0.0888 | 0.00 | 0.00 | 0.00 | 0.00 |
| 184 | 3130 | Cable jointing kits | 0.0849 | 0.00 | 0.00 | 0.00 | 0.00 |
| 185 | 3140 | xv) Battery plate | 0.2455 | 182.96 | 205.66 | 95.26 | 49.97 |
| 186 | 3190 | xvi) Electrical steel & lamination | 0.1621 | 281.55 | 646.27 | 0.27 | 0.17 |

| 32. Manufacture of radio, television & communication equipment and apparatus | | | | | | | |
|--|------|---|--------|--------|---------|---------|--------------|
| 187 | 3210 | i) Rod, glass | 0.1676 | 0.00 | 0.00 | 0.00 | 0 |
| 188 | 3210 | ii) Capacitors, mica | 0.5447 | 0.00 | 0.00 | 0.00 | 0 |
| 189 | 3210 | iii) Power capacitors | 0.1777 | 227.96 | 217.66 | 245.22 | 0 |
| 190 | 3210 | iv) Capacitor, metalised poly. Film | 0.1285 | 257.70 | 289.77 | 193.33 | 295.50 |
| 191 | 3210 | v) Resistance / resistor | 0.0148 | 0.00 | 0.00 | 0.00 | 0 |
| 192 | 3210 | vi) Printed circuit plate / board (pcb) | 1.2511 | 311.47 | 331.11 | 302.50 | 235.46 |
| 193 | 3220 | vii) Radio | 0.3539 | 0.00 | 0.00 | 0.00 | 0 |
| 194 | 3220 | viii) Stereo head phone | 0.1174 | 0.00 | 0.00 | 0.00 | 0 |
| 195 | 3220 | ix) Car cassette players | 0.0105 | 0.00 | 0.00 | 0.00 | 0 |
| 196 | 3220 | x) Telephones receiver | 0.7297 | 0.00 | 0.00 | 0.00 | 0 |
| 197 | 3220 | xi) Trans receiver set, all types | 0.4250 | 0.00 | 0.00 | 0.00 | 0 |
| 198 | 3230 | xii) T. V. set (b / w) | 0.0462 | 0.00 | 0.00 | 0.00 | 0 |
| 199 | 3230 | xiii) T. V. set (colour) | 0.0297 | 0.00 | 0.00 | 0.00 | 0 |
| 200 | 3230 | xiv) V. C. D. | 0.0027 | 0.00 | 0.00 | 0.00 | 0 |
| 33. Manufacture of medical, precision & optical instruments, watches & clocks | | | | | | | |
| 201 | 3311 | i) X - ray equipment | 3.9379 | 66.93 | 62.73 | 69.40 | 67.77 |
| 202 | 3311 | ii) Fabricated products, others | 0.7855 | 200.44 | 176.89 | 166.78 | 176.79 |
| 203 | 3311 | iii) H I V testing kits | 0.3599 | 0.00 | 0.00 | 0.00 | 0.00 |
| 204 | 3311 | iv) Medical /bio - medical / lab. Machines n.e.c. | 0.1412 | 0.00 | 0.00 | 0.00 | 0.00 |
| 205 | 3312 | v) Process combat instruments | 0.4910 | 183.63 | 152.39 | 9.55 | 0.00 |
| 206 | 3313 | vi) control equipment | 1.0864 | 51.54 | 64.28 | 51.92 | 23.80 |
| 207 | 3313 | vii) Transmitters (not for radio broadcast) | 0.5361 | 42.47 | 1344.26 | 1154.72 | 1167.15 |
| 208 | 3313 | viii) Thermometer, dry bulb | 0.1052 | 7.20 | 14.02 | 17.98 | 0.00 |
| 209 | 3313 | ix) Test production | 0.0978 | 0.00 | 0.00 | 0.00 | 0.00 |
| 210 | 3313 | x) Pressure & vacuum gauges | 0.0394 | 5.69 | 23.25 | 26.35 | 17.69 |
| 211 | 3313 | xi) Heating/cooling electric equipment, & parts | 0.0275 | 0.00 | 0.00 | 0.00 | 0.00 |
| 212 | 3320 | xii) Lens, ophthalmic | 3.9436 | 99.80 | 55.09 | 58.09 | 29.95 |
| 213 | 3320 | xiii) Glass, blank, ophthalmic | 1.7224 | 0.00 | 6.35 | 17.92 | 0.00 |
| 214 | 3320 | xiv) Spectacle fitted with lens | 0.5213 | 0.00 | 13.03 | 11.44 | 198.93 |
| 215 | 3320 | xv) Camera, still | 0.1980 | 0.00 | 0.00 | 0.00 | 0.00 |
| 216 | 3320 | xvi) Projectors, others | 0.0978 | 0.00 | 0.00 | 0.00 | 0.00 |
| 217 | 3330 | xvii) Watch, quartz | 3.9356 | 0.00 | 0.00 | 0.00 | 0.00 |
| 218 | 3330 | xviii) Cases, watch | 1.9689 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219 | 3330 | xix) Straps, stainless steel | 0.4315 | 0.00 | 0.00 | 0.00 | 0.00 |
| 220 | 3330 | xx) Straps, leather | 0.0446 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34. Manufacture of motor vehicles, trailers &semi trailers | | | | | | | |
| 221 | 3410 | i) Mini bus body | 4.6526 | 144.04 | 27.49 | 5.24 | 0.06 |
| 222 | 3410 | ii) Motor vehicle, others & parts, n. e. c. | 2.4592 | 42.83 | 0.00 | 0.00 | 0.00 |
| 223 | 3410 | iii) Motor car, diesel drvn. Complete - imported, assembled | 0.0362 | 13.64 | 0.00 | 0.00 | 0.00 |
| 224 | 3420 | iv) Body for other vehicles | 0.1778 | 4.25 | 7.39 | 4.84 | 3.17 |
| 225 | 3420 | v) Seat assembly, rubber | 0.1535 | 0.00 | 0.00 | 0.00 | 0.00 |
| 226 | 3430 | vi) Machine tool & accessories - others | 0.5029 | 213.74 | 259.76 | 198.02 | 97.36 |

| 35. Manufacture of other transport equipment | | | | | | | |
|---|------|--|--------|---------|--------|---------|--------|
| 227 | 3511 | i) Barges excl. hopper | 3.4134 | 30.00 | 55.00 | 65.00 | 10.00 |
| 228 | 3511 | ii) Ships, boats & other vessels, n. e. c. | 0.1750 | 178.38 | 370.27 | 0.00 | 0.00 |
| 229 | 3511 | iii) Boat, wooden with engine | 0.0538 | 0.00 | 0.00 | 0.00 | 0.00 |
| 230 | 3511 | iv) trawlers - fishing - motorized | 0.0117 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36. Manufacture of furniture, manufacturing n. e. c. | | | | | | | |
| 231 | 3610 | i) Tables & desks, iron / steel | 0.0646 | 164.79 | 211.36 | 216.19 | 264.97 |
| 232 | 3610 | ii) Chair, metal | 0.0591 | 267.47 | 311.49 | 269.73 | 453.66 |
| 233 | 3610 | iii) Fabricated metal products | 0.0189 | 7312.14 | 85.32 | 39.29 | 8.84 |
| 234 | 3610 | iv) Furniture, aluminium | 0.0138 | 1958.20 | 812.50 | 1212.96 | 571.09 |
| 235 | 3610 | v) Chair, steel | 0.0129 | 0.00 | 3.67 | 183.65 | 0.00 |
| 236 | 3691 | vi) Jewellery / ornament, gold - others | 0.4409 | 0.00 | 0.00 | 0.00 | 0.00 |
| 237 | 3694 | vii) Toys, plastic moulded - others | 0.7610 | 0.00 | 0.00 | 0.00 | 0.00 |
| 238 | 3694 | viii) Toys, electrical / electronic - others | 0.4046 | 1.85 | 73.21 | 92.43 | 92.92 |
| 239 | 3699 | ix) Dot pen with refill | 1.0436 | 0.00 | 0.00 | 0.00 | 0.00 |
| 240 | 3699 | x) Refill, ball / dot pen | 0.3132 | 0.00 | 0.00 | 0.00 | 0.00 |
| 241 | 3699 | xi) Pen, marker | 0.3019 | 0.00 | 0.00 | 0.00 | 0.00 |
| 242 | 3699 | xii) Stationary / all purpose items - n. e. c. | 0.0812 | 0.00 | 0.00 | 0.00 | 0.00 |
| 243 | 3699 | xiii) Tooth brush | 0.5530 | 322.68 | 467.60 | 525.10 | 0.00 |

