



# **REPORT ON INDEX OF INDUSTRIAL PRODUCTION 2019 - 2022**



**GOVERNMENT OF GOA  
DIRECTORATE OF PLANNING, STATISTICS & EVALUATION  
PANDIT DEENDAYAL UPADHYAYA BHAVAN  
PORVORIM - GOA**



**GOVERNMENT OF GOA**

**INDEX OF  
INDUSTRIAL PRODUCTION  
ANNUAL REPORT  
2019 - 2022  
BASE YEAR: (2011-12=100)**

**DIRECTORATE OF PLANNING, STATISTICS & EVALUATION  
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## PREFACE

The Index of Industrial Production measures the trend in the behaviour of Industrial Production. It helps in analysing 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 2011-12 is in accordance with the guidance of Central Statistical Organization, Government of India. This is the thirty eighth report on Index numbers since inception, and the sixth in the revised series with the base year 2011-12. It covers index numbers from 2019-20, 2020-21 & 2021-22 at two digit level industrial divisions of NIC-2008.

It is hoped that this publication would be useful to those who are involved in the developmental planning of industrial sector. 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 this Publication. I also place on record my appreciation for factory management who had extended their co-operation to our field officials in collecting the data.

Suggestions for improvement in the publication are most welcome.

**Place: Porvorim - Goa**  
**Date: 19/12/2023**

**(VIJAY B. SAXENA)**  
**DIRECTOR**

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## Chapter 1

### Introduction

#### 1.1. 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 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) 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 Organization, 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 Organization, 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 presently the base year of State level IIP's has been shifted from 2004-2005=100 to 2011-12=100.

This is the 38<sup>th</sup> report in the series since its inception in the state and the 6<sup>th</sup> in the revised series of 2011-12. This issue covers the indices for the year 2019-20, 2020-21 & 2021-22 for Electricity, Mining and Manufacturing sectors along with combined indices for all the three sectors.

## 1.2. 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 operating within the jurisdiction of the state.

## 1.3. 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 website of Indian Bureau of Mines (IBM), Nagpur.
- 3) The manufacturing index is computed based on the month-wise production data collected Under the provision of the Collection of Statistics Act, 2008 ( 7 of 2009) and Rules framed there under in 2011, from the selected factories by issuing letters. In case of delayed response/non-response of units/factories, all such units/factories are contacted over telephone or through personal visits by the staff of this Directorate.
- 4) The monthly production data of non-responding units regardless of personal follow-up, has been estimated either on the basis of the trend in production of the responding units or average production of preceding year of non-responding units of a particular item for which data has not been received for the year under report, is taken under consideration.

## 1.4. BASE YEAR

The base year for calculation of the Index of Industrial Production in respect of Electricity, Mining and Manufacturing sector is 2011-12. It was revised from the earlier base of 2004-2005 as per the guidelines of the Central Statistical Office, ESD, MoSPI, New Delhi.

## Chapter 2

### Item Basket

The three sectors viz. Electricity, Mining and Manufacturing together comprise 68 items in the item basket. The Electricity Sector has been Continued in the calculation of Index of Industrial Production from 2004-05 with new base year 2011-12. 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 Aluminum Ore (Bauxite). The production figures for the constituents of the item basket in the mining sector are obtain from website of 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 2011-12, which was supplied by the Central Statistical Organization, New Delhi, along with the Guidelines. The manufacturing sector is represented by 64 items, spread over 18 industrial divisions considered at 2-digit level of NIC-2008 (excluding divisions 12 to 16).

The new series of IIP with base year 2011-12 includes 'electricity,' 'mining' 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, mining and registered manufacturing sectors on the basis of Gross Value Added (GVA).

Since 'Electricity' is a single item in the sector, No apportioning of weight is done.

For 'Mining' 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 divisions (10-32) of NIC-2008 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.

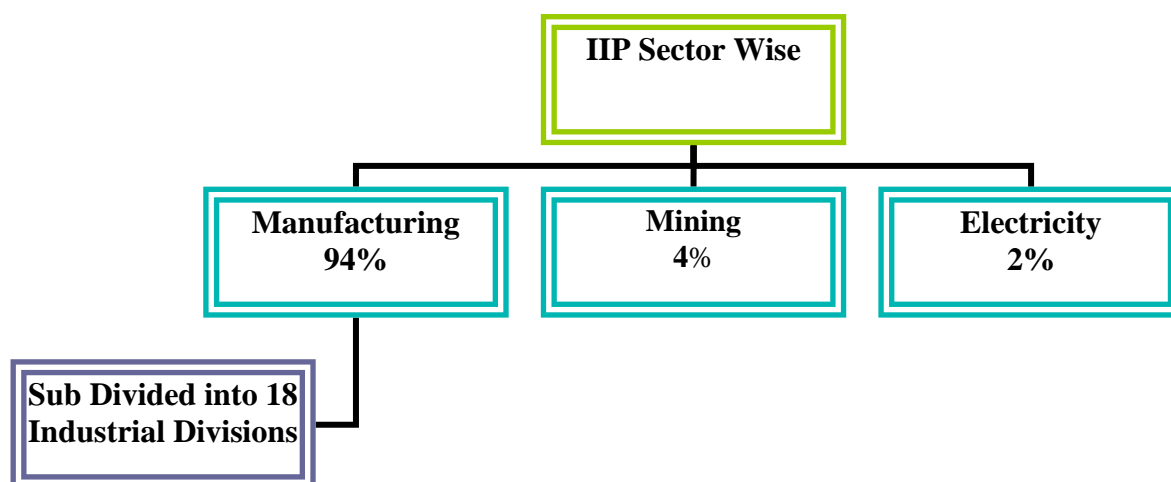
Table 2.1. Below, provides information on items in the new item basket with base year 2011-12 under the three sectors viz. Electricity, Mining and Manufacturing and these are compared with the previous base year i.e. 2004-2005.

**TABLE No-2.1.**

**REVISION OF ITEM BASKET FROM BASE YEAR 2004-05 TO 2011-12**

| Sector               | Item basket<br>(base 2004-05) | New items<br>included | Items<br>deleted | Common<br>items | Item basket<br>(base year<br>2011-12) |
|----------------------|-------------------------------|-----------------------|------------------|-----------------|---------------------------------------|
| <b>1</b>             | <b>2</b>                      | <b>3</b>              | <b>4</b>         | <b>5</b>        | <b>6</b>                              |
| <b>Electricity</b>   | 1                             | 0                     | 0                | 1               | <b>1</b>                              |
| <b>Mining</b>        | 3                             | 0                     | 0                | 3               | <b>3</b>                              |
| <b>Manufacturing</b> | 243                           | 38                    | 217              | 26              | <b>64</b>                             |
| <b>Total</b>         | <b>247</b>                    | <b>38</b>             | <b>217</b>       | <b>30</b>       | <b>68</b>                             |

**Figure 1: Sector wise Break up of Components comprising IIP (base year 2011-12)**





## Chapter 3

### Weighing Diagram

The weighing diagram has been prepared on the basis of guidelines made available by the Central Statistical Organisation (CSO), Kolkata, for different items covered. The sector or division level weights are also assigned to each sector/division. Table No-3.1, shows the sector level allotment of weights.

**TABLE No-3.1**  
**DISTRIBUTION OF WEIGHTS AT SECTOR LEVEL**  
**BASE YEAR 2011-12=100**

| Sl. No.      | Sector        | Weight         |
|--------------|---------------|----------------|
| <b>1</b>     | <b>2</b>      | <b>3</b>       |
| 1            | Electricity   | 58.26          |
| 2            | Mining        | 319.76         |
| 3            | Manufacturing | 621.98         |
| <b>Total</b> |               | <b>1000.00</b> |

Table No-3.2, compares the weight allotted to the sectors during the base year 2004-05 and the revised base year 2011-12 at sector level as detailed below.

**TABLE NO-3.2**  
**COMPARISON OF WEIGHTS DURING THE BASE YEAR**  
**2004-05 & 2011-12**

| Sl. No.      | Sector        | Allotment of Weights during |                   |
|--------------|---------------|-----------------------------|-------------------|
|              |               | Base Year 2004-05           | Base Year 2011-12 |
| <b>1</b>     | <b>2</b>      | <b>3</b>                    | <b>4</b>          |
| 1            | Electricity   | 57.43                       | 58.26             |
| 2            | Mining        | 136.82                      | 319.76            |
| 3            | Manufacturing | 805.75                      | 621.98            |
| <b>Total</b> |               | <b>1000.0</b>               | <b>1000.00</b>    |

**Figure 2: Comparison of Weights during the base year**

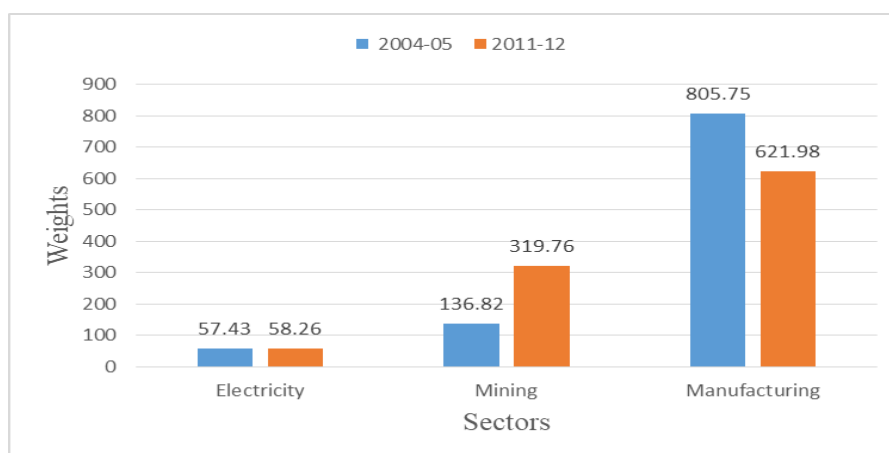


Table No-3.3, depicts the distribution of weights at 2-digit level divisions of mining sector and distribution of weights among items within 2-digit level of the same sector.

**TABLE NO-3.3**  
**DISTRIBUTION OF WEIGHTS AMONG ITEMS WITHIN**  
**2-DIGIT LEVEL OF MINING SECTOR**  
**(BASE YEAR 2011-12=100)**

| Sl. No.      | NIC 2-Digit Division | Description of Mining Division | Description of Item        | Weight        |
|--------------|----------------------|--------------------------------|----------------------------|---------------|
| 1            | 2                    | 3                              | 4                          | 5             |
| 1            | 07                   | Mining of Metal Ores           | a) Iron Ore                | 318.76        |
|              |                      |                                | b) Manganese Ore           | 0.18          |
|              |                      |                                | c) Aluminium Ore (Bauxite) | 0.82          |
| <b>Total</b> |                      |                                |                            | <b>319.76</b> |

As a part of the latest weighing diagram with item basket of 78 items, the Central Statistical Organization (CSO), NSSO, MoSPI Kolkata, have provided 80 factories for selection and 61 for reserved factories. In addition, a list of 5 factories for each item was prepared under the direction of CSO in consultation with the Chief Inspectorate of Factories and Boilers, Goa.

A thorough investigation of these factories regarding closures, changes in production and non-manufacturing products was carried out, and as per MoSPI guidelines, 205 factories were selected from 356 factories for items in the modified item basket of Manufacturing Sector. Accordingly, weight of items not manufactured in the State too has been re-distributed into the available items as mentioned below:

- 1. Manufacturing of Textile:** Weight of Knitted Fabrics, Cloth Cotton has been re-distributed to other 18 Manufacturing Sub-sector in proportion to the percentage of weight of Sub Sector.
- 2. Manufacturing Food Products:** Coconut oil refined weight has been re-distributed within 7 items from the same sub-sector of food products.
- 3. Manufacturing of Pharmaceuticals, Medicinal Chemical and Botanical Products:** - Injection pump for diesel engines, weight has re-distributed within 11 items in that particular manufacturing sub- sector.
- 4. Manufacture of Computer, Electronic and Optical Products, Computer and Air Combat Stimulators:** Weight has re-distributed within 5 items in that same manufacturing sub-sector
- 5. Manufacture of Electrical Equipment Products:** Acrylic panels and bulbs glass weight has been re-distributed within 6 items in that particular manufacturing sub-sector

6. **Other Manufacturing products:** Medical, Surgical Dental or Veterinary Furniture, Barbers chairs and similar chairs having rotating as well as both reclining and elevating movements weight has re-distributed within 2 items in that particular manufacturing sub-sector.
7. **Grouping of items:** Grouping of 11 items into 6 items groups due to non-availability of number of factories and production data to make off with 5 factories list in the Manufacturing Sector.

In consequence, 64 item baskets for Manufacturing Sector has been finalized on account of re-distributing of weights.

Table No-3.4, exhibits the distribution of weights to various 2-digit industry division (10-32) of NIC-2008.

**TABLE No-3.4**  
**DISTRIBUTION OF WEIGHTS AT 2 DIGIT LEVEL UNDER**  
**MAJOR MANUFACTURING SECTOR**  
**(BASE YEAR 2011-12=100)**

| Sl. No. | NIC 2-Digit division | Description  | Weight        |
|---------|----------------------|--|---------------|
| 1       | 10                   | Manufacture of Food products   | 43.43         |
| 2       | 11                   | Manufacture of Beverages   | 7.54          |
| 3       | 17                   | Manufacture of Paper and Paper Products.                                 | 1.73          |
| 4       | 18                   | Printing and reproduction of recorded media                              | 3.51          |
| 5       | 19                   | Manufacture of Coke, refined petroleum products and nuclear fuel         | 3.65          |
| 6       | 20                   | Manufacture of Chemicals and Chemical products                           | 37.17         |
| 7       | 21                   | Manufacture of Pharmaceuticals medicinal chemical and botanical products | 135.69        |
| 8       | 22                   | Manufacture of Rubber and Plastic products                               | 96.98         |
| 9       | 23                   | Manufacture of other Non-metallic mineral products                       | 7.78          |
| 10      | 24                   | Manufacture of Basic Metals  | 245.06        |
| 11      | 25                   | Manufacture of Fabricated metal products, except machinery and equipment | 3.42          |
| 12      | 26                   | Manufacture of computer, electronic and optical products                 | 5.77          |
| 13      | 27                   | Manufacture of Electrical equipment                                      | 9.90          |
| 14      | 28                   | Manufacture of Machinery & equipment                                     | 6.72          |
| 15      | 29                   | Manufacture of Motor Vehicles, trailers and Semi-trailers                | 3.35          |
| 16      | 30                   | Manufacture of other Transport equipment                                 | 5.07          |
| 17      | 31                   | Manufacture of Furniture   | 0.30          |
| 18      | 32                   | Other Manufacture  | 4.92          |
|         |                      | <b>Total</b>   | <b>621.98</b> |

Table No-3.5, gives the detailed picture of distribution of weights to items represented at different industrial divisions of electricity, mining and manufacturing sector at 2-digit level of National Industrial Classification (NIC).

**TABLE No-3.5**  
**MAJOR SECTORS WISE DISTRIBUTION OF WEIGHT, PERCENTAGE AND**  
**NUMBER OF ITEMS SELECTED AT 2-DIGIT LEVEL DIVISIONS OF NIC**  
**(BASE YEAR 2011-12=100)**

| Sl. No.   | NIC 2-Digit division | Description of NIC division  | Weight & its percentage to total | Number of items selected |
|---|----------------------|--|----------------------------------|--------------------------|
| 1   | 2                    | 3  | 4                                | 5                        |
| <b>ELECTRICITY SECTOR</b>   |                      |  |                                  |                          |
| 1   | 35                   | Electricity  | 58.26(5.83%)                     | 1                        |
| <b>A) Sub-Total (Electricity )</b>                                |                      |  | <b>58.26(5.83%)</b>              | <b>1</b>                 |
| <b>MINING SECTOR</b>  |                      |  |                                  |                          |
| 1   | 07                   | Mining of Metal Ores   | 319.76(31.98%)                   | 3                        |
| <b>B) Sub-Total (Mining )</b>                                     |                      |  | <b>319.76(31.98%)</b>            | <b>3</b>                 |
| <b>MANUFACTURING SECTOR</b>                                       |                      |  |                                  |                          |
| 1   | 10                   | Manufacture of Food products   | 43.43(4.34%)                     | 7                        |
| 2   | 11                   | Manufacture of Beverages   | 7.54(0.75%)                      | 2                        |
| 3   | 17                   | Manufacture of Paper and Paper Products.                                 | 1.73(0.17%)                      | 3                        |
| 4   | 18                   | Printing and reproduction of recorded media                              | 3.51(0.35%)                      | 1                        |
| 5   | 19                   | Manufacture of Coke, refined petroleum products and nuclear fuel         | 3.65(0.36%)                      | 2                        |
| 6   | 20                   | Manufacture of Chemicals and Chemical products                           | 37.17(3.72%)                     | 3                        |
| 7   | 21                   | Manufacture of Pharmaceuticals medicinal chemical and botanical products | 135.69(13.57%)                   | 9                        |
| 8   | 22                   | Manufacture of Rubber and Plastic products                               | 96.98(9.70%)                     | 4                        |
| 9   | 23                   | Manufacture of other Non-metallic mineral products                       | 7.78(0.78%)                      | 2                        |
| 10  | 24                   | Manufacture of Basic Metals  | 245.06(24.51%)                   | 5                        |
| 11  | 25                   | Manufacture of Fabricated metal products, except machinery and equipment | 3.42(0.34%)                      | 4                        |
| 12  | 26                   | Manufacture of computer, electronic and optical products                 | 5.77(0.58%)                      | 5                        |
| 13  | 27                   | Manufacture of Electrical equipment                                      | 9.90(0.99%)                      | 6                        |
| 14  | 28                   | Manufacture of Machinery & equipment                                     | 6.72(0.67%)                      | 3                        |
| 15  | 29                   | Manufacture of Motor Vehicles, trailers and Semi-trailers                | 3.35(0.33%)                      | 2                        |
| 16  | 30                   | Manufacture of other Transport equipment                                 | 5.07(0.51%)                      | 2                        |
| 17  | 31                   | Manufacture of Furniture   | 0.30(0.03%)                      | 2                        |
| 18  | 32                   | Other Manufacture  | 4.92(0.49%)                      | 2                        |
| <b>C) Sub-Total (Manufacturing)</b>                               |                      |  | <b>621.98(62.19%)</b>            | <b>64</b>                |
| <b>(A+B+C) Grand Total (Electricity + Mining + Manufacturing)</b> |                      |  | <b>1000.00(100%)</b>             | <b>68</b>                |

Table No.3.6, gives the allotment of weights among 4 digit classes of items within 2-digit level of NIC under electricity, mining and manufacturing sector.

**TABLE NO-3.6**  
**DISTRIBUTION OF WEIGHTS AMONG 4 DIGIT CLASSES OF ITEMS WITHIN**  
**2 DIGIT LEVEL OF INDUSTRIES UNDER ELECTRICITY, MINING AND**  
**MANUFACTURING SECTOR**  
**(BASE YEAR 2011-12=100)**

| Sl. No.   | NIC - 2008           | Description of Item  | Weight |
|---|----------------------|--|--------|
| 1   | 2                    | 3  | 4      |
| ELECTRICITY SECTOR                                  |                      |  |        |
| 35 Electricity, Gas, Steam and Air-condition Supply |                      |  |        |
| 1   | 3510                 | Generation of Electricity  | 58.26  |
| A) Total  | (ELECTRICITY SECTOR) |  | 58.26  |
| MINING SECTOR                                       |                      |  |        |
| 07 Mining of Metal Ores                             |                      |  |        |
| 1   | 0710                 | Iron Ore   | 318.76 |
| 2   | 0729                 | Manganese Ore  | 0.18   |
| 3   | 0729                 | Aluminium Ore (Bauxite)  | 0.82   |
| B) Total  | (MINING SECTOR)      |  | 319.76 |
| MANUFACTURING SECTOR                                |                      |  |        |
| 10 Manufacture of Food Products                     |                      |  |        |
| 1   | 1020                 | Fish Meat Fresh Fish Frozen or otherwise                                       | 2.32   |
| 2   | 1050                 | Milk, skimmed or pasteurised, non-flavoured                                    | 0.70   |
| 3   | 1050                 | Ice-cream  | 0.23   |
| 4   | 1061                 | Wheat flour  | 0.04   |
| 5   | 1071                 | Cashew nut and shelled   | 5.07   |
| 6   | 1073                 | Chocolate and other food preparation containing cocoa (except sweetened cocoa) | 20.36  |
| 7   | 1074                 | Noodles  | 14.72  |
|   |                      | Total  | 43.43  |
|   |                      | 11.Manufacture of beverage   |        |
| 8   | 1102                 | Alcoholic Beverages  | 5.33   |
| 9   | 1104                 | Soft drink carbonated beverage other than soda water                           | 2.22   |
|   |                      | Total  | 7.54   |
|   |                      | 17. Manufacture of Paper and Paper Products.                                   |        |
| 10  | 1702                 | Corrugated paper board   | 0.60   |
| 11  | 1702                 | Boxes, Corrugated sheets   | 0.46   |
| 12  | 1702                 | Cardboard Boxes  | 0.67   |
|   |                      | Total  | 1.73   |
|   |                      | 18.Printing and reproduction of recorded media                                 |        |
| 13  | 1811                 | Newspaper and daily  | 3.51   |
|   |                      | Total  | 3.51   |
|   |                      | 19.Manufacture of Coke, refined petroleum products                             |        |
| 14  | 1920                 | Liquefied Petroleum gas (LPG)  | 2.61   |
| 15  | 1920                 | Petroleum coke calcined  | 1.04   |
|   |                      | Total  | 3.65   |

CONT'D...

**TABLE NO-3.6**  
**DISTRIBUTION OF WEIGHTS AMONG 4 DIGIT CLASSES OF ITEMS WITHIN**  
**2 DIGIT LEVEL OF INDUSTRIES UNDER ELECTRICITY, MINING AND**  
**MANUFACTURING SECTOR**  
**(BASE YEAR 2011-12=100)**

| Sl. No. | NIC - 2008 | Description of Item   | Weight        |
|---------|------------|---|---------------|
| 1       | 2          | 3   | 4             |
|         |            | <b>20 .Manufacture of Chemicals and Chemical products</b>   |               |
| 16      | 2012       | Urea  | 16.69         |
| 17      | 2023       | Soap toilet (excluding baby soap)   | 5.68          |
| 18      | 2023       | Toothpaste, non-medicated   | 14.80         |
|         |            | <b>Total</b>  | <b>37.17</b>  |
|         |            | <b>21. Manufacture of Pharmaceuticals medicinal Chemical and botanical Products</b>               |               |
| 19      | 2100       | Doxycycline / Minocycline   | 8.27          |
| 20      | 2100       | Metronidazole with/ out, norfloxacin  | 3.85          |
| 21      | 2100       | Vitamin E (tocopherol) and Other Vitamin in tablet or injectable form                             | 16.10         |
| 22      | 2100       | Anti-cancer and Anti malaria  | 68.77         |
| 23      | 2100       | Anti-diabetic drugs excluding insulin (Metformin, pioglitazone, glimepiride etc.)                 | 5.22          |
| 24      | 2100       | Anti-histamine, antistine antitussive (codeine etc.)prep  | 10.10         |
| 25      | 2100       | Lisinopril/Ramipril/enalapril maleate ace inhibitor   | 6.21          |
| 26      | 2100       | Ointments, allopathic   | 11.68         |
| 27      | 2100       | Capsules plastic  | 5.49          |
|         |            | <b>Total</b>  | <b>135.69</b> |
|         |            | <b>22.Manufacture of Rubber and Plastic products</b>  |               |
| 28      | 2211       | Tyre/tube other   | 36.21         |
| 29      | 2211       | Flaps rubber  | 10.67         |
| 30      | 2220       | Container plastic   | 15.76         |
| 31      | 2220       | Plastic bottle caps   | 34.34         |
|         |            | <b>Total</b>  | <b>96.98</b>  |
|         |            | <b>23.Manufacture of other Non-metallic mineral products</b>                                      |               |
| 32      | 2394       | Cement, Portland  | 3.85          |
| 33      | 2395       | Other article of cement, concrete or artificial   | 3.93          |
|         |            | <b>Total</b>  | <b>7.78</b>   |
|         |            | <b>24.Manufacture of Basic Metals</b>   |               |
| 34      | 2410       | Ingots iron   | 231.53        |
| 35      | 2420       | Manganese dioxide   | 9.68          |
| 36      | 2420       | Aluminium tube, pipes alloyed   | 3.16          |
| 37      | 2431       | Cast iron   | 0.51          |
| 38      | 2431       | Valves, industrial  | 0.17          |
|         |            | <b>Total</b>  | <b>245.06</b> |
|         |            | <b>25.Manufacture of Fabricated metal products, except Machinery and equipments</b>               |               |
| 39      | 2511       | Hume pipes (with steel reinforcements)  | 0.23          |
| 40      | 2511       | Buckets, shovels grabs and the like   | 0.18          |
| 41      | 2592       | Artificial graphite, colloidal or semi-colloidal graphite preparations based on graphite or other | 0.55          |
| 42      | 2593       | Saws & Saws blades  | 2.47          |
|         |            | <b>Total</b>  | <b>3.42</b>   |

CONT'D...

**TABLE NO-3.6**  
**DISTRIBUTION OF WEIGHTS AMONG 4 DIGIT CLASSES OF ITEMS WITHIN**  
**2 DIGIT LEVEL OF INDUSTRIES UNDER ELECTRICITY, MINING AND**  
**MANUFACTURING SECTOR**  
**(BASE YEAR 2011-12=100)**

| Sl. No. | NIC - 2008 | Description of Item  | Weight         |
|---------|------------|--|----------------|
| 1       | 2          | 3  | 4              |
|         |            | <b>26.Manufacture of computer, electronic and optical</b>  |                |
| 43      | 2610       | Capacitor, metalized poly film   | 2.54           |
| 44      | 2620       | Computer Peripherals   | 0.22           |
| 45      | 2630       | Toys plastic moulded other   | 0.48           |
| 46      | 2651       | Instruments and apparatus for measuring or checking the flow, level, pressure or their variables of liquids or gases, except | 1.82           |
| 47      | 2651       | Machines and appliances for testing the mechanical properties of materials   | 0.71           |
|         |            | <b>Total</b>   | <b>5.77</b>    |
|         |            | <b>27.Manufacture of Electrical equipment</b>  |                |
| 48      | 2710       | Centrifuge Motors or electrical motors   | 1.39           |
| 49      | 2710       | Parts of electricity distribution of control apparatus   | 0.38           |
| 50      | 2731       | Optical fibre cables made up of individually sheathed  | 5.72           |
| 51      | 2750       | Electric Fans and ventilating or recycling hoods of the domestic type  | 2.17           |
| 52      | 2790       | Fabricated metal product   | 0.12           |
| 53      | 2790       | Instruments and apparatus(except cathode-ray oscilloscopes and oscillograph) for telecommunications                          | 0.11           |
|         |            | <b>Total</b>   | <b>9.90</b>    |
|         |            | <b>28.Manufacture of Machinery &amp; equipment</b>   |                |
| 54      | 2811       | Internal combustion piston engines other   | 1.18           |
| 55      | 2813       | Concrete pump  | 1.34           |
| 56      | 2821       | Washing machine/laundry machine  | 4.20           |
|         |            | <b>Total</b>   | <b>6.72</b>    |
|         |            | <b>29.Manufacture of Motor Vehicles, trailers and Semi Trailers and semi trail</b>   |                |
| 57      | 2920       | Body for other vehicle   | 3.13           |
| 58      | 2930       | Seat for motor vehicle   | 0.21           |
|         |            | <b>Total</b>   | <b>3.35</b>    |
|         |            | <b>30.Manufacture of other Transport equipment</b>   |                |
| 59      | 3011       | Other vessels for the transport of goods and other vessels For the transport   | 2.76           |
| 60      | 3011       | Barges excl. hopper  | 2.31           |
|         |            | <b>Total</b>   | <b>5.07</b>    |
|         |            | <b>31.Manufacture of Furniture</b>   |                |
| 61      | 3100       | Chair steel office   | 0.16           |
| 62      | 3100       | Table & desks iron/steel   | 0.14           |
|         |            | <b>Total</b>   | <b>0.30</b>    |
|         |            | <b>32.Other Manufacture</b>  |                |
| 63      | 3250       | Lens, ophthalmic   | 1.04           |
| 64      | 3250       | Toothbrush   | 3.88           |
|         |            | <b>Total</b>   | <b>4.92</b>    |
|         |            | <b>C) Total (MANUFACTURING SECTOR)</b>   | <b>621.98</b>  |
|         |            | <b>Grand Total (A+B+C) (Electricity + Mining + Manufacturing)</b>  | <b>1000.00</b> |



## Chapter 4

### Index of Industrial Production

#### 4.1. CALCULATION OF INDEX

IIP is generally computed as the weighted average of production relatives of all the industrial activities. The index of Industrial production on new base 2011-12 has been computed by using Laspeyres formula. It is a simple weighted arithmetic mean which can be expressed mathematically as follows:

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

Where,

$I$  - the Index of Industrial Production

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

$W_i$  - the corresponding weight

The production relative ( $R_i$ ) of  $i^{th}$  item has been calculated by using the following formula:

$$R_i = \frac{P_{ic}}{P_{io}} \times 100$$

Where  $P_{ic}$  = Production of  $i^{th}$  item in the current year.

$P_{io}$  = Production of the  $i^{th}$  item in the base year.

Annual average monthly production index is the simple Arithmetic Mean of monthly industrial production indices for all 12 months of a particular financial year.

**Annual average monthly index =**

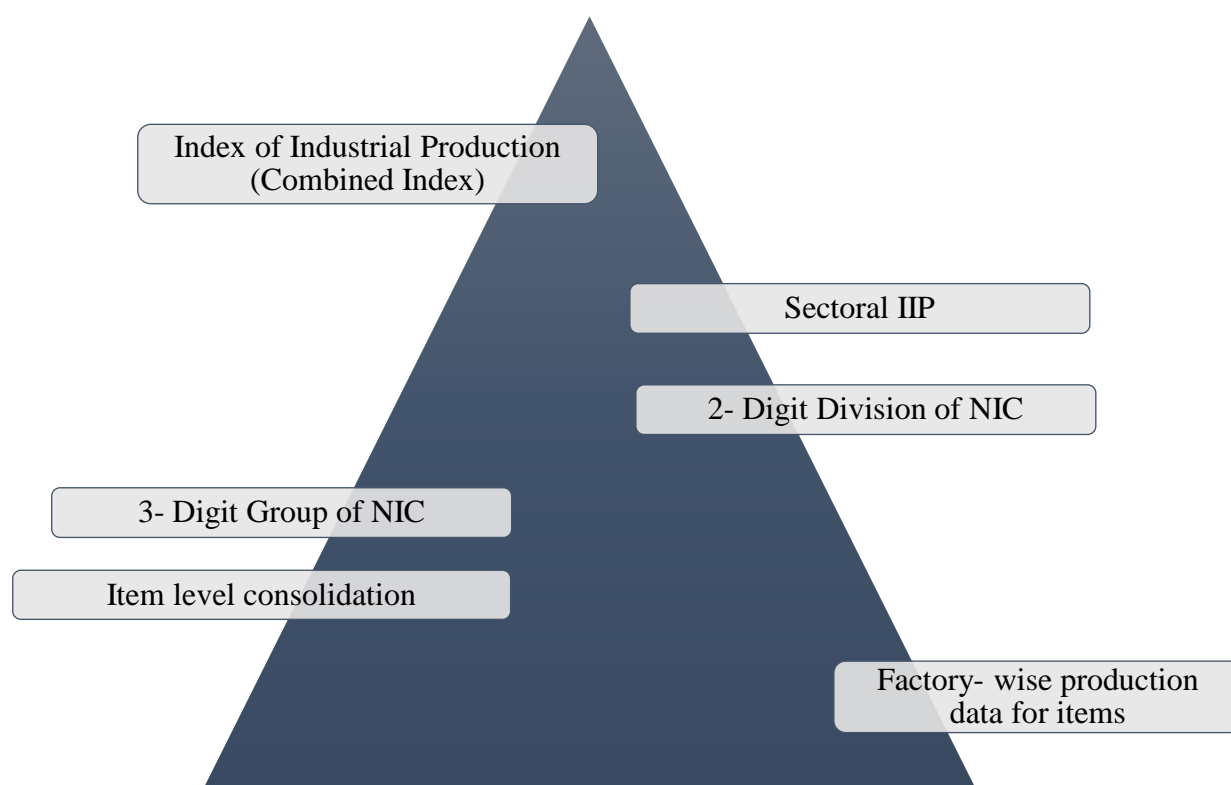
$$\frac{1}{12} \sum_{m=1}^{12} I_m$$

$I_m$  = Index of Industrial Production of  $m^{th}$  month ( $m = 1, 2, \dots, \dots, \dots, 12$ )

## 4.2 COMPILATION OF IIP- STAGE WISE

The compilation of IIP commences with the collection of basic production data relating to the selected items. The basic production data are then combined using weights to produce data for the 3 digit class (NIC). The subsequent upper levels, above the 3-digit class of IIP are generated by combining the lower levels using weights. Following diagram demonstrate the working steps of IIP compilation.

**Figure 3: Different steps in compilation of IIP**



## 4.3. COMBINED INDEX

### a) Sector Level and Combined Annual Indices

The sector level and combined annual indices for the years 2019-20, 2020-21 & 2021-22 Covering 3 Sector namely Electricity, Mining and Manufacturing are given in Table No-4.3.

This table gives the combined Index of the three sectors. It may be observed that, the Manufacturing sector carries the highest weight of 621.98, followed by Mining sector with a

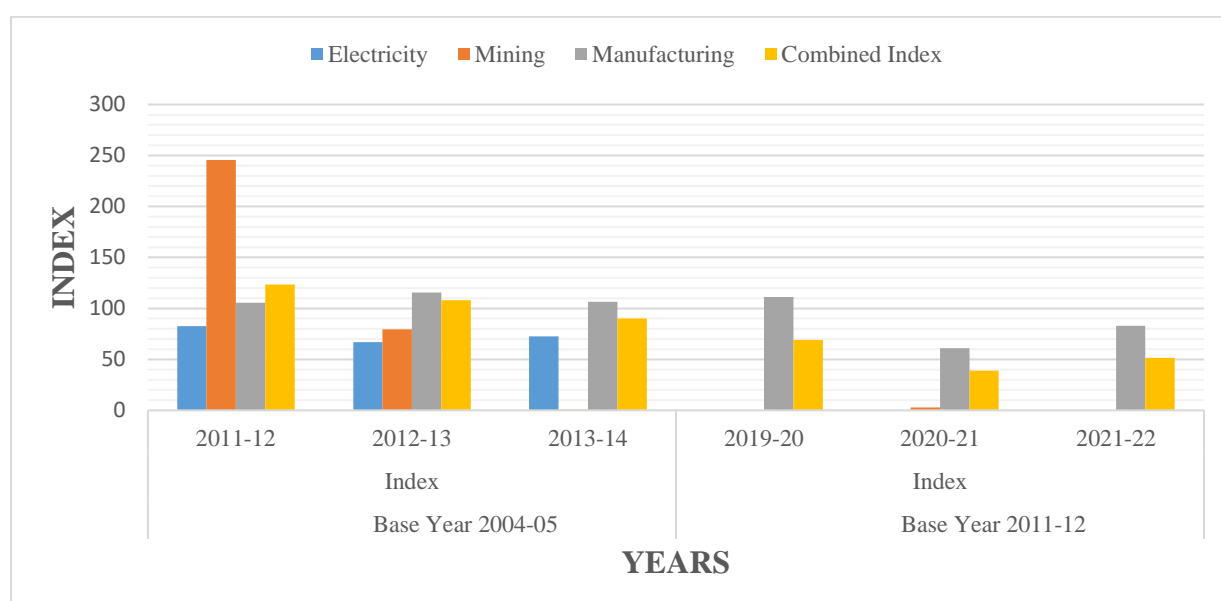
weight of 319.76 and Electricity sector with 58.26 for the current base year. It may also be seen that, in comparison with the years 2011-14, the index of Industrial production for the year 2019-22 with respect of Mining sector has been drastically declined over index of industrial production of the years 2011-14 on account of closure of mining sector, while the average index of industrial production with respect to the manufacturing sector is dropped by 22.28%. The combined average index of industrial production of all the 3 sectors is showing a negative growth of 50.40% over 2019-22 as compared to 2011-14.

**TABLE NO-4.3**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**SECTOR LEVEL AND COMBINED ANNUAL INDICES**  
**(BASE YEAR 2011-12=100)**

| Sl. No.               | Industrial Sector | Base year 2004-05 |               |               |              | Base Year 2011-12 |              |              |              |
|-----------------------|-------------------|-------------------|---------------|---------------|--------------|-------------------|--------------|--------------|--------------|
|                       |                   | Weight            | Index         |               |              | Weight            | Index        |              |              |
|                       |                   |                   | 2011-12       | 2012-13       | 2013-14      |                   | 2019-20      | 2020-21      | 2021-22      |
| 1                     | Electricity       | 57.43             | 82.47         | 67.06         | 72.42        | 58.26             | 0.00         | 0.00         | 0.00         |
| 2                     | Mining            | 136.82            | 245.65        | 79.37         | 0.68         | 319.76            | 0.00         | 2.95         | 0.00         |
| 3                     | Manufacturing     | 805.75            | 105.60        | 115.66        | 106.54       | 621.98            | 111.11       | 60.89        | 82.78        |
| <b>Combined Index</b> |                   | <b>1000.00</b>    | <b>123.43</b> | <b>107.90</b> | <b>90.09</b> | <b>1000.00</b>    | <b>69.11</b> | <b>38.82</b> | <b>51.49</b> |

**Figure 4: Sector Level and Combined Annual Indices**

It may be observed that the combined Index of all the three sectors is considerably higher in the years 2011-2014 in comparison to the years 2019-22, which can be attributed to effects of the Covid19 pandemic.



#### 4.4. ELECTRICITY SECTOR

This sector is covered in the NIC 2008 under Division 35; Electricity, Gas, Steam and Air-condition supply. There is only one item covered under this sector i.e. Electric power generation, transmission and distribution. The Index of Industrial Production at 2-digit level and 4-digit level of NIC for the years 2019-20, 2020-21 & 2021-22 is given in Table No-4.4 below.

**TABLE NO-4.4**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**ELECTRICITY SECTOR (DIVISION / ITEM LEVEL ANNUAL INDICES)**  
**(BASE YEAR 2011-12=100)**

| Sl. No.                         | Item Code | NIC Code & Electricity Division / Item Description       | Weight       | Index       |             |             |
|---------------------------------|-----------|--|--------------|-------------|-------------|-------------|
|                                 |           |  |              | 2019-20     | 2020-21     | 2021-22     |
| 1                               | 2         | 3  | 4            | 5           | 6           | 7           |
|                                 | 35        | Electricity, Gas, Steam and Air-condition supply         | 58.26        | 0.00        | 0.00        | 0.00        |
| 1                               | 3510      | Electric power generation, transmission and distribution | 58.26        | 0.00        | 0.00        | 0.00        |
| <b>ELECTRICITY SECTOR INDEX</b> |           |  | <b>58.26</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

#### 4.5. MINING SECTOR

##### a) Mining Sector Division Level Annual Indices

The division level annual indices in the Mining Sector for the years 2019-20, 2020-21 & 2021-22 are given in Table No-4.5(A). It may be observed from the table that the index related to mining of metal ores has slightly increased to 2.95 during the year 2020-21, on account of auctioning of mining blocks by the State Government.

**TABLE NO-4.5(A)**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MINING SECTOR (DIVISION LEVEL ANNUAL INDICES)**  
**(BASE YEAR 2011-12=100)**

| Sl. No.                    | Item Code | NIC Code & Mining Division Description | Weight        | Index   |         |         |
|----------------------------|-----------|--|---------------|---------|---------|---------|
|                            |           |  |               | 2019-20 | 2020-21 | 2021-22 |
| 1                          | 2         | 3                                      | 4             | 5       | 6       | 7       |
| 1                          | 07.       | Mining of Metal Ores                   | 319.76        | 0.00    | 2.95    | 0.00    |
| <b>MINING SECTOR INDEX</b> |           |  | <b>319.76</b> | 0.00    | 2.95    | 0.00    |

**b) Mining Sector Month –wise Division Level Indices:**

The month-wise division level indices in respect of Mining Sector for the year 2019-20, 2020-21 & 2021-22 are given in Table No.4.5 (B). It may be observed that the index is almost Zero except for last five months of the FY 2020-21, due to closure of mining industries, which was contributing over 15% to the State Gross Domestic Product (GDP) during mining operations.

**TABLE NO-4.5(B)**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MINING SECTOR (MONTH WISE ANNUAL INDICES)**  
**(BASE YEAR 2011-12=100)**

| Month     | Index   |         |         |
|-----------|---------|---------|---------|
|           | 2019-20 | 2020-21 | 2021-22 |
| April     | 0.00    | 0.00    | 0.00    |
| May       | 0.00    | 0.00    | 0.00    |
| June      | 0.00    | 0.00    | 0.00    |
| July      | 0.00    | 0.00    | 0.00    |
| August    | 0.00    | 0.00    | 0.00    |
| September | 0.00    | 0.00    | 0.00    |
| October   | 0.00    | 0.00    | 0.00    |
| November  | 0.00    | 6.45    | 0.00    |
| December  | 0.00    | 6.95    | 0.00    |
| January   | 0.00    | 9.38    | 0.00    |
| February  | 0.00    | 6.17    | 0.00    |
| March     | 0.00    | 6.42    | 0.00    |

**c) Mining Sector Division Level Annual Indices:**

The product level annual indices in respect of Mining Sector for the years 2019-20, 2020-21 & 2021-22 is given in Table No-4.5(C). It may be noted that the Division 07: Mining of Metal Ores has been sub divided into two groups namely 071: Mining of iron ore and 072: Mining of non-ferrous metal ores.

**TABLE NO.4.5(C)**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MINING SECTOR (PRODUCT LEVEL ANNUAL INDICES)**  
**(BASE YEAR 2011-12=100)**

| Sl. No. | Item Code | NIC Code & Mining Division Description | Weight        | Index       |             |             |
|---------|-----------|--|---------------|-------------|-------------|-------------|
|         |           |  |               | 2019-20     | 2020-21     | 2021-22     |
| 1       | 2         | 3                                      | 4             | 5           | 6           | 7           |
|         |           | <b>07. Mining of Metal Ores</b>        | <b>319.76</b> | <b>0.00</b> | <b>2.95</b> | <b>0.00</b> |
| 1       | 0710      | Mining of Iron Ore                     | 318.76        | 0.00        | 2.96        | 0.00        |
| 2       | 0729      | Mining of Manganese Ore                | 0.1835        | 0.00        | 0.00        | 0.00        |
| 3       | 0729      | Mining of Aluminium Ore (Bauxite)      | 0.8201        | 0.00        | 0.00        | 0.00        |

## 4.6. MANUFACTURING SECTOR

### a) Manufacturing Sector Division Level Annual Indices

The division level annual indices in respect of Manufacturing Sector for the years 2019-20, 2020-21 & 2021-22 are given in Table No-4.6(A). It may be observed that, within the manufacturing sector, Division 28: Manufacture of Machinery & equipment carries a highest average Index of (289.81), followed by Division 26: Manufacture of computer, electronic & optical products (261.51) and 17: Manufacture of Paper and Paper Products (237.94). It may also be noted that Division 29: Manufacture of Motor Vehicles, trailers and Semi-trailers carries the least average Index of (9.11).

**TABLE NO-4.6(A)**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MANUFACTURING SECTOR (DIVISION LEVEL ANNUAL INDICES)**  
**(BASE YEAR 2011-12=100)**

| Sl. No.                           | NIC code | Manufacturing division description                                       | weight        | Index         |              |              |
|-----------------------------------|----------|--|---------------|---------------|--------------|--------------|
|                                   |          |  |               | 2019-20       | 2020-21      | 2021-22      |
| 1                                 | 10       | Manufacture of Food products   | 43.43         | 104.42        | 105.81       | 125.96       |
| 2                                 | 11       | Manufacture of Beverages   | 7.54          | 175.47        | 76.32        | 138.82       |
| 3                                 | 17       | Manufacture of Paper and Paper Products.                                 | 1.73          | 118.38        | 280.34       | 315.11       |
| 4                                 | 18       | Printing and reproduction of recorded media                              | 3.51          | 62.10         | 37.00        | 30.96        |
| 5                                 | 19       | Manufacture of Coke, refined petroleum products and nuclear fuel         | 3.65          | 134.32        | 118.35       | 138.43       |
| 6                                 | 20       | Manufacture of Chemicals and Chemical products                           | 37.17         | 67.26         | 96.40        | 87.06        |
| 7                                 | 21       | Manufacture of Pharmaceuticals medicinal chemical and botanical products | 135.69        | 283.91        | 55.02        | 160.38       |
| 8                                 | 22       | Manufacture of Rubber and Plastic products                               | 96.98         | 81.74         | 74.05        | 87.92        |
| 9                                 | 23       | Manufacture of other Non-metallic mineral products                       | 7.78          | 56.81         | 37.70        | 47.21        |
| 10                                | 24       | Manufacture of Basic Metals  | 245.06        | 31.80         | 26.56        | 8.10         |
| 11                                | 25       | Manufacture of Fabricated metal products, except machinery and equipment | 3.42          | 17.53         | 41.66        | 34.61        |
| 12                                | 26       | Manufacture of computer, electronic and optical products                 | 5.77          | 246.83        | 284.36       | 253.34       |
| 13                                | 27       | Manufacture of Electrical equipment                                      | 9.90          | 113.93        | 139.19       | 217.78       |
| 14                                | 28       | Manufacture of Machinery & equipment                                     | 6.72          | 211.13        | 250.43       | 407.87       |
| 15                                | 29       | Manufacture of Motor Vehicles, trailers and Semi-trailers                | 3.35          | 18.53         | 5.75         | 3.06         |
| 16                                | 30       | Manufacture of other Transport equipment                                 | 5.07          | 58.95         | 233.51       | 149.65       |
| 17                                | 31       | Manufacture of Furniture   | 0.30          | 83.63         | 27.80        | 47.31        |
| 18                                | 32       | Other Manufacture  | 4.92          | 149.30        | 115.99       | 137.99       |
| <b>Manufacturing Sector Index</b> |          |  | <b>621.98</b> | <b>111.11</b> | <b>60.89</b> | <b>82.78</b> |

## b) Manufacturing Sector Product Level Annual Indices

The product level annual indices in respect of Manufacturing Sector under different 2-Digit divisions for the years 2019-20, 2020-21 & 2021-22 are given in Table No-4.6(B) below:

**TABLE NO-4.6(B)**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MANUFACTURING SECTOR (PRODUCT LEVEL ANNUAL INDICES)**  
**(BASE YEAR 2011-12 = 100)**

| Sr. No. | Item Code | Item Description  | Weight       | 2019-20       | 2020-21       | 2021-22       |
|---------|-----------|---|--------------|---------------|---------------|---------------|
| 1       | 2         | 3   | 4            | 5             | 6             | 7             |
|         |           | <b>10. Manufacture of food Products</b>   | <b>43.43</b> | <b>104.42</b> | <b>105.81</b> | <b>125.96</b> |
| 1       | 1020      | i) Fish Meat, Fresh Fish Frozen or otherwise                                      | 2.32         | 39.69         | 55.13         | 73.39         |
| 2       | 1050      | ii) Milk Sskimmed or pasteurised, non-flavoured                                   | 0.70         | 89.38         | 81.64         | 83.84         |
| 3       | 1050      | iii) Ice-cream  | 0.23         | 115.18        | 61.23         | 87.93         |
| 4       | 1061      | iv) Wheat flour   | 0.04         | 129.95        | 118.46        | 129.38        |
| 5       | 1071      | v) Cashew-nut and shelled   | 5.07         | 42.40         | 40.89         | 51.51         |
| 6       | 1073      | vi) Chocolate and other food preparation containing cocoa(except sweetened cocoa) | 20.36        | 145.94        | 137.46        | 170.63        |
| 7       | 1074      | vii) Noodles  | 14.72        | 79.01         | 94.14         | 100.64        |
|         |           | <b>11.Manufacture of beverage</b>   | <b>7.54</b>  | <b>175.47</b> | <b>76.32</b>  | <b>138.82</b> |
| 8       | 1103      | i) Alcholic Beverages   | 5.33         | 150.79        | 64.85         | 146.58        |
| 9       | 1104      | ii) Soft drink carbonated beverage other than soda water                          | 2.22         | 234.78        | 103.88        | 120.19        |
|         |           | <b>17. Manufacture of Paper and Paper Products.</b>                               | <b>1.73</b>  | <b>118.38</b> | <b>280.34</b> | <b>315.11</b> |
| 10      | 1702      | i) Corrugated paper board   | 0.60         | 55.60         | 35.58         | 39.33         |
| 11      | 1702      | ii) Boxes, Corrugated sheets  | 0.46         | 103.10        | 871.32        | 919.99        |
| 12      | 1702      | iii) Cardboard Boxes  | 0.67         | 184.81        | 99.05         | 152.11        |
|         |           | <b>18.Printing and reproduction of recorded media</b>                             | <b>3.51</b>  | <b>62.10</b>  | <b>37.00</b>  | <b>30.96</b>  |
| 13      | 1811      | i) Newspaper and daily  | 3.51         | 62.10         | 37.00         | 30.96         |
|         |           | <b>19.Manufacture of Coke, refined petroleum products</b>                         | <b>3.65</b>  | <b>134.32</b> | <b>118.35</b> | <b>138.43</b> |
| 14      | 1920      | i) Liquefied Petroleum gas (LPG)  | 2.61         | 135.36        | 127.22        | 137.93        |
| 15      | 1920      | ii) Petroleum coke calcined   | 1.04         | 131.71        | 96.04         | 139.69        |

CONT'D...



**TABLE NO-4.6(B)**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MANUFACTURING SECTOR (PRODUCT LEVEL ANNUAL INDICES)**  
**(BASE YEAR 2011-12 = 100)**

| Sr. No. | Item Code | Item Description   | Weight        | 2019-20       | 2020-21      | 2021-22       |
|---------|-----------|--|---------------|---------------|--------------|---------------|
| 1       | 2         | 3  | 4             | 5             | 6            | 7             |
|         |           | <b>20 .Manufacture of Chemicals and Chemical products</b>                            | <b>37.17</b>  | <b>67.26</b>  | <b>96.40</b> | <b>87.06</b>  |
| 16      | 2012      | i) Urea  | 16.69         | 63.66         | 127.52       | 118.72        |
| 17      | 2023      | ii) Soap toilet (excluding baby soap)  | 5.68          | 0.02          | 0.05         | 0.05          |
| 18      | 2023      | iii) Toothpaste, non-medicated   | 14.80         | 97.13         | 98.27        | 84.74         |
|         |           | <b>21. Manufacture of Pharmaceuticals medicinal Chemical and botanical Products</b>  | <b>135.69</b> | <b>283.91</b> | <b>55.02</b> | <b>160.38</b> |
| 19      | 2100      | i) Doxycycline / Minocycline   | 8.27          | 31.43         | 0.002        | 0.003         |
| 20      | 2100      | ii) Metronidazole with/ out, norfloxacin   | 3.85          | 6.30          | 9.57         | 3.58          |
| 21      | 2100      | iii) Vitamin E (tocophero) And Other vitamin in tablet or injectable form            | 16.10         | 2.42          | 2.37         | 2.13          |
| 22      | 2100      | iv) Anti cancer and Anti Malaria   | 68.77         | 82.42         | 14.95        | 215.97        |
| 23      | 2100      | v) Anti-diabetic drugs excluding insulin ( metformin, pioglitazone, glimepiride etc) | 5.22          | 177.99        | 209.60       | 91.95         |
| 24      | 2100      | vi) Anti hitamine,antistine antitussive (codeine ect)prep                            | 10.10         | 36.66         | 16.31        | 3.75          |
| 25      | 2100      | vii) Lisinopril/ramipril/enalapril maleate a.c.e inhibitor                           | 6.21          | 1.80          | 12.81        | 12.45         |
| 26      | 2100      | viii) Ointments,allopathic   | 11.68         | 2440.81       | 131.94       | 193.66        |
| 27      | 2100      | ix) Capsules Plastic   | 5.49          | 494.01        | 635.16       | 730.04        |
|         |           | <b>22.Manufacture of Rubber and Plastic products</b>                                 | <b>96.98</b>  | <b>81.74</b>  | <b>74.05</b> | <b>87.92</b>  |
| 28      | 2211      | i) Tyre/tube other   | 36.21         | 121.77        | 107.08       | 96.13         |
| 29      | 2211      | ii) Flaps rubber   | 10.67         | 145.11        | 112.30       | 159.77        |
| 30      | 2220      | iii) Container plastic   | 15.76         | 116.68        | 108.09       | 102.54        |
| 31      | 2220      | iv) Plastic bottle caps  | 34.34         | 3.79          | 11.72        | 50.22         |
|         |           | <b>23.Manufacture of other Non-metallic mineral products</b>                         | <b>7.78</b>   | <b>56.81</b>  | <b>37.70</b> | <b>47.21</b>  |
| 32      | 2394      | i) Cement, Portland  | 3.85          | 67.94         | 54.56        | 59.29         |
| 33      | 2395      | ii) Other article of cement, concrete or artificial                                  | 3.93          | 45.91         | 21.19        | 35.38         |
|         |           | <b>24.Manufacture of Basic Metals</b>  | <b>245.06</b> | <b>31.80</b>  | <b>26.56</b> | <b>8.10</b>   |
| 34      | 2410      | i) Ingots iron   | 231.53        | 29.83         | 24.67        | 5.95          |
| 35      | 2420      | ii) Manganese dioxide  | 9.68          | 49.63         | 38.67        | 23.39         |
| 36      | 2420      | iii) Aluminum tube, pipes aloyed   | 3.16          | 104.85        | 104.56       | 95.95         |
| 37      | 2431      | iv) Cast iron  | 0.51          | 126.89        | 151.35       | 114.77        |
| 38      | 2431      | v) Valves, industrial  | 0.17          | 59.01         | 73.72        | 117.72        |

CONT'D...

**TABLE NO-4.6(B)**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MANUFACTURING SECTOR (PRODUCT LEVEL ANNUAL INDICES)**  
**(BASE YEAR 2011-12 = 100)**

| Sr. No. | Item Code | Item Description   | Weight      | 2019-20       | 2020-21       | 2021-22       |
|---------|-----------|--|-------------|---------------|---------------|---------------|
| 1       | 2         | 3  | 4           | 5             | 6             | 7             |
|         |           | <b>25.Manufacture of Fabricated metal products, except Machinery and equipments</b>  | <b>3.42</b> | <b>17.53</b>  | <b>41.66</b>  | <b>34.61</b>  |
| 39      | 2511      | i) Hume pipes  | 0.23        | 32.65         | 15.84         | 25.23         |
| 40      | 2511      | ii) Buckets, shovelsgrabs and the like   | 0.18        | 275.95        | 387.29        | 473.18        |
| 41      | 2592      | iii) Artificial graphite, colloidal or semi-colloidal graphite preparations based on graphite or other                           | 0.55        | -             | -             | -             |
| 42      | 2593      | iv) Saw & Saw blades   | 2.47        | 0.76          | 27.46         | 10.42         |
|         |           | <b>26.Manufacture of computer, electronic and optical products</b>   | <b>5.77</b> | <b>246.83</b> | <b>284.36</b> | <b>253.34</b> |
| 43      | 2610      | i) Capacitor, metalized poly film  | 2.54        | 469.93        | 501.35        | 486.58        |
| 44      | 2620      | ii) Computer Peripherals   | 0.22        | 25.46         | 9.64          | 14.45         |
| 45      | 2630      | iii) Toys plastic moulded other  | 0.48        | 219.52        | 553.92        | 351.65        |
| 46      | 2651      | iv) Instruments and apparatus for measuring or checking the flow, level, pressure or their variables of liquids or gases, except | 1.82        | 57.63         | 49.28         | 24.20         |
| 47      | 2651      | v) Machines and appliances for testing the mechanical properties of materials  | 0.71        | 18.68         | 12.59         | 12.13         |
|         |           | <b>27.Manufacture of Electrical equipment</b>  | <b>9.90</b> | <b>113.93</b> | <b>139.19</b> | <b>217.78</b> |
| 48      | 2710      | i) Centrifuge motors or Electrical motors  | 1.39        | 93.72         | 104.86        | 116.55        |
| 49      | 2710      | ii) Parts of electricity distribution of control appartus  | 0.38        | 155.53        | 88.46         | 0.18          |
| 50      | 2731      | iii) Optical fibre cables made up of individually sheaterd   | 5.72        | 93.85         | 129.99        | 294.01        |
| 51      | 2750      | iv) Electric Fans and ventilating or recycling hoods of the domestic type  | 2.17        | 172.60        | 198.54        | 133.01        |
| 52      | 2790      | v) Fabricated metal product  | 0.12        | 53.62         | 66.79         | 1.48          |
| 53      | 2790      | vi) Instruments and apparatus(except cathode-ray oscilloscopes and oscillegraphs) for telecommunications                         | 0.11        | 182.00        | 136.12        | 191.03        |
|         |           | <b>28.Manufacture of Machinery &amp; equipment</b>   | <b>6.72</b> | <b>211.13</b> | <b>250.43</b> | <b>407.87</b> |
| 54      | 2811      | i) Internal combustion piston engines other  | 1.18        | 38.58         | 210.57        | 915.47        |
| 55      | 2813      | ii) Concrete pump  | 1.34        | 115.35        | 91.71         | 136.44        |
| 56      | 2821      | iii) Washing machine/laundry machine   | 4.20        | 289.95        | 312.18        | 352.39        |

CONT'D...

**TABLE NO-4.6(B)**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MANUFACTURING SECTOR (PRODUCT LEVEL ANNUAL INDICES)**  
**(BASE YEAR 2011-12 = 100)**

| Sr. No.   | Item Code | Item Description   | Weight      | 2019-20       | 2020-21       | 2021-22       |
|-----------|-----------|--|-------------|---------------|---------------|---------------|
| 1         | 2         | 3  | 4           | 5             | 6             | 7             |
|           |           | <b>29.Manufacture of Motor Vehicles, trailers and Semi-Trailers and semi trail</b> | <b>3.35</b> | <b>18.53</b>  | <b>5.75</b>   | <b>3.06</b>   |
| <b>57</b> | 2920      | i) Body for other vehicle  | 3.13        | 9.75          | 3.25          | -             |
| <b>58</b> | 2930      | ii) Seat for motor vehicle   | 0.21        | 148.06        | 42.62         | 48.25         |
|           |           | <b>30.Manufacture of other Transport equipment</b>                                 | <b>5.07</b> | <b>58.95</b>  | <b>233.51</b> | <b>149.65</b> |
| <b>59</b> | 3011      | i) Other vessels for the transport of goods and other vessels for the transport    | 2.76        | 100.00        | 400.00        | 250.00        |
| <b>60</b> | 3011      | ii) Barges excl. hopper  | 2.31        | 10.00         | 35.00         | -             |
|           |           | <b>31.Manufacture of Furniture</b>   | <b>0.30</b> | <b>83.63</b>  | <b>27.80</b>  | <b>47.31</b>  |
| <b>61</b> | 3100      | i) Chair steel office  | 0.16        | 148.56        | 23.75         | 44.22         |
| <b>62</b> | 3100      | ii) Table & desks iron/steel   | 0.14        | 7.41          | 32.56         | 50.94         |
|           |           | <b>32.Other Manufacture</b>  | <b>4.92</b> | <b>149.30</b> | <b>115.99</b> | <b>137.99</b> |
| <b>63</b> | 3250      | i) Lens, ophthalmic  | 1.04        | 173.61        | 107.60        | 126.57        |
| <b>64</b> | 3250      | ii) Toothbrush   | 3.88        | 142.75        | 118.25        | 141.07        |

**c) Monthly Growth rate of IIP in Manufacturing Sector during 2021-22 over 2019-20.**

The Table-4.6(C) reflects monthly growth rate of IIP during course of Covid19 period (2021-22) over pre Covid19 period (2019-20) in Manufacturing Sector.

**TABLE NO-4.6(C)**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MONTHLY GROWTH RATE DURING 2021-22 OVER 2019-20**  
**(BASE YEAR 2011-12 = 100)**

| Sl.No.   | Month/Sector | Manufacturing |         |                 |
|----------|--------------|---------------|---------|-----------------|
|          |              | 2019-20       | 2021-22 | Growth Rate (%) |
| <b>1</b> | April        | 110.55        | 72.47   | -34.45          |
| <b>2</b> | May          | 126.59        | 126.96  | 0.29            |
| <b>3</b> | June         | 109.87        | 61.45   | -44.07          |
| <b>4</b> | July         | 118.22        | 63.78   | -46.05          |
| <b>5</b> | August       | 103.57        | 136.13  | 31.44           |
| <b>6</b> | September    | 91.07         | 51.46   | -43.49          |

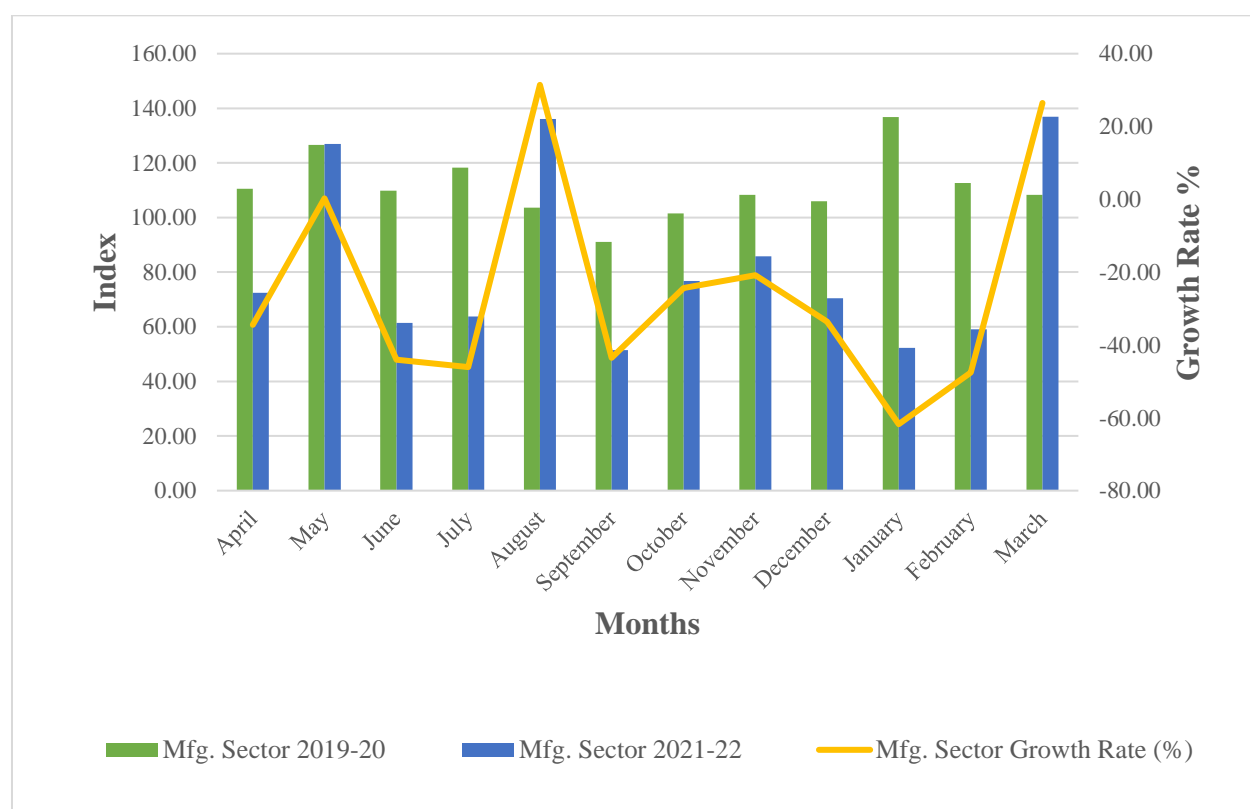
**CONT'D...**

**TABLE NO-4.6(C)**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MONTHLY GROWTH RATE DURING 2021-22 OVER 2019-20**  
**(BASE YEAR 2011-12 = 100)**

| Sl.No. | Month/Sector | Manufacturing |         |                 |
|--------|--------------|---------------|---------|-----------------|
|        |              | 2019-20       | 2021-22 | Growth Rate (%) |
| 7      | October      | 101.46        | 76.73   | -24.37          |
| 8      | November     | 108.34        | 85.78   | -20.82          |
| 9      | December     | 105.93        | 70.40   | -33.54          |
| 10     | January      | 136.81        | 52.33   | -61.75          |
| 11     | February     | 112.68        | 59.13   | -47.52          |
| 12     | March        | 108.25        | 136.86  | 26.43           |

**Figure 5: Monthly Growth Rate of IIP during 2021-22 over 2019-20**

The Fig-5 presents the growth rate of IIP during course of Covid19 period (2021-22) over pre Covid19 period (2019-20) in Manufacturing Sector. It depicts a negative impact on production volume due to pandemic, except in the month of August & March of FY 2021-22. This indicates overall low scale operations during course of Covid19 period.



**ANNEXURE I**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**SECTOR LEVEL AND COMBINED MONTHLY INDICES FOR THE YEAR 2019-2020**  
**(BASE YEAR 2011-2012=100)**

| Sl. No.        | Industrial Sector   | Weight  | 2019-2020 |        |        |        |        |       |        |        |        |        |        |        |
|----------------|---------------------|---------|-----------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
|                |                     |         | 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   | 58.26   | 0.00      | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| 2              | Mining Index        | 319.76  | 0.00      | 0.00   | 0.00   | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   |
| 3              | Manufacturing Index | 621.98  | 110.55    | 126.59 | 109.87 | 118.22 | 103.57 | 91.07 | 101.46 | 108.34 | 105.93 | 136.81 | 112.68 | 108.25 |
| Combined Index |                     | 1000.00 | 68.76     | 78.73  | 68.34  | 73.53  | 64.42  | 56.65 | 63.11  | 67.38  | 65.88  | 85.09  | 70.08  | 67.33  |

**ANNEXURE II**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**SECTOR LEVEL AND COMBINED MONTHLY INDICES FOR THE YEAR 2020-2021**  
**(BASE YEAR 2011-2012=100)**

| Sl. No.        | Industrial Sector   | Weight  | 2020-2021 |       |       |       |       |       |       |       |       |       |       |       |
|----------------|---------------------|---------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                |                     |         | 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   | 58.26   | 0.00      | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| 2              | Mining Index        | 319.76  | 0.00      | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 6.45  | 6.95  | 9.38  | 6.17  | 6.42  |
| 3              | Manufacturing Index | 621.98  | 24.10     | 66.96 | 62.04 | 46.29 | 55.97 | 73.85 | 64.15 | 63.94 | 58.43 | 69.26 | 75.34 | 70.37 |
| Combined Index |                     | 1000.00 | 14.99     | 41.65 | 38.59 | 28.79 | 34.81 | 45.93 | 39.90 | 41.84 | 38.56 | 46.08 | 48.84 | 45.82 |

**ANNEXURE III**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**SECTOR LEVEL AND COMBINED MONTHLY INDICES FOR THE YEAR 2021-2022**  
**(BASE YEAR 2011-2012=100)**

| Sl. No.        | Industrial Sector   | Weight  | 2021-2022 |        |       |       |        |       |       |       |       |       |       |        |
|----------------|---------------------|---------|-----------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|--------|
|                |                     |         | 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   | 58.26   | 0.00      | 0.00   | 0.00  | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   |
| 2              | Mining Index        | 319.76  | 0.00      | 0.00   | 0.00  | 0.00  | 0.00   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   |
| 3              | Manufacturing Index | 621.98  | 72.47     | 126.96 | 61.45 | 63.78 | 136.13 | 51.46 | 76.73 | 85.78 | 70.40 | 52.33 | 59.13 | 136.86 |
| Combined Index |                     | 1000.00 | 45.07     | 78.96  | 38.22 | 39.67 | 84.67  | 32.01 | 47.72 | 53.36 | 43.78 | 32.55 | 36.78 | 85.12  |



**ANNEXURE IV**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MINING SECTOR MONTHWISE DIVISION LEVEL INDICES FOR THE YEAR 2019-2020**  
**(BASE YEAR 2011-2012=100)**

| Sl. No.             | NIC Code & Mining Division Description | Weight | Year 2019-2020 |      |      |      |      |      |      |      |      |      |      |      | 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                   | 07. Mining of Metal Ore                | 319.76 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    |
| MINING SECTOR INDEX |  | 319.76 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    |

**ANNEXURE V**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MINING SECTOR MONTHWISE DIVISION LEVEL INDICES FOR THE YEAR 2020-2021**  
**(BASE YEAR 2011-2012=100)**

| Sl. No.             | NIC Code & Mining Division Description | Weight | Year 2020-2021 |      |      |      |      |      |      |      |      |      |      |      | 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      |
|                     | 07. Mining of Metal Ore                | 319.76 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.45 | 6.95 | 9.38 | 6.17 | 6.42 | 2.95    |
| MINING SECTOR INDEX |  | 319.76 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.45 | 6.95 | 9.38 | 6.17 | 6.42 | 2.95    |

**ANNEXURE VI**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MINING SECTOR MONTHWISE DIVISION LEVEL INDICES FOR THE YEAR 2021-2022**  
**(BASE YEAR 2011-2012=100)**

| Sl. No.             | NIC Code & Mining Division Description | Weight | Year 2021-2022 |      |      |      |      |      |      |      |      |      |      |      | 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                   | 07. Mining of Metal Ore                | 319.76 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    |
| MINING SECTOR INDEX |  | 319.76 | 0.00           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    |

**ANNEXURE VII**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MANUFACTURING SECTOR (MONTH-WISE DIVISION LEVEL INDICES FOR THE YEAR 2019-2020) (Base Year 2011-2012 = 100)**

| NIC code | Manufacturing division description                                       | April         | May           | June          | July          | Aug.          | Sep.         | Oct.          | Nov.          | Dec.          | Jan.          | Feb.          | March         | Average       |
|----------|--|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 10       | Manufacture of Food products   | 105.25        | 102.26        | 94.08         | 109.26        | 100.84        | 101.75       | 111.15        | 109.24        | 108.01        | 122.20        | 111.82        | 77.19         | <b>104.42</b> |
| 11       | Manufacture of Beverages   | 224.32        | 294.87        | 174.49        | 97.13         | 90.29         | 60.79        | 112.11        | 155.67        | 128.01        | 567.42        | 123.92        | 77.32         | <b>175.47</b> |
| 17       | Manufacture of Paper and Paper Products.                                 | 132.62        | 101.52        | 109.64        | 111.93        | 121.56        | 102.92       | 112.65        | 130.49        | 128.72        | 159.38        | 122.95        | 88.61         | <b>118.38</b> |
| 18       | Printing and reproduction of recorded media                              | 64.19         | 66.09         | 63.60         | 66.93         | 67.13         | 62.37        | 60.25         | 57.32         | 73.61         | 59.61         | 55.85         | 47.99         | <b>62.10</b>  |
| 19       | Manufacture of Coke, refined petroleum products and nuclear fuel         | 132.81        | 106.94        | 132.00        | 146.55        | 164.88        | 131.94       | 119.84        | 117.33        | 149.95        | 156.33        | 107.82        | 144.34        | <b>134.32</b> |
| 20       | Manufacture of Chemicals and Chemical products                           | 95.92         | 96.40         | 79.76         | 50.72         | 43.67         | 34.60        | 43.85         | 44.78         | 47.12         | 85.02         | 94.91         | 90.47         | <b>67.26</b>  |
| 21       | Manufacture of Pharmaceuticals medicinal chemical and botanical products | 212.71        | 269.34        | 225.53        | 296.17        | 288.18        | 244.36       | 273.96        | 307.37        | 291.29        | 369.84        | 294.67        | 333.50        | <b>283.91</b> |
| 22       | Manufacture of Rubber and Plastic products                               | 84.44         | 91.28         | 90.51         | 95.81         | 83.51         | 61.90        | 77.37         | 81.93         | 82.48         | 88.43         | 84.66         | 58.96         | <b>81.74</b>  |
| 23       | Manufacture of other Non-metallic mineral products                       | 75.67         | 77.17         | 51.01         | 41.92         | 49.00         | 39.17        | 51.66         | 56.17         | 72.43         | 61.21         | 63.72         | 42.48         | <b>56.81</b>  |
| 24       | Manufacture of Basic Metals  | 62.56         | 64.60         | 51.88         | 44.41         | 18.69         | 20.59        | 19.40         | 19.02         | 18.51         | 20.53         | 24.46         | 16.97         | <b>31.80</b>  |
| 25       | Manufacture of Fabricated metal products, except machinery and equipment | 16.09         | 19.68         | 22.45         | 8.77          | 21.37         | 6.88         | 9.01          | 20.34         | 10.38         | 25.14         | 29.43         | 21.02         | <b>17.53</b>  |
| 26       | Manufacture of computer, electronic and optical                          | 251.26        | 293.04        | 228.88        | 218.24        | 175.15        | 207.99       | 206.45        | 227.77        | 261.49        | 337.11        | 303.57        | 253.10        | <b>246.83</b> |
| 27       | Manufacture of electrical equipment                                      | 122.01        | 146.98        | 97.05         | 86.42         | 105.68        | 116.54       | 91.83         | 76.25         | 114.65        | 119.35        | 179.23        | 110.48        | <b>113.93</b> |
| 28       | Manufacture of Machinery and equipment n.e.c                             | 187.50        | 254.94        | 236.33        | 246.18        | 231.07        | 299.39       | 318.30        | 188.99        | 181.74        | 168.76        | 144.09        | 74.51         | <b>211.13</b> |
| 29       | Manufacture of Motor vehicles, trailer and semi-trailers                 | 23.91         | 21.43         | 20.85         | 27.94         | 25.93         | 6.83         | 19.63         | 4.47          | 19.94         | 14.04         | 24.61         | 12.46         | <b>18.53</b>  |
| 30       | Manufacture of other Transport equipment                                 | 27.37         | -             | 326.34        | -             | -             | -            | -             | -             | 27.37         | 326.34        | -             | -             | <b>58.95</b>  |
| 31       | Manufacture of Furniture   | 54.87         | 193.55        | 365.53        | 91.75         | 47.64         | 38.41        | 48.60         | 20.18         | 27.52         | 14.87         | 13.66         | 86.97         | <b>83.63</b>  |
| 32       | Other Manufacture  | 165.29        | 163.49        | 164.55        | 121.46        | 151.24        | 136.50       | 158.77        | 156.56        | 144.81        | 198.26        | 122.45        | 108.21        | <b>149.30</b> |
|          | <b>MANUFACTURING SECTOR INDEX</b>  | <b>110.55</b> | <b>126.59</b> | <b>109.87</b> | <b>118.22</b> | <b>103.57</b> | <b>91.07</b> | <b>101.46</b> | <b>108.34</b> | <b>105.93</b> | <b>136.81</b> | <b>112.68</b> | <b>108.25</b> | <b>111.11</b> |

**ANNEXURE VIII**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MANUFACTURING SECTOR (MONTH-WISE DIVISION LEVEL INDICES FOR THE YEAR 2020-2021) (Base Year 2011-2012 = 100)**

| NIC code | Manufacturing division description                                       | April        | May          | June         | July         | Aug.         | Sep.         | Oct.         | Nov.         | Dec.         | Jan.         | Feb.         | March        | Average       |
|----------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 10       | Manufacture of Food products   | 24.91        | 91.34        | 107.03       | 120.60       | 121.70       | 118.46       | 125.93       | 125.26       | 53.32        | 141.91       | 119.75       | 119.46       | <b>105.81</b> |
| 11       | Manufacture of Beverages   | 36.24        | 186.72       | 76.84        | 39.88        | 56.61        | 71.15        | 57.13        | 94.35        | 78.27        | 89.82        | 72.41        | 56.71        | <b>76.32</b>  |
| 17       | Manufacture of Paper and Paper Products.                                 | 173.03       | 259.20       | 356.78       | 355.86       | 309.44       | 320.18       | 300.15       | 245.43       | 263.78       | 245.21       | 260.37       | 280.25       | <b>280.34</b> |
| 18       | Printing and reproduction of recorded media                              | 21.85        | 31.31        | 79.37        | 36.60        | 35.45        | 34.80        | 38.27        | 37.24        | 30.09        | 33.30        | 30.84        | 34.70        | <b>37.00</b>  |
| 19       | Manufacture of Coke, refined petroleum products and nuclear fuel         | 95.38        | 139.02       | 98.75        | 125.04       | 142.86       | 93.29        | 97.91        | 137.48       | 150.89       | 142.25       | 93.53        | 102.84       | <b>118.35</b> |
| 20       | Manufacture of Chemicals and Chemical products                           | 71.13        | 109.27       | 110.38       | 110.69       | 94.46        | 100.00       | 69.07        | 88.56        | 102.73       | 102.94       | 97.02        | 100.63       | <b>96.40</b>  |
| 21       | Manufacture of Pharmaceuticals medicinal chemical and botanical products | 53.13        | 124.55       | 54.84        | 26.73        | 52.99        | 56.00        | 65.94        | 55.78        | 27.53        | 55.84        | 60.30        | 26.62        | <b>55.02</b>  |
| 22       | Manufacture of Rubber and Plastic products                               | 7.02         | 65.78        | 99.11        | 23.83        | 58.89        | 86.38        | 85.43        | 83.45        | 91.85        | 96.87        | 95.24        | 94.80        | <b>74.05</b>  |
| 23       | Manufacture of other Non-metallic mineral products                       | 14.65        | 55.25        | 26.07        | 22.62        | 22.21        | 25.28        | 32.44        | 35.95        | 52.79        | 61.17        | 50.77        | 53.09        | <b>37.70</b>  |
| 24       | Manufacture of Basic Metals  | 6.02         | 20.68        | 24.69        | 25.19        | 26.48        | 32.08        | 28.82        | 28.29        | 29.31        | 28.83        | 32.35        | 35.94        | <b>26.56</b>  |
| 25       | Manufacture of Fabricated metal products, except machinery and equipment | 1.27         | 17.43        | 44.94        | 37.74        | 43.71        | 47.25        | 42.33        | 71.17        | 67.84        | 23.98        | 73.15        | 29.49        | <b>41.66</b>  |
| 26       | Manufacture of computer, electronic and optical                          | 21.02        | 188.19       | 357.36       | 347.41       | 234.67       | 303.54       | 149.78       | 299.97       | 337.64       | 398.93       | 366.24       | 410.65       | <b>284.36</b> |
| 27       | Manufacture of electrical equipment                                      | 26.83        | 51.07        | 116.14       | 131.09       | 126.37       | 157.34       | 154.30       | 163.08       | 182.54       | 179.24       | 164.31       | 217.17       | <b>139.19</b> |
| 28       | Manufacture of Machinery and equipment n.e.c                             | 4.41         | 23.65        | 115.03       | 206.94       | 225.94       | 361.69       | 381.48       | 339.21       | 305.13       | 283.67       | 156.96       | 598.92       | <b>250.43</b> |
| 29       | Manufacture of Motor vehicles, trailer and semi-trailers                 | -            | 1.29         | 2.22         | 25.56        | 0.84         | 3.19         | 4.39         | 9.59         | 6.88         | 3.70         | 2.12         | 9.11         | <b>5.75</b>   |
| 30       | Manufacture of other Transport equipment                                 | 27.37        | -            | -            | 27.37        | -            | 979.03       | 27.37        | -            | 326.34       | 27.37        | 1,006.40     | 381.09       | <b>233.51</b> |
| 31       | Manufacture of Furniture   | 0.94         | 26.63        | 42.65        | 48.76        | 18.33        | 43.22        | 14.63        | 12.77        | 12.80        | 11.12        | 43.78        | 57.98        | <b>27.80</b>  |
| 32       | Other Manufacture  | 46.98        | 111.48       | 109.70       | 120.24       | 114.37       | 121.88       | 124.95       | 100.98       | 112.33       | 127.21       | 143.06       | 158.68       | <b>115.99</b> |
|          | <b>MANUFACTURING SECTOR INDEX</b>  | <b>24.10</b> | <b>66.96</b> | <b>62.04</b> | <b>46.29</b> | <b>55.97</b> | <b>73.85</b> | <b>64.15</b> | <b>63.94</b> | <b>58.43</b> | <b>69.26</b> | <b>75.34</b> | <b>70.37</b> | <b>60.89</b>  |

**ANNEXURE IX**  
**INDEX OF INDUSTRIAL PRODUCTION**  
**MANUFACTURING SECTOR (MONTH-WISE DIVISION LEVEL INDICES FOR THE YEAR 2021-2022) (Base Year 2011-2012 = 100)**

| NIC code | Manufacturing division description                                       | April        | May           | June         | July         | Aug.          | Sep.         | Oct.         | Nov.         | Dec.         | Jan.         | Feb.         | March         | Average       |
|----------|--|--------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| 10       | Manufacture of Food products   | 124.55       | 120.21        | 124.42       | 136.29       | 142.55        | 128.29       | 137.21       | 129.00       | 135.42       | 156.87       | 45.11        | 131.58        | <b>125.96</b> |
| 11       | Manufacture of Beverages   | 125.55       | 11.86         | 37.79        | 59.05        | 58.32         | 69.94        | 101.18       | 115.07       | 735.34       | 87.66        | 90.38        | 174.24        | <b>138.82</b> |
| 17       | Manufacture of Paper and Paper Products.                                 | 322.25       | 307.26        | 295.45       | 444.63       | 365.31        | 242.46       | 523.81       | 255.55       | 89.95        | 330.33       | 342.59       | 268.04        | <b>315.11</b> |
| 18       | Printing and reproduction of recorded media                              | 31.63        | 27.74         | 28.09        | 30.88        | 33.19         | 30.89        | 34.44        | 33.36        | 35.82        | 27.96        | 26.31        | 31.03         | <b>30.96</b>  |
| 19       | Manufacture of Coke, refined petroleum products and nuclear fuel         | 121.01       | 129.27        | 90.47        | 144.53       | 154.37        | 142.28       | 121.57       | 151.18       | 160.33       | 157.03       | 127.86       | 160.04        | <b>138.43</b> |
| 20       | Manufacture of Chemicals and Chemical products                           | 92.65        | 30.00         | 67.22        | 98.79        | 98.83         | 88.44        | 102.03       | 92.79        | 96.99        | 94.73        | 88.17        | 94.21         | <b>87.06</b>  |
| 21       | Manufacture of Pharmaceuticals medicinal chemical and botanical products | 45.77        | 353.05        | 45.65        | 74.54        | 390.53        | 49.98        | 138.16       | 189.35       | 82.50        | 67.84        | 65.75        | 421.42        | <b>160.38</b> |
| 22       | Manufacture of Rubber and Plastic products                               | 92.19        | 93.93         | 107.56       | 102.01       | 129.54        | 78.87        | 98.81        | 75.95        | 85.61        | 33.64        | 77.57        | 79.81         | <b>87.92</b>  |
| 23       | Manufacture of other Non-metallic mineral products                       | 52.31        | 36.73         | 46.12        | 33.20        | 47.30         | 38.71        | 49.34        | 43.01        | 49.75        | 55.63        | 52.69        | 61.61         | <b>47.21</b>  |
| 24       | Manufacture of Basic Metals  | 39.41        | 32.12         | 2.64         | 1.22         | 1.38          | 2.40         | 2.38         | 3.36         | 3.44         | 3.10         | 2.09         | 3.68          | <b>8.10</b>   |
| 25       | Manufacture of Fabricated metal products, except machinery and equipment | 40.76        | 35.91         | 37.49        | 25.87        | 56.05         | 23.95        | 28.06        | 40.35        | 22.42        | 27.38        | 21.59        | 55.78         | <b>34.61</b>  |
| 26       | Manufacture of computer, electronic and optical                          | 358.04       | 166.35        | 247.75       | 287.71       | 262.40        | 83.10        | 156.29       | 244.86       | 302.97       | 250.11       | 296.62       | 386.66        | <b>253.34</b> |
| 27       | Manufacture of electrical equipment                                      | 179.79       | 117.95        | 146.36       | 156.43       | 182.62        | 249.12       | 223.15       | 248.75       | 296.65       | 280.97       | 302.24       | 228.05        | <b>217.78</b> |
| 28       | Manufacture of Machinery and equipment n.e.c                             | 624.03       | 492.85        | 1154.98      | 324.49       | 375.36        | 364.07       | 381.20       | 251.75       | 246.41       | 220.63       | 253.85       | 201.42        | <b>407.87</b> |
| 29       | Manufacture of Motor vehicles, trailer and semi-trailers                 | 2.89         | 0.71          | 2.23         | 1.65         | 3.08          | 2.54         | 3.47         | 5.32         | 5.28         | 3.28         | 2.58         | 3.66          | <b>3.06</b>   |
| 30       | Manufacture of other Transport equipment                                 | -            | -             | -            | 326.34       | 27.37         | 54.74        | -            | 326.34       | -            | -            | 1,006.40     | 54.74         | <b>149.65</b> |
| 31       | Manufacture of Furniture   | 33.46        | 25.56         | 19.49        | 32.72        | 45.62         | 49.24        | 15.74        | 32.49        | 40.99        | 17.31        | 112.91       | 142.16        | <b>47.31</b>  |
| 32       | Other Manufacture  | 152.79       | 141.32        | 139.69       | 105.54       | 121.24        | 97.21        | 133.88       | 147.43       | 145.22       | 169.49       | 145.45       | 156.63        | <b>137.99</b> |
|          | <b>MANUFACTURING SECTOR INDEX</b>  | <b>72.47</b> | <b>126.96</b> | <b>61.45</b> | <b>63.78</b> | <b>136.13</b> | <b>51.46</b> | <b>76.73</b> | <b>85.78</b> | <b>70.40</b> | <b>52.33</b> | <b>59.13</b> | <b>136.86</b> | <b>82.78</b>  |