



REPORT ON INDEX OF INDUSTRIAL PRODUCTION 2022-2023



Government of Goa
Directorate of Planning, Statistics & Evaluation,
Pandit Deendayal Upadhyay Bhavan,
Porvorim - Goa



GOVERNMENT OF GOA

**INDEX OF
INDUSTRIAL PRODUCTION
ANNUAL REPORT
2022 - 2023
BASE YEAR: (2011-12=100)**

**DIRECTORATE OF PLANNING, STATISTICS & EVALUATION
PANDIT DEENDAYAL UPADHYAY BHAVAN, NEAR PUNDALIK DEVASTHAN,
PUNDALIK NAGAR, ALTO-PORVORIM,
BARDEZ, GOA – 403521**

Website: www.dpse.goa.gov.in

PREFACE

The Index of Industrial Production serves as a vital tool to monitor and analyse the trends and structural changes in industrial production over time, based on specific base year.

Given the significance of mining and electricity 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 updated periodically. The current update to the base year to 2011-12 is in accordance with the guidance of Central Statistical Organization, Government of India. This document marks the thirty-ninth report on Index Numbers since inception, and the seventh in the revised series with the base year 2011-12. It includes index numbers from 2022-23, categorised at two-digit level industrial divisions of NIC-2008.

We hope this publication proves beneficial for stakeholders involved in the developmental planning of industrial sector. We extend our gratitude to the staff of Industrial Statistics wing, Central Statistical Organization, Government of India, for their invaluable guidance from time to time. Our thanks also go to the Indian Bureau of Mines, Nagpur, for providing data on minerals and Central Electricity Authority for supplying data on electricity generation.

I would like to express my appreciation to the Officers and Staff members of NSS Division for their dedicated efforts in bringing out this Publication. I also acknowledge the cooperation of factory management in assisting our field officials with data collection.

Your suggestions for improving this publication are most welcome.

Place: Porvorim - Goa
Date: 19/12/2024

(VIJAY B. SAXENA)
DIRECTOR

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Chapter 1

Introduction

1.1. BACKGROUND

Industrial sector is a key driver of economic development in any region. The performance of this sector is measured by using the “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 began constructing the Index of Industrial Production for the mining and manufacturing sectors in year 1971 using the 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. The base year was later updated to 1975 due to significant industrial growth in Goa.

Following guidelines from the Central Statistical Organization (CSO), 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 base year was again changed to 1993-94=100 for providing a comparable State level Index of Industrial Production, as assured 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 39th report since the inception of the IIP in the State and the 7th in the revised series of 2011-12. It covers the indices for the year 2022-23 for Electricity, Mining and Manufacturing sectors, along with combined indices for all the three sectors.

1.2. SCOPE AND COVERAGE

The Index of Industrial Production covers 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. 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 despite follow-up efforts, is estimated based on trend in responding units' production or the average production of non-responding units from the previous years for the specific item in question.

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.

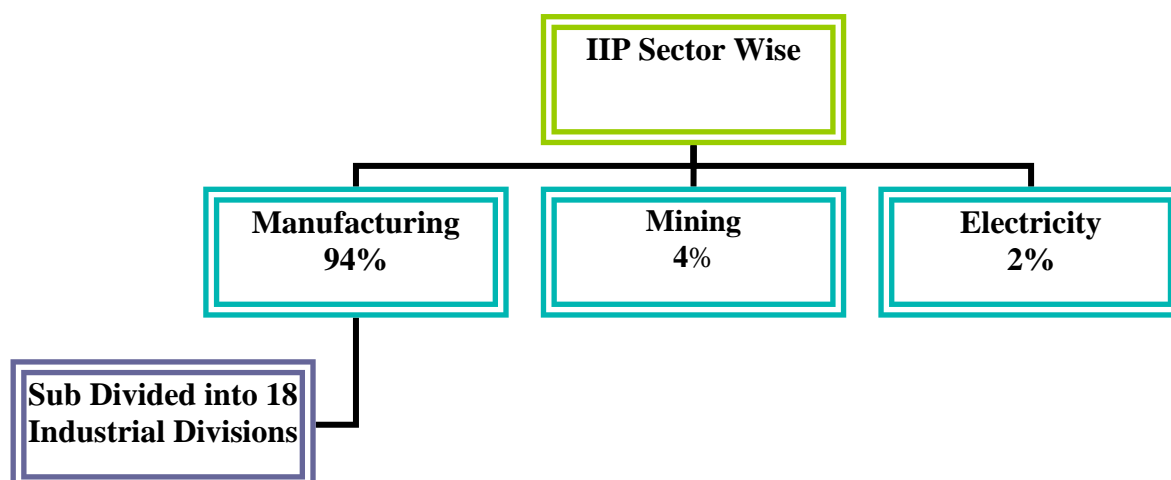
Table 2.1. Below, provides information on items in the new item basket with base year 2011-12 under the three sectors viz. Electricity, Mining and Manufacturing and these are compared with the previous base year i.e. 2004-2005.

TABLE No-2.1.

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

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

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
1	2	3
1	Electricity	58.26
2	Mining	319.76
3	Manufacturing	621.98
	Total	1000.00

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
1	2	3	4
1	Electricity	57.43	58.26
2	Mining	136.82	319.76
3	Manufacturing	805.75	621.98
	Total	1000.0	1000.00

Figure 2: Comparison of Weights during the base year

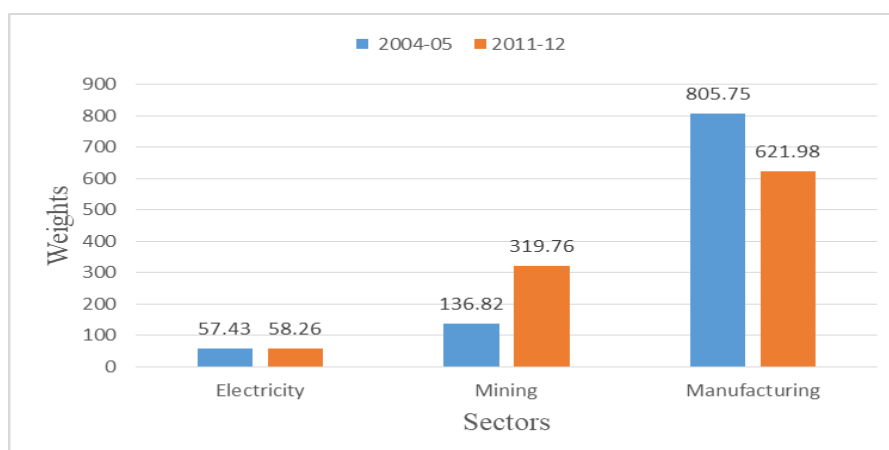


Table No-3.3, depicts the distribution of weights at 2-digit level divisions of mining sector and distribution of weights among items within 2-digit level of the same sector.

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
Total				319.76

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
		Total	621.98

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
ELECTRICITY SECTOR				
1	35	Electricity	58.26(5.83%)	1
A) Sub-Total (Electricity)			58.26(5.83%)	1
MINING SECTOR				
1	07	Mining of Metal Ores	319.76(31.98%)	3
B) Sub-Total (Mining)			319.76(31.98%)	3
MANUFACTURING SECTOR				
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
C) Sub-Total (Manufacturing)			621.98(62.19%)	64
(A+B+C) Grand Total (Electricity + Mining + Manufacturing)			1000.00(100%)	68

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
		20 .Manufacture of Chemicals and Chemical products	
16	2012	Urea	16.69
17	2023	Soap toilet (excluding baby soap)	5.68
18	2023	Toothpaste, non-medicated	14.80
		Total	37.17
		21. Manufacture of Pharmaceuticals medicinal Chemical and botanical Products	
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, antisthine 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
		Total	135.69
		22.Manufacture of Rubber and Plastic products	
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
		Total	96.98
		23.Manufacture of other Non-metallic mineral products	
32	2394	Cement, Portland	3.85
33	2395	Other article of cement, concrete or artificial	3.93
		Total	7.78
		24.Manufacture of Basic Metals	
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
		Total	245.06
		25.Manufacture of Fabricated metal products, except Machinery and equipments	
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
		Total	3.42

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
		26.Manufacture of computer, electronic and optical	
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
		Total	5.77
		27.Manufacture of Electrical equipment	
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
		Total	9.90
		28.Manufacture of Machinery & equipment	
54	2811	Internal combustion piston engines other	1.18
55	2813	Concrete pump	1.34
56	2821	Washing machine/laundry machine	4.20
		Total	6.72
		29.Manufacture of Motor Vehicles, trailers and Semi Trailers and semi trail	
57	2920	Body for other vehicle	3.13
58	2930	Seat for motor vehicle	0.21
		Total	3.35
		30.Manufacture of other Transport equipment	
59	3011	Other vessels for the transport of goods and other vessels For the transport	2.76
60	3011	Barges excl. hopper	2.31
		Total	5.07
		31.Manufacture of Furniture	
61	3100	Chair steel office	0.16
62	3100	Table & desks iron/steel	0.14
		Total	0.30
		32.Other Manufacture	
63	3250	Lens, ophthalmic	1.04
64	3250	Toothbrush	3.88
		Total	4.92
C) Total (MANUFACTURING SECTOR)			621.98
Grand Total (A+B+C) (Electricity + Mining + Manufacturing)			1000.00

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 =

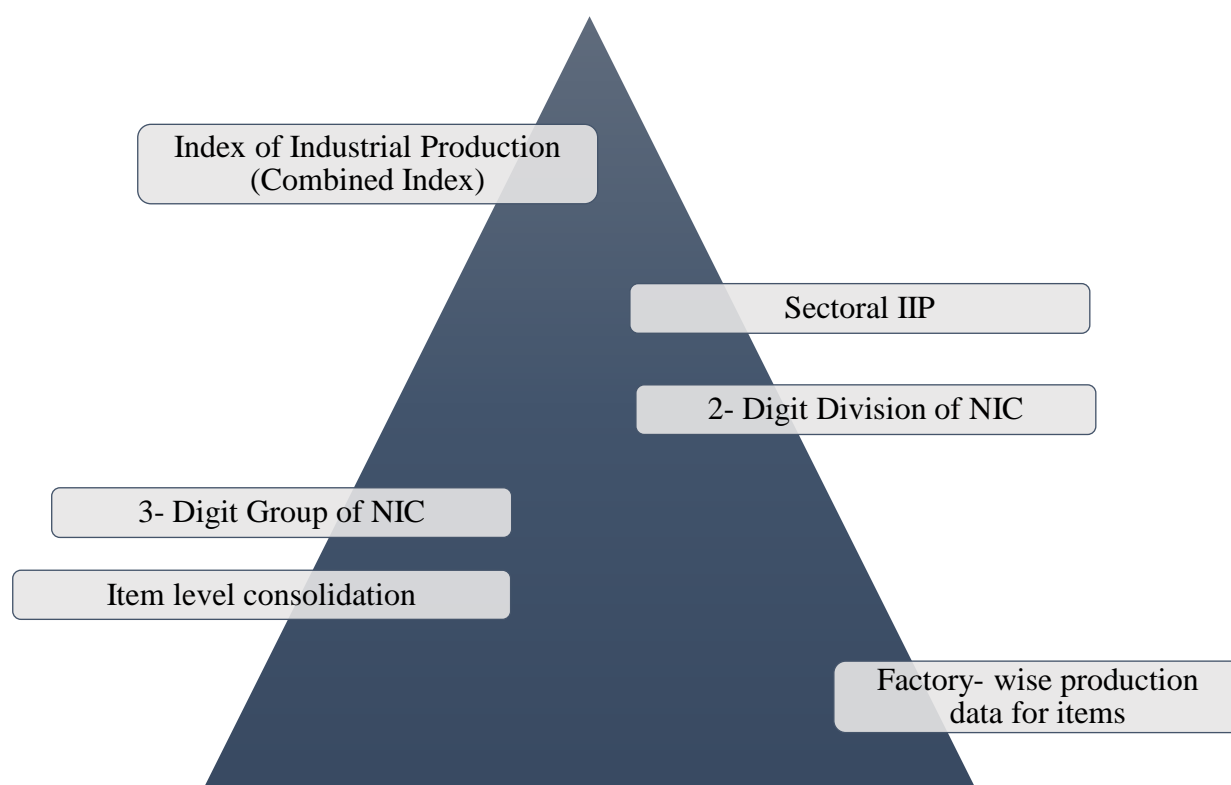
$$\frac{1}{12} \sum_{m=1}^{12} I_m$$

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 2020-21, 2021-22 & 2022-23 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

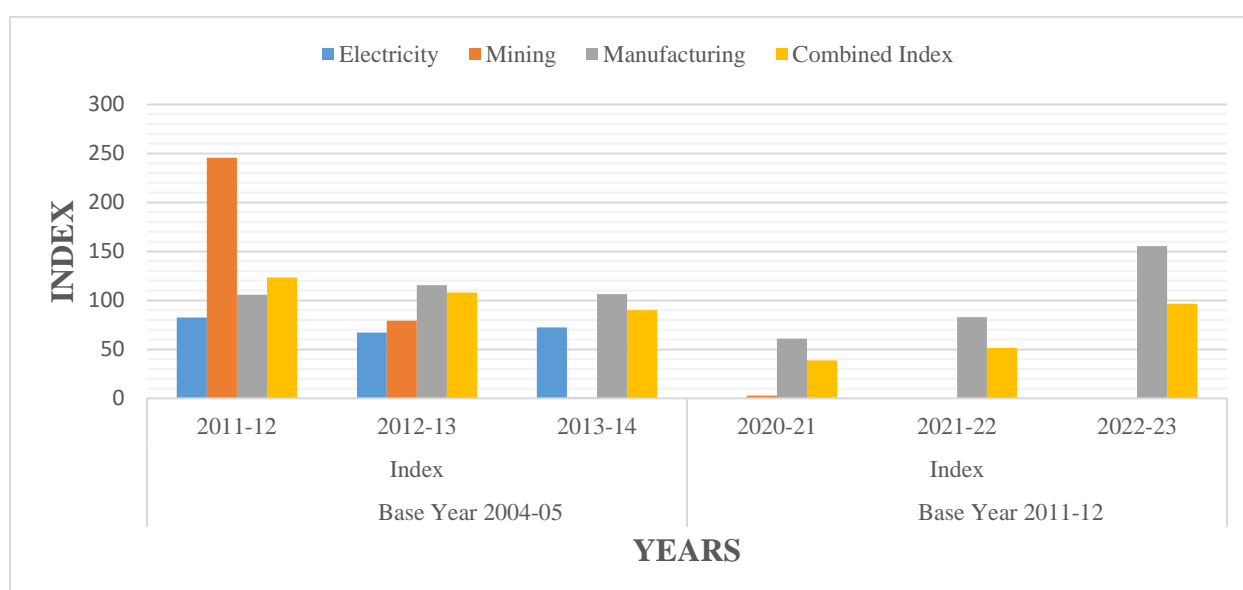
weight of 319.76 and Electricity sector with 58.26 for the current base year. It may also be seen that, there has been significant decline in the index of industrial production in the mining sector during 2020-23, compared to 2011-14, primarily due to closure of the mining industry. While the average index of industrial production in the manufacturing sector has dropped by 8.79% in the same period. Overall, the combined average index of industrial production across all three sectors have experienced a negative growth of 41.85% over 2020-23 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		2020-21	2021-22	2022-23
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	2.95	0.00	0.00
3	Manufacturing	805.75	105.60	115.66	106.54	621.98	60.89	82.78	155.30
Combined Index		1000.00	123.43	107.90	90.09	1000.00	38.82	51.49	96.59

Figure 4: Sector Level and Combined Annual Indices

It can be observed that the combined Index of all three sectors is considerably higher in the years 2011-2014 in comparison to the years 2020-23, a decline largely attributable to effects of the Covid19 pandemic. However, the index shows signs of reclaiming pre-pandemic levels in 2022-23.



4.4. ELECTRICITY SECTOR

This sector is classified under Division 35 of the NIC 2008; which covers Electricity, Gas, Steam and Air-condition supply. The only item covered under this sector is Electric power generation, transmission and distribution. The Index of Industrial Production at 2-digit level and 4-digit level of NIC for the years 2020-21, 2021-22 & 2022-23 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		
				2020-21	2021-22	2022-23
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
ELECTRICITY SECTOR INDEX			58.26	0.00	0.00	0.00

4.5. MINING SECTOR

a) Mining Sector Division Level Annual Indices

The division level annual indices in the Mining Sector for the years 2020-21, 2021-22 & 2022-23 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		
				2020-21	2021-22	2022-23
1	2	3	4	5	6	7
1	07.	Mining of Metal Ores	319.76	2.95	0.00	0.00
MINING SECTOR INDEX			319.76	2.95	0.00	0.00

b) Mining Sector Month –wise Division Level Indices:

The month-wise division level indices in respect of Mining Sector for the year 2020-21, 2021-22 & 2022-23 are given in Table No.4.5 (B). It is notable that the index remained nearly at zero, except for last five months of the FY 2020-21. This trend is attributable to the cessation of mining activities, which previously contributing over 15% to the State Gross Domestic Product.

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

Month	Index		
	2020-21	2021-22	2022-23
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	6.45	0.00	0.00
December	6.95	0.00	0.00
January	9.38	0.00	0.00
February	6.17	0.00	0.00
March	6.42	0.00	0.00

c) Mining Sector Division Level Annual Indices:

The product level annual indices in respect of Mining Sector for the years 2020-21, 2021-22 & 2022-23 is given in Table No-4.5(C). It may be noted that the Division 07: Mining of Metal Ores has been subdivided 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		
				2020-21	2021-22	2022-23
1	2	3	4	5	6	7
		07. Mining of Metal Ores	319.76	2.95	0.00	0.00
1	0710	Mining of Iron Ore	318.76	2.96	0.00	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

Table No-4.6(A) presents the division level annual indices for the Manufacturing Sector for the years 2020-21, 2021-22 & 2022-23. Notably, Division 26: Manufacture of computer, electronic & optical products, holds the highest Index of 574.10 for the year 2022-23. This is followed by Division 17: Manufacture of Paper and Paper Products with an index of 319.50 and Division 28: Manufacture of Machinery & equipment, with an index of 292.25. Conversely, Division 29: Manufacture of Motor Vehicles, trailers and Semi-trailers has the lowest Index of 9.23 during the year 2022-23.

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		
				2020-21	2021-22	2022-23
1	10	Manufacture of Food products	43.43	105.81	125.96	150.59
2	11	Manufacture of Beverages	7.54	76.32	138.82	126.87
3	17	Manufacture of Paper and Paper Products.	1.73	280.34	315.11	319.50
4	18	Printing and reproduction of recorded media	3.51	37.00	30.96	32.87
5	19	Manufacture of Coke, refined petroleum products and nuclear fuel	3.65	118.35	138.43	136.93
6	20	Manufacture of Chemicals and Chemical products	37.17	96.40	87.06	86.78
7	21	Manufacture of Pharmaceuticals medicinal chemical and botanical products	135.69	55.02	160.38	216.75
8	22	Manufacture of Rubber and Plastic products	96.98	74.05	87.92	86.08
9	23	Manufacture of other Non-metallic mineral products	7.78	37.70	47.21	59.15
10	24	Manufacture of Basic Metals	245.06	26.56	8.10	152.36
11	25	Manufacture of Fabricated metal products, except machinery and equipment	3.42	41.66	34.61	101.86
12	26	Manufacture of computer, electronic and optical products	5.77	284.36	253.34	574.10
13	27	Manufacture of Electrical equipment	9.90	139.19	217.78	280.16
14	28	Manufacture of Machinery & equipment	6.72	250.43	407.87	292.25
15	29	Manufacture of Motor Vehicles, trailers and Semi-trailers	3.35	5.75	3.06	9.23
16	30	Manufacture of other Transport equipment	5.07	233.51	149.65	13.68
17	31	Manufacture of Furniture	0.30	27.80	47.31	147.48
18	32	Other Manufacture	4.92	115.99	137.99	122.60
Manufacturing Sector Index			621.98	60.89	82.78	155.30

b) Manufacturing Sector Product Level Annual Indices

The product level annual indices in respect of Manufacturing Sector classified under different 2-Digit divisions for the years 2020-21, 2021-22 & 2022-23 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	2020-21	2021-22	2022-23
1	2	3	4	5	6	7
		10. Manufacture of food Products	43.43	105.81	125.96	150.59
1	1020	i) Fish Meat, FreshFish Frozen or otherwise	2.32	55.13	73.39	149.37
2	1050	ii) Milk Sskimmed or pasteurised, non-flavoured	0.70	81.64	83.84	72.68
3	1050	iii) Ice-cream	0.23	61.23	87.93	121.29
4	1061	iv) Wheat flour	0.04	118.46	129.38	111.11
5	1071	v) Cashew-nut and shelled	5.07	40.89	51.51	103.91
6	1073	vi) Chocolate and other food preparation containing cocoa(except sweetened cocoa)	20.36	137.46	170.63	205.72
7	1074	vii) Noodles	14.72	94.14	100.64	94.84
		11.Manufacture of beverage	7.54	76.32	138.82	126.87
8	1103	i) Alcoholic Beverages	5.33	64.85	146.58	0.25
9	1104	ii) Soft drink carbonated beverage other than soda water	2.22	103.88	120.19	431.03
		17. Manufacture of Paper and Paper Products.	1.73	280.34	315.11	319.50
10	1702	i) Corrugated paper board	0.60	35.58	39.33	36.28
11	1702	ii) Boxes, Corrugated sheets	0.46	871.32	919.99	903.39
12	1702	iii) Cardboard Boxes	0.67	99.05	152.11	177.36
		18.Printing and reproduction of recorded media	3.51	37.00	30.96	32.87
13	1811	i) Newspaper and daily	3.51	37.00	30.96	32.87
		19.Manufacture of Coke, refined petroleum products	3.65	118.35	138.43	136.93
14	1920	i) Liquefied Petroleum gas (LPG)	2.61	127.22	137.93	142.73
15	1920	ii) Petroleum coke calcined	1.04	96.04	139.69	122.33

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	2020-21	2021-22	2022-23
1	2	3	4	5	6	7
		20 .Manufacture of Chemicals and Chemical products	37.17	96.40	87.06	86.78
16	2012	i) Urea	16.69	127.52	118.72	116.29
17	2023	ii) Soap toilet (excluding baby soap)	5.68	0.05	0.05	0
18	2023	iii) Toothpaste, non-medicated	14.80	98.27	84.74	86.81
		21. Manufacture of Pharmaceuticals medicinal Chemical and botanical Products	135.69	55.02	160.38	216.75
19	2100	i) Doxycycline / Minocycline	8.27	0.002	0.003	52.95
20	2100	ii) Metronidazole with/ out, norfloxacin	3.85	9.57	3.58	4.94
21	2100	iii) Vitamin E (tocopherol) And Other vitamin in tablet or injectable form	16.10	2.37	2.13	1.46
22	2100	iv) Anti cancer and Anti Malaria	68.77	14.95	215.97	299.14
23	2100	v) Anti-diabetic drugs excluding insulin (metformin, pioglitazone, glimepiride etc)	5.22	209.60	91.95	87.21
24	2100	vi) Anti hitamine,antistine antitussive (codeine etc.)prep	10.10	16.31	3.75	19.03
25	2100	vii) Lisinopril/ramipril/enalapril maleate a.c.e inhibitor	6.21	12.81	12.45	0.28
26	2100	viii) Ointments, allopathic	11.68	131.94	193.66	7.55
27	2100	ix) Capsules Plastic	5.49	635.16	730.04	1389.56
		22.Manufacture of Rubber and Plastic products	96.98	74.05	87.92	86.08
28	2211	i) Tyre/tube other	36.21	107.08	96.13	133.56
29	2211	ii) Flaps rubber	10.67	112.30	159.77	159.66
30	2220	iii) Container plastic	15.76	108.09	102.54	105.07
31	2220	iv) Plastic bottle caps	34.34	11.72	50.22	4.45
		23.Manufacture of other Non-metallic mineral products	7.78	37.70	47.21	59.15
32	2394	i) Cement, Portland	3.85	54.56	59.29	70.41
33	2395	ii) Other article of cement, concrete or artificial	3.93	21.19	35.38	48.12
		24.Manufacture of Basic Metals	245.06	26.56	8.10	152.36
34	2410	i) Ingots iron	231.53	24.67	5.95	158.54
35	2420	ii) Manganese dioxide	9.68	38.67	23.39	23.96
36	2420	iii) Aluminium tube, pipes alloyed	3.16	104.56	95.95	97.74
37	2431	iv) Cast iron	0.51	151.35	114.77	142.49
38	2431	v) Valves, industrial	0.17	73.72	117.72	94.24

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	2020-21	2021-22	2022-23
1	2	3	4	5	6	7
		25.Manufacture of Fabricated metal products, except Machinery and equipments	3.42	41.66	34.61	101.86
39	2511	i) Hume pipes	0.23	15.84	25.23	70.93
40	2511	ii) Buckets, shovels grabs and the like	0.18	387.29	473.18	489.60
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	27.46	10.42	98.31
		26.Manufacture of computer, electronic and optical products	5.77	284.36	253.34	574.10
43	2610	i) Capacitor, metalized poly film	2.54	501.35	486.58	542.96
44	2620	ii) Computer Peripherals	0.22	9.64	14.45	35.90
45	2630	iii) Toys plastic moulded other	0.48	553.92	351.65	3918.80
46	2651	iv) Instruments and apparatus for measuring or checking the flow, level, pressure or their variables of liquids or gases, except	1.82	49.28	24.20	25.42
47	2651	v) Machines and appliances for testing the mechanical properties of materials	0.71	12.59	12.13	9.55
		27.Manufacture of Electrical equipment	9.90	139.19	217.78	280.16
48	2710	i) Centrifuge motors or Electrical motors	1.39	104.86	116.55	116.66
49	2710	ii) Parts of electricity distribution of control apparatus	0.38	88.46	0.18	0.17
50	2731	iii) Optical fibre cables made up of individually sheaterd	5.72	129.99	294.01	398.70
51	2750	iv) Electric Fans and ventilating or recycling hoods of the domestic type	2.17	198.54	133.01	160.28
52	2790	v) Fabricated metal product	0.12	66.79	1.48	1.18
53	2790	vi) Instruments and apparatus(except cathode-ray oscilloscopes and oscillographs) for telecommunications	0.11	136.12	191.03	284.31
		28.Manufacture of Machinery & equipment	6.72	250.43	407.87	292.25
54	2811	i) Internal combustion piston engines other	1.18	210.57	915.47	144.97
55	2813	ii) Concrete pump	1.34	91.71	136.44	73.49
56	2821	iii) Washing machine/laundry machine	4.20	312.18	352.39	403.20

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	2020-21	2021-22	2022-23
1	2	3	4	5	6	7
		29.Manufacture of Motor Vehicles, trailers and Semi-Trailers and semi trail	3.35	5.75	3.06	9.23
57	2920	i) Body for other vehicle	3.13	3.25	-	1.00
58	2930	ii) Seat for motor vehicle	0.21	42.62	48.25	130.77
		30.Manufacture of other Transport equipment	5.07	233.51	149.65	13.68
59	3011	i) Other vessels for the transport of goods and other vessels for the transport	2.76	400.00	250.00	-
60	3011	ii) Barges excl. hopper	2.31	35.00	-	30.00
		31.Manufacture of Furniture	0.30	27.80	47.31	147.48
61	3100	i) Chair steel office	0.16	23.75	44.22	131.90
62	3100	ii) Table & desks iron/steel	0.14	32.56	50.94	165.76
		32.Other Manufacture	4.92	115.99	137.99	122.60
63	3250	i) Lens, ophthalmic	1.04	107.60	126.57	113.78
64	3250	ii) Toothbrush	3.88	118.25	141.07	124.97

c) Monthly Growth rate of IIP in Manufacturing Sector during 2022-23 over 2021-22.

The Table-4.6(C) illustrates the monthly growth rate of the Index of Industrial Production in the Manufacturing Sector for the year 2022-23, compared to the year 2021-22.

TABLE NO-4.6(C)
INDEX OF INDUSTRIAL PRODUCTION
MONTHLY GROWTH RATE DURING 2022-23 OVER 2021-22
(BASE YEAR 2011-12 = 100)

Sl.No.	Month/Sector	Manufacturing		
		2021-22	2022-23	Growth Rate (%)
1	April	72.47	84.63	16.78
2	May	126.96	125.02	-1.53
3	June	61.45	88.68	44.31
4	July	63.78	110.28	72.91
5	August	136.13	77.53	-43.05
6	September	51.46	105.65	105.31

CONT'D...

TABLE NO-4.6(C)
INDEX OF INDUSTRIAL PRODUCTION
MONTHLY GROWTH RATE DURING 2022-23 OVER 2021-22
(BASE YEAR 2011-12 = 100)

Sl.No.	Month/Sector	Manufacturing		
		2021-22	2022-23	Growth Rate (%)
7	October	76.73	116.79	52.21
8	November	85.78	101.54	18.37
9	December	70.40	80.68	14.60
10	January	52.33	77.61	48.31
11	February	59.13	103.85	75.63
12	March	136.86	86.88	-36.52

Figure 5: Monthly Growth Rate of IIP during 2022-23 over 2021-22

The Fig-5 presents the growth rate of IIP in the Manufacturing Sector during 2022-23 over 2021-22. The Months of July, September and February recorded the highest growth rates, while August and March experienced the most significant declines.



ANNEXURE I
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 II
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 III
INDEX OF INDUSTRIAL PRODUCTION
SECTOR LEVEL AND COMBINED MONTHLY INDICES FOR THE YEAR 2022-2023
(BASE YEAR 2011-2012=100)

Sl. No.	Industrial Sector	Weight	2022-2023											
			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	136.06	201.07	142.57	177.30	124.65	169.86	187.78	163.26	129.72	124.78	166.97	139.69
Combined Index		1000.00	84.63	125.02	88.68	110.28	77.53	105.65	116.79	101.54	80.68	77.61	103.85	86.88

ANNEXURE IV
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 V
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 VI
INDEX OF INDUSTRIAL PRODUCTION
MINING SECTOR MONTHWISE DIVISION LEVEL INDICES FOR THE YEAR 2022-2023
(BASE YEAR 2011-2012=100)

Sl. No.	NIC Code & Mining Division Description	Weight	Year 2022-2023												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 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	105.81
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	76.32
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	280.34
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	37.00
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	118.35
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	96.40
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	55.02
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	74.05
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	37.70
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	26.56
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	41.66
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	284.36
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	139.19
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	250.43
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	5.75
30	Manufacture of other Transport equipment	27.37	-	-	27.37	-	979.03	27.37	-	326.34	27.37	1,006.40	381.09	233.51
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	27.80
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	115.99
	MANUFACTURING SECTOR INDEX	24.10	66.96	62.04	46.29	55.97	73.85	64.15	63.94	58.43	69.26	75.34	70.37	60.89

ANNEXURE VIII
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	125.96
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	138.82
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	315.11
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	30.96
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	138.43
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	87.06
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	160.38
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	87.92
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	47.21
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	8.10
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	34.61
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	253.34
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	217.78
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	407.87
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	3.06
30	Manufacture of other Transport equipment	-	-	-	326.34	27.37	54.74	-	326.34	-	-	1,006.40	54.74	149.65
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	47.31
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	137.99
	MANUFACTURING SECTOR INDEX	72.47	126.96	61.45	63.78	136.13	51.46	76.73	85.78	70.40	52.33	59.13	136.86	82.78

ANNEXURE XI
INDEX OF INDUSTRIAL PRODUCTION
MANUFACTURING SECTOR (MONTH-WISE DIVISION LEVEL INDICES FOR THE YEAR 2022-2023) (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	130.87	131.50	138.51	190.23	145.72	145.25	166.70	161.53	154.94	158.90	133.72	149.20	150.59
11	Manufacture of Beverages	69.43	75.41	51.41	18.21	67.73	188.02	81.13	161.93	134.07	239.06	161.40	275.05	126.87
17	Manufacture of Paper and Paper Products.	278.94	343.34	406.22	414.12	319.04	256.67	255.97	254.40	311.86	364.10	353.37	282.42	319.50
18	Printing and reproduction of recorded media	26.27	26.50	25.87	27.61	29.56	28.39	29.91	28.45	29.06	28.18	26.03	88.48	32.87
19	Manufacture of Coke, refined petroleum products and nuclear fuel	98.87	93.19	114.00	153.01	165.43	146.90	104.02	151.43	161.86	156.37	143.14	153.76	136.93
20	Manufacture of Chemicals and Chemical products	89.09	37.32	55.99	98.95	95.23	94.79	93.99	95.30	96.32	96.03	88.94	99.55	86.78
21	Manufacture of Pharmaceuticals medicinal chemical and botanical products	129.01	415.07	174.14	295.93	51.97	286.86	344.02	334.16	93.98	55.45	308.84	111.62	216.75
22	Manufacture of Rubber and Plastic products	85.67	93.19	92.68	85.08	84.26	79.60	88.74	89.40	85.23	90.90	64.47	94.20	86.08
23	Manufacture of other Non-metallic mineral products	63.51	70.63	59.76	48.81	55.17	54.62	62.70	62.67	59.96	59.09	59.48	53.28	59.15
24	Manufacture of Basic Metals	150.65	163.82	145.66	158.17	163.67	149.20	160.68	107.24	151.43	164.30	147.86	165.68	152.36
25	Manufacture of Fabricated metal products, except machinery and equipment	53.90	10.55	107.53	26.56	83.20	38.49	40.09	28.63	734.69	17.59	66.34	15.69	101.86
26	Manufacture of computer, electronic and optical	763.45	755.96	751.21	562.98	628.91	585.45	628.16	429.60	396.33	355.63	450.66	587.03	574.10
27	Manufacture of electrical equipment	222.88	299.36	283.40	286.98	290.54	291.83	290.71	306.95	275.53	292.85	280.04	240.04	280.16
28	Manufacture of Machinery and equipment n.e.c	490.15	276.79	295.93	345.08	395.22	410.72	326.81	236.70	154.18	194.32	188.78	189.84	292.25
29	Manufacture of Motor vehicles, trailer and semi-trailers	5.80	13.44	13.23	14.81	12.70	4.07	5.40	6.24	9.17	8.83	8.44	8.54	9.23
30	Manufacture of other Transport equipment	-	54.74	-	-	-	-	-	-	54.74	-	-	54.74	13.68
31	Manufacture of Furniture	133.90	155.95	265.38	393.21	124.02	21.19	113.24	127.09	44.59	35.57	37.97	317.64	147.48
32	Other Manufacture	163.17	140.54	120.24	126.38	123.63	104.29	99.34	128.06	133.33	125.45	108.96	97.81	122.60
	MANUFACTURING SECTOR INDEX	136.06	201.01	142.57	177.30	124.65	169.86	187.78	163.26	129.72	124.78	166.97	139.69	155.30