

INDEX OF INDUSTRIAL PRODUCTION
1994-95 TO 1998-99
Base 1993 - 94

PREFACE

INDEX OF INDUSTRIAL PRODUCTION IN GOA

(Base 1993-94 = 100)

C O N T E N T S

SECTOR LEVEL INDICES

MINING SECTOR (GROUP LEVEL INDICES)

MANUFACTURING SECTOR (GROUP LEVEL INDICES)

MINING SECTOR (MONTHWISE GROUP LEVEL INDICES)

MANUFACTURING SECTOR (MONTHWISE GROUP LEVEL INDICES)

MINING & MANUFACTURING (COMBINED INDEX)

Source: **DIRECTORATE OF PLANNING, STATISTICS AND EVALUATION PANAJI – GOA**

P R E F A C E

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

Since, mining is also an important activity along with manufacturing sector in the state of Goa, 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 1993-94 is in accordance with the guidelines of Central Statistical Organisation, New Delhi.

This is the twenty-second report on index numbers since inception, and first in the revised series with the base year 1993-94. It covers index numbers from 1994-95 to 1998-99 at two digit level industrial groups of NIC-1987.

It is hoped that this publication would be useful to those who are involved in the developmental planning of industrial sector. The co-operation extended by the industrial units, in Goa, by supplying data is gratefully acknowledged. We are thankful to the staff in Industrial Statistics wing of Central Statistical Organisation, New Delhi, for providing valuable guidelines from time to time. Our thanks are also due to the colleagues in Indian Bureau of Mines, Nagpur, for supplying data on minerals.

This report has been prepared under the guidance of Shri. Anil Kumar, Statistical Officer, by Shri. Jagdish N. Shirodkar, Statistical Assistant of this Directorate.

Constructive suggestions in bringing about improvement in the publication are always welcome.

(S. K. Tewari)
DIRECTOR

Dated: **8th March, 2002.**
Place: **Panaji – Goa.**

C O N T E N T S

1. INTRODUCTION

2. SCOPE AND COVERAGE

3. COLLECTION OF DATA

4. BASE YEAR

5. ITEM BASKET

6. WEIGHTING DIAGRAM

7. ESTIMATION PROCEDURE

INDEX NUMBERS OF INDUSTRIAL PRODUCTION IN GOA.

INTRODUCTION:

Industrial sector plays a vital role in the economy of a region. The development in the industrial sector is measured by means of a tool called “ Index of Industrial Production”. It is one of the most important macro economic indicators, indicating the variations in the industrial output at a given point of time. The growth in production is measured with reference to the base period to assess the performance of the industrial sector.

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

Further, as per the guidelines received from the Central Statistical Organisation, New Delhi, the base year was revised to 1980-81 = 100 from 1975 by covering more items in the basket to reflect the industrial growth more adequately.

The present change of base year for providing comparable state level index of Industrial production was initiated by Central Statistical Organisation, New Delhi, as per assurance given by the Prime Minister to the Parliament in April 1993. Under “ 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.

Accordingly the state of Goa changed the base year from 1980–81 = 100 to 1993-94 = 100.

This is the 22nd report in the series since inception of construction of Index of Industrial Production in the state. This issue covers the indices for the years 1994-95 to 1998-99 for both manufacturing as also mining sectors.

SCOPE AND COVERAGE:

The scope of index of industrial production has been confined to the manufacturing and mining sectors only as no electricity is being generated in the state. The manufacturing sector is restricted to the industries registered under sections 2(m)(i) and 2(m)(ii) of the Factories Act, 1948 and the factories functioning within the jurisdiction of the state. The contribution of the un-organised sector is also taken into consideration while calculating the weighting diagram for manufacturing sector at the 2-digit level.

COLLECTION OF DATA:

The mineral data for computation of mining index is obtained from the Indian Bureau of Mines, Nagpur.

The manufacturing index computed is based on the month-wise production data collected from the selected factories by issuing letters from this Directorate. Delayed cases are contacted over telephone or by personal visits of the staff of this Directorate.

BASE YEAR:

The base year of the Index Numbers of Industrial Production in respect of both mining and manufacturing sector is 1993-94. It was revised from the earlier base of 1980-81 as per the guidelines of the Central Statistical Organisation, New Delhi.

ITEM BASKET:

The production figures for the constituents of the item basket in the mining sector are received from Indian Bureau of Mines, Nagpur. These figures are considered on cent percent basis for computation of index. The mining sector is composed of three mineral items viz. Iron ore, Manganese ore and Bauxite. The items under the manufacturing sector are selected on the basis of the detailed list of the products manufactured during 1993-94 supplied by Central Statistical Organisation, New Delhi, alongwith the guidelines. The manufacturing sector is represented by 77 items which are spread over 11 industrial groups considered at 2-digit level of NIC-1987 with a coverage of 80 % of the value of total output of the Organised manufacturing sector during the year 1993-94.

The selection procedure for inclusion of the items in the basket involves the following steps:

- a) Forming the complete list of items from the aggregate production data supplied for the year 1993-94 by Central Statistical Organisation, New Delhi by excluding the items under 'Other products and by-products'.
- b) Arranging the items in descending order of value of Output.
- c) Selecting the items for the basket at 80% coverage of the total value of output for the

manufacturing sector.

d) Classifying the selected items into 2-digit level of NIC-1987 groups for further monthly computation of indices.

Following the guidelines from Central Statistical Organisation, New Delhi, the selection of items is done under manufacturing sector whereas all the minerals are considered for compilation of mining index.

Annexure-1, below, provides information on items revised in the item basket under both the sectors and these are compared with previous base year i.e. 1980-81= 100.

**ANNEXURE-1
REVISION OF ITEM BASKET FROM BASE 1980-81 TO
1993-94**

Sector	Item basket (base 1980-81)	New items included	Items deleted	Com-mon items	Item basket (base 1993-94)
1	2	3	4	5	6
Mining	4	-	1	3	3
Manuf-acturing	71	31	26	46	77
Total	75	31	27	49	80

WEIGHTING DIAGRAM:

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

Annexure -2, shows the sector level allotment of weights in respect to the Gross value of Output.

**ANNEXURE - 2
DISTRIBUTION OF WEIGHTS AT SECTOR LEVEL
Base 1993-94 = 100**

Sl. No.	Sector	Gross Value of Output (Rs.000)	Weight
1	2	3	4
1	Mining	1962973	90.4160
2	Manufact-	19747499	909.5840

	uring*		
Total		21710472	1000.0000

*includes contribution of Un-organised sector.

Annexure – 3, compares the weights allotted to both the sectors during the base year 1980-81 and the revised base 1993-94 at sector level as detailed below.

ANNEXURE –3
COMPARISON OF WEIGHTS DURING THE BASE
YEAR
1980-81 AND 1993-94

SI. No.	Sector	Allotment of Weights during	
		Base 1980-81	Base 1993-94
1	2	3	4
1	Mining	153.3	90.4
2	Manufacturing	846.7	909.6
Total		1000.0	1000.0

The mining activity in the state is limited to very few metals hence 100% coverage is considered for item basket for the computation of index of mining sector.

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

ANNEXURE – 4
DISTRIBUTION OF WEIGHTS AMONG ITEMS WITH-
IN
2-DIGIT LEVEL OF MINING SECTOR

SI. No.	NIC 2-digit code	Description of item	Value of Output (Rs.000)	Weight
1	2	3	4	5
1	12	Mining of Iron Ore	1957564	90.1669
2	13	Mining of metal	5409	0.2491

		ores other than Iron Ore		
		a) Manganese Ore	2669	01229
		b) Bauxite	2740	0.1262
Total			1962973	90.4160

The weights are allotted to different groups of industries under manufacturing sector at NIC (1987) level, clubbing the value of output for the organised sector (Annual Survey of Industries) and un-organised sector of manufacturing as per the guidelines made available by Central Statistical Organisation, New Delhi. The value of output of un-organised manufacturing sector as supplied by Central Statistical Organisation, New Delhi. These results are the findings of the surveys of Directory Manufacturing Enterprises (DME), Non-Directory Manufacturing Enterprises (NDME), and Own Account Enterprises (OAE) conducted by Central Statistical Organisation, New Delhi.

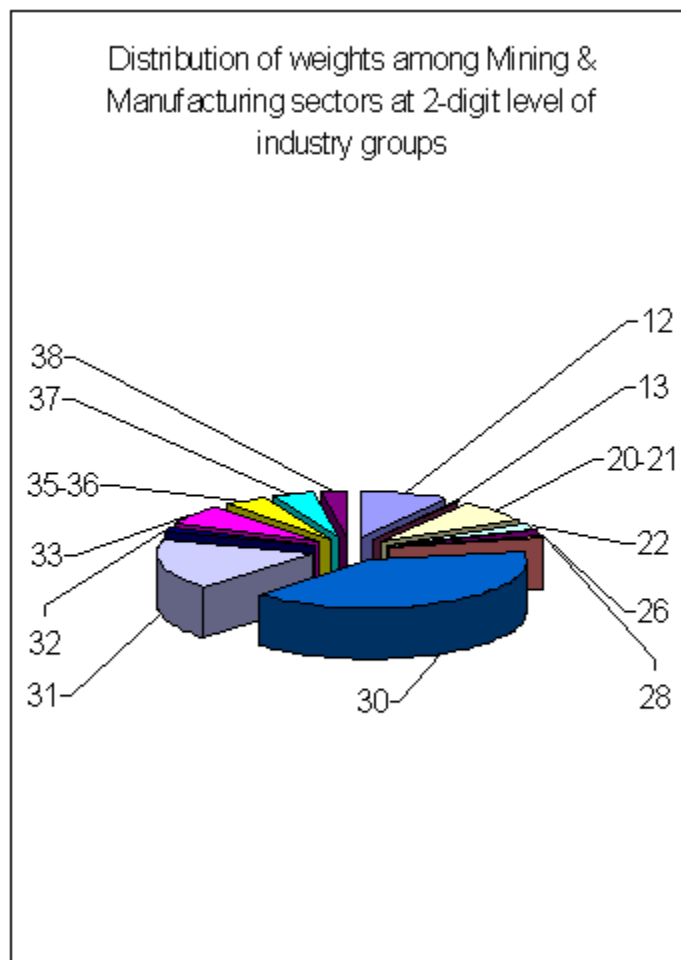
Annexure – 5, exhibit the contribution of values of output under Organised and Un-organised sector. The weights are allotted to each group of manufacturing industries as per their combined value of output.

ANNEXURE – 5
DISTRIBUTION OF WEIGHTS AT 2-DIGIT LEVEL
MAJOR MANUFACTURING SECTOR

Sl. No.	NIC 2-digit group	Organised sector (Rs.000)	Un-organised sector (Rs.000)	Combined (Rs.000)	Weight
1	2	3	4	5	6
1	20-21	1328278	404900	1733178	82.1415
2	22	460373	25300	485673	23.0178
3	24	93747	-	93747	*
4	26	320512	1200	321712	15.2471
5	27	2360	215500	217860	*
6	28	122524	65800	188324	8.9253
7	29	-	900	900	*
8	30	8534821	43100	8577921	406.5382
9	31	3591634	17400	3609034	171.0450
10	32	111711	189700	301411	14.2849

11	33	1472849	110000	1582849	75.0169
12	34	88550	136500	225050	*
13	35-36	857773	59200	916973	43.4586
14	37	894746	21500	916246	43.4242
15	38	507821	51000	558821	26.4845
16	39	-	17800	17800	*
Total		18387699	1359800	19747499	909.5840

*Not included in the item basket.



Annexure – 6, gives the allotment of weight among items within 2-digit level of manufacturing sector.

ANNEXURE – 6
DISTRIBUTION OF WEIGHTS AMONG ITEMS
WITHIN 2-DIGIT
LEVEL OF INDUSTRIES UNDER MANUFACTURING
SECTOR

Sl.No.	NIC-87	Description of Item	Value of Output (Rs. 000)	Weight
1	2	3	4	5
20-21. Manufacture of Food Products				
1.	2005	Canned Fish	3588	0.2428
2.	2005	Canned meat	5648	0.3823
3.	2005	Cold meat	4557	0.3084
4.	2010	Butter	752100	50.8997
5.	2010	Ghee	799	0.0541
6.	2010	Pasturised milk	148485	10.0490
7.	2041	Wheat flour/Maida	22842	1.5459
8.	2041	Sooji/Rawa	3170	0.2145
9.	2041	Atta	2722	0.1842
10.	2060	Sugar	69418	4.6980
11.	2090	Chocolate (all kind)	18749	1.2689
12.	2151	T. Kernels	181653	12.2937
22. Manufacture of Beverages, Tobacco and related Products				
13.	2200	Country spirit	2000	0.1262
14.	2210	Indian make foreign spirit	209533	13.2167
15.	2220	Beer and Ale	134334	8.4734
16.	2240	Aerated water	3993	0.2519
17.	2240	Soda water	15056	0.9496
26. Manufacture of Textile Products				
18.	2611	Nylon Fishing Twine	7746	0.6532
19.	2619	Polyethylene Twine	9052	0.7634

20.	2619	Fishing nets	46661	3.9349
21.	2650	Readymade Garments (all kind)	20275	1.7098
22.	2694	Sanitary Towel/Napkins	65373	50.5126
23.	2699	Elastic Tapes	31698	2.6730
28. Manufacture of Paper and Paper products.				
24.	2810	Corrugated boxes	37213	4.1591
25.	2810	Duplex cartoon	4662	0.5210
26.	2810	Newspaper	24470	2.7348
27.	2850	Other printing materials	13514	1.5104
30. Manufacture of Chemicals and Chemical products.				
28.	3002	Oxygen gas	12633	0.6339
29.	3002	Dissolved Acetylene	16100	0.8079
30.	3002	Nitrogen	959	0.0481
31.	3002	Carbon Dioxide	10896	0.5468
32.	3013	Other Nitro fert N-content	2442602	122.5710
33.	3013	Complex fertilizer NPK content	836944	41.9983
34.	3013	Di-Ammonium Phosphate	829277	41.6135
35.	3013	Other fertilizer	350695	17.5981
36.	3014	Drugs & Pharmaceuticals	264783	13.2870
37.	3014	Pesticide formulation liquid	737444	37.0053
38.	3032	Ready mixed paints	15260	0.7658
39.	3042	Tablets (all kind)	591215	26.6675
40.	3042	Capsules (all kind)	69033	3.4641
41.	3042	Liquid Injectable	206213	10.3478

42.	3042	Syrup	80258	4.0274
43.	3042	Eye/Ear drops	3880	0.1947
44.	3042	Liquid vitamin/Oral	120903	6.0670
45.	3042	Antibiotic/vial/ other drug chem.	97952	4.9153
46.	3042	Ointment	75621	3.7947
47.	3042	Powder/Granuls	407652	20.4562
48.	3045	Bandages/Gauge	34866	1.7496
49.	3045	Surgical adhesive plaster	41827	2.0989
50.	3045	Surgical adhesive plaster strip	29886	1.4997
51.	3059	Cosmetics (all kind)	182573	9.1616
52.	3092	Photographic sensitized film	247493	12.4193
53.	3092	Photographic printing paper	394549	19.7987
31. Manufacture of Rubber, Plastic, Petroleum and Coke production				
54	3100	Giant tyre	2998516	165.3264
55.	3100	Animal drawn vehicle tyres	16741	0.9230
56.	3100	Flaps	48348	2.6657
57.	3130	Bottles	19850	1.0944
58.	3130	Other plastic moulded domestic goods	13682	0.7544
59.	3130	Spectacle frames	5098	0.2811
32. Manufacture of non-metallic mineral products				
60.	3204	Building bricks	10654	2.7575
61.	3292	Hollow building blocks	262	0.0678
62.	3292	Mosaic tiles	44276	11.4596
33. Manufacture of Basic metal and Alloys				
63.	3304	Pig iron	444351	50.1885

64.	3319	Cold rolled steel	98409	11.1151
65.	3319	Other iron and steel products	108581	12.2640
66.	3330	Copper wire (all kind)	12832	1.4493
35-36. Manufacture of Machinery and equipment other than transport.				
67.	3593	Washing /Laundry machine	298662	23.0533
68.	3641	Ceiling fan	95901	7.4024
69.	3661	T.V. set (B. W.)	9307	0.7184
70.	3670	Computer based system	159149	12.2845
37. Manufacture of Transport equipment and parts.				
71.	3701	Marine vessels	74679	3.7514
72.	3738	Auto parts	640009	32.1500
73.	3738	Vehicle body building	149756	7.5228
38. Other manufacturing industries.				
74.	3811	Ophthalmic lenses	69761	8.2751
75.	3819	Projectors	5134	0.6090
76.	3819	Cameras	92146	10.9304
77.	3893	Plastic moulded toys	56230	6.6700

ESTIMATION PROCEDURE :

The index of industrial production on new base 1993-94 has been computed by using Laspeyre's formula. It is a simple weighted arithmetic mean as below:

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

Where, 'If' is the index of manufacturing (factory) sector, 'Ri' is the production relative of the 'i'th selected item and 'Wi' is the corresponding weight assigned to the 'i'th item. 'Ri' is calculated based on the production of the 'i'th item in the current year divided by the production of the same item in the base year 1993-94 i.e

$$R_i = \frac{P_{ci}}{P_{bi}} \times 100$$

where, 'R_i' = Production relative of 'i'th selected item,
 'P_{ci}' = Production of the 'i'th item during the current year,
 'P_{bi}' = Average monthly production of the 'i'th item in the base year.

'P_{bi}' is the average monthly production arrived at by dividing the total annual production of the particular item during the base year 1993-94 as supplied by Central Statistical Organisation, New Delhi, by 12.

The mining index is computed by using similar formula based on the production figures of three mining products viz. Iron ore, Manganese ore and Bauxite, as supplied by Indian Bureau of Mines, Nagpur. The formula is

$$I_m = \frac{\sum RW_i}{\sum W_i}$$

where, 'I_m' is the index of mineral production, 'R_i' is the production relative of the 'i'th item and 'w_i' is the corresponding weight allotted to the 'i'th selected item. The combined index of Manufacturing and Mining sector i.e. Index of Industrial Production in Goa is pooled as per the following formula.

$$I = \frac{I_f W_f + I_m W_m}{W_f + W_m}$$

Where, 'I' is the Index of Industrial (combined for Manufacturing and Mining) production,
 'I_f' and 'I_m' are the indices of Manufacturing and Mining sector respectively,
 'W_f' and 'W_m' are the weights allotted to the manufacturing and Mining at sector level.

TABLE - 1							
INDEX OF INDUSTRIAL PRODUCTION							
Sector level Indices							
(Base 1993-94=100)							
			YEAR				
Sl.No.	Sector	Weight	1994-95	1995-96	1996-97	1997-98	1998-99
1	2	3	4	5	6	7	8
1	Mining	90.42	104.97	106.77	89.92	114.69	107.58

2	Manufacturing	909.58	133.36	161.11	194.92	231.84	238.30
COMBINED INDEX		1000.00	130.79	156.19	185.42	221.25	226.50

TABLE - 2							
INDEX OF INDUSTRIAL PRODUCTION							
Mining Sector (Group level Indices)							
(Base 1993-94=100)							
			YEAR				
Sl. No.	Sector	Weight	1994-95	1995-96	1996-97	1997-98	1998-99
1	2	3	4	5	6	7	8
1	Mining of Iron Ore	90.17	105.00	106.72	89.80	114.72	107.60
2	Mining of metal ores other than Iron Ore	0.25	96.49	123.49	130.84	102.35	100.99
MINING SECTOR INDEX		90.42	104.97	106.77	89.92	114.69	107.58

TABLE - 3								
INDEX OF INDUSTRIAL PRODUCTION								
Manufacturing Sector (Group level Indices)								
(Base 1993-94=100)								
Sl. No.	NIC Code	Sector	Weight	YEAR				
1	2	3	4	1994-95	1995-96	1996-97	1997-98	1998-99
				5	6	7	8	9
1	20-21	Manufacture of Food products	82.14	121.4	88.85	102.7	115.24	127.46
2	22	Manufacture of Beverages, Tobacco and related products	23.02	206.62	233.25	183.54	202.75	148.39
3	26	Manufacture of Textile products	15.25	133.93	165.63	274.91	272.11	278.46
4	28	Manufacture of Paper and paper products	8.93	201.32	212.14	236.79	502.42	502.65
5	30	Manufacture of Chemicals & chemical prod.	406.54	124.41	134.72	202.98	233.48	189.13
6	31	Manufacture of Rubber, Plastic, Petroleum and coal products	171.04	96.75	104.35	108.85	114.95	116.85
7	32	Manufacture of Non-metallic mineral products	14.28	34.19	41.63	42.55	21.94	15.32
8	33	Manufacture of Basic metal and Alloys	75.02	181.66	250.08	327.11	332.67	394.94
9	35-36	Manufacture of Machinery and equipment other than Transport	43.46	288.16	673.67	521.5	905.91	1348.9
10	37	Manufacture of Transport equipment machinery and parts	43.42	130.37	89.86	102.12	108.78	85.22
11	38	Other manufacturing industries	26.48	114.83	157.13	185.85	169.93	192.85
MANUFACTURING SECTOR INDEX			909.58	133.36	161.11	194.92	231.84	238.3

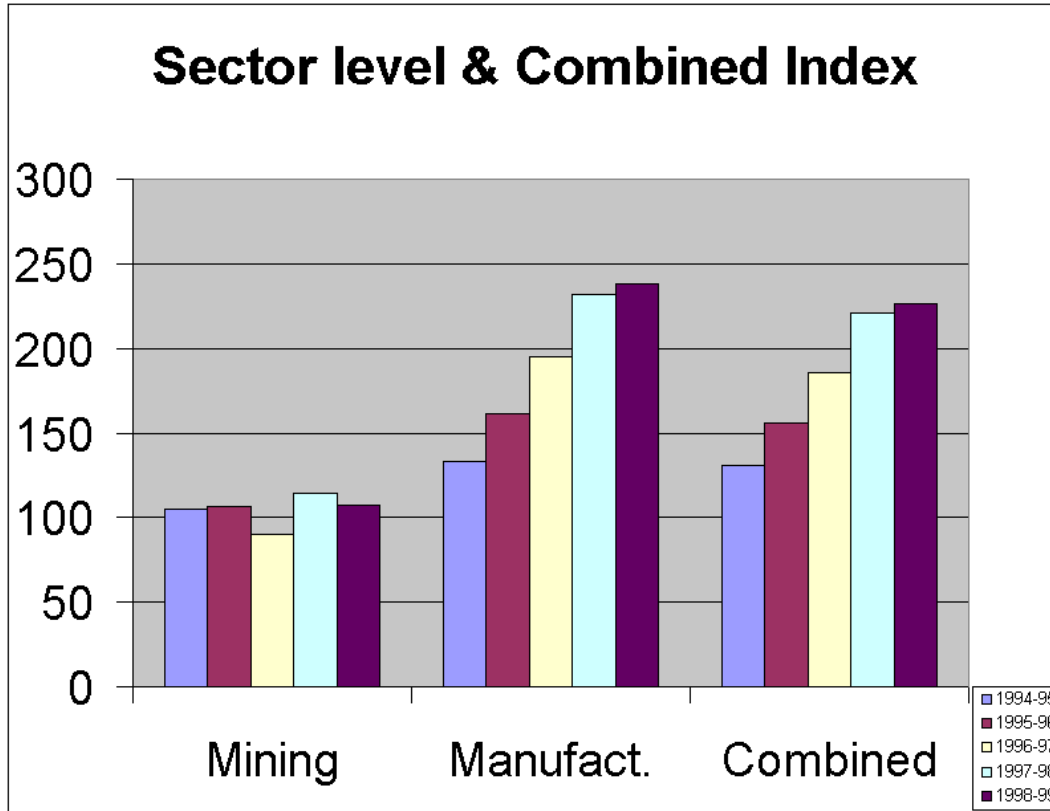


TABLE - 4															
INDEX OF INDUSTRIAL PRODUCTION															
Mining Sector (Monthwise group level indices)															
(Base 1993-94 = 100)															
Sl. No.	NIC code	Mining group description	Weight	1994 - 95											
				April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	12	Mining of Iron Ore	90.17	156.8	151.3	28.0	24.3	18.0	27.9	73.9	119.5	135.9	157.1	172.7	194.6
2	13	Mining of metal ores other than Iron Ore	0.25	229.6	220.8	69.4	10.1	10.1	10.1	69.4	89.5	129.9	119.8	109.7	89.5
Mining Sector Index			90.42	157.0	151.5	28.1	24.2	18.0	27.9	73.9	119.4	135.9	157.0	172.5	194.3

TABLE - 4 (contd)															
INDEX OF INDUSTRIAL PRODUCTION															
Mining Sector (Monthwise group level indices)															
(Base 1993-94 = 100)															
Sl.No.	NIC code	Mining group description	Weight	1995 - 96											
				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	16
1	12	Mining of Iron Ore	90.17	189.6	183.7	97.7	26.9	25.0	48.8	50.4	104.5	141.6	133.4	140.4	138.8
2	13	Mining of	0.25	108.4	148.8	69.4	30.3	79.5	79.5	140.0	160.2	179.1	136.7	169.0	179.1

		metal ores other than Iron Ore													
Mining Sector Index			90.42	189.4	183.6	97.6	26.9	25.2	48.9	50.6	104.7	141.7	133.4	140.5	138.9

TABLE - 4 (contd.)

INDEX OF INDUSTRIAL PRODUCTION

Mining Sector (Monthwise group level indices)

(Base 1993-94 = 100)

Sl. No.	NIC code	Mining group description	Weight	1996-97											
				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	16
1	12	Mining of Iron Ore	90.17	119.2	109.4	45.2	28.3	36.3	49.0	0	106.6	121.7	134.5	157.0	170.4
2	13	Mining of metal ores other than Iron Ore	0.25	136.7	100.0	169.0	89.5	79.5	79.5	100.0	179.1	140.0	158.9	100.0	237.0
Mining Sector Index			90.42	119.3	109.4	45.6	28.4	36.4	49.1	0.3	106.8	121.7	134.6	156.9	170.6

TABLE - 4 (contd.)

INDEX OF INDUSTRIAL PRODUCTION

Mining Sector (Monthwise group level indices)

(Base 1993-94 = 100)

Sl.No.	NIC code	Mining group description	Weight	1997 - 98											
				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	16
1	12	Mining of Iron Ore	90.17	157.7	145.7	54.2	27.5	21.4	45.9	102.4	131.1	162.4	184.2	168.0	176.2
2	13	Mining of metal ores other than Iron Ore	0.25	169.0	187.9	59.3	49.2	0	59.3	20.2	79.5	89.5	148.8	198.0	167.7
Mining Sector Index			90.42	157.8	145.8	54.2	27.5	21.3	46.0	102.2	131.0	162.2	184.1	168.1	176.1

TABLE - 4 (contd.)

INDEX OF INDUSTRIAL PRODUCTION

Mining Sector (Monthwise group level indices)

(Base 1993-94 = 100)

Sl. No.	NIC code	Mining group description	Weight	1998 - 99											
				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	16
1	12	Mining of Iron Ore	90.17	164.2	139.2	52.9	23.2	27.9	37.6	84.4	109.0	140.2	150.1	173.1	189.4
2	13	Mining of metal ores other than Iron Ore	0.25	148.8	179.1	49.2	49.2	49.2	49.2	49.2	79.6	89.5	140.0	150.1	179.1
Mining Sector Index			90.42	164.1	139.3	52.9	23.3	28.0	37.6	84.3	109.0	140.0	150.1	173.1	189.4

TABLE - 5															
INDEX OF INDUSTRIAL PRODUCTION															
Manufacturing Sector (Month wise group level indices)															
(Base 1993-94 = 100)															
Sl. No.	NIC code	Industry group description	Weight	1994-95											
				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	16
1	20-21	Manufacture of Food Products	82.14	110.7	109.7	112.4	115.6	117.2	108.8	117.6	118.6	148.3	143.1	125.4	129.5
2	22	Manufacture of Beverages, Tobacco and related products	23.02	203.8	272.5	211.2	162.8	152.2	176.2	208.6	208.8	219.8	241.6	206.4	215.6
3	26	Manufacture of Textile products	15.25	110.6	119.6	116.5	139.4	134.5	125.1	154.6	151.1	147.0	138.7	143.1	127.0
4	28	Manu. of Paper & Paper prod.	8.93	186.3	202.4	219.1	196.9	220.0	156.8	208.1	190.6	224.4	211.3	183.8	216.2
5	30	Manufacture of Chemicals and Chemical products	406.54	114.2	122.2	136.6	126.8	144.2	127.9	121.1	117.5	117.2	118.1	121.7	125.4
6	31	Manufacture of Rubber, Plastic, Petroleum and Coal products	171.04	89.0	96.9	103.4	104.1	84.4	92.9	90.3	89.6	97.4	106.3	103.2	103.6
7		Manufacture of Non-Metallic Mineral products	14.28	19.3	25.8	39.9	21.5	13.9	34.6	40.6	53.8	44.9	39.7	28.9	47.4
8	33	Manu. of Basic Metal & alloys	75.02	144.5	138.9	131.4	145.7	192.7	176.3	203.3	206.6	221.0	212.6	185.2	219.7
9	35-36	Manufacture of Machinery & Equipment other than Transport	43.46	144.4	204.3	265.2	273.1	158.5	255.3	170.4	157.8	277.4	345.9	556.0	649.6
10	37	equipment Manufacture Machinery	43.42	131.3	119.7	119.3	123.2	124.5	121.0	127.8	131.5	155.8	142.2	131.0	137.2

		of Transport and parts													
11	38	Other Manufacturing industries	26.48	96.4	97.8	112.7	117.8	124.9	125.7	116.9	121.8	122.5	102.9	123.5	115.1
Manufacturing Sector Index			909.58	114.8	127.4	133.2	129.8	132.4	129.4	126.7	125.0	137.5	140.7	146.7	156.7

TABLE - 5 (contd.)

INDEX OF INDUSTRIAL PRODUCTION

Manufacturing Sector (Month wise group level indices)

(Base 1993-94 = 100)

Sl. No.	NIC code	Industry group description	Weight	1995-96											
				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	16
1	20-21	Manufacture of Food Products	82.14	94.4	142.6	110.9	63.2	89.8	79.1	75.7	75.7	85.1	91.4	74.1	84.2
2	22	Manufacture of Beverages, Tobacco and related products	23.02	231.3	256.3	221.0	184.6	171.8	224.1	248.2	246.1	245.0	237.6	256.3	276.8
3	26	Manufacture of Textile products	15.25	151.2	175.9	183.7	182.6	176.9	159.7	84.2	172.6	176.7	178.6	178.7	166.9
4	28	Manu. of Paper & Paper prod.	8.93	191.2	197.6	202.9	202.1	184.2	218.7	208.3	218.7	206.2	223.1	223.6	269.2
5	30	Manufacture of Chemicals and Chemical products	406.54	100.8	128.2	135.3	136.8	140.3	137.4	135.4	139.0	139.8	129.1	139.7	154.7
6	31	Manufacture of Rubber, Plastic, Petroleum and Coal products	171.04	104.0	102.7	103.3	110.6	103.1	105.3	105.2	107.0	100.8	104.0	97.0	109.1
7	32	Manufacture of Non-Metallic Mineral products	14.28	47.3	51.2	38.0	23.2	9.0	44.3	55.9	51.9	51.5	39.8	47.5	40.1
8	33	Manu. of Basic Metal & alloys	75.02	223.5	260.2	251.4	289.5	222.2	206.8	211.9	236.4	287.0	261.7	272.8	277.6
9	35-36	Manufacture of Machinery & Equipment other than Transport	43.46	269.3	493.8	1210	694.8	628.9	1222.5	537.7	627.2	413.0	351.3	376.9	1258.0
10	37	Manufacture	43.42	82.7	94.8	88.3	41.5	78.6	82.1	93.2	105.1	99.1	100.6	95.2	117.2

		of Transport equipment Machinery and parts													
11	38	Other Manufacturing industries	26.48	140.8	138.3	165.8	137.9	122.8	138.9	148.7	166.4	177.9	173.2	175.4	199.4
Manufacturing Sector Index			909.58	123.5	155.3	188.8	161.7	156.2	183.0	149.7	160.5	154.5	145.6	150.0	204.8

TABLE - 5 (contd.)

INDEX OF INDUSTRIAL PRODUCTION

Manufacturing Sector (Month wise group level indices)

(Base 1993-94 = 100)

Sl. No.	NIC code	Industry group description	Weight	1996-97											
				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	16
1	20-21	Manufacture of Food Products	82.14	119.7	122.0	52.6	72.9	81.5	70.6	90.6	105.9	155.1	157.7	113.3	90.4
2	22	Manufacture of Beverages, Tobacco and related products	23.02	203.3	204.2	177.3	154.4	134.2	140.6	191.2	192.2	197.0	194.2	198.2	215.8
3	26	Manufacture of Textile products	15.25	262.6	265.1	273.4	283.9	286.2	258.8	261.6	273.3	272.1	284.2	284.8	292.5
4	28	Manu. of Paper & Paper prod.	8.93	200.6	235.3	226.5	273.4	288.2	202.6	225.9	231.2	244.9	229.9	214.6	268.0
5	30	Manufacture of Chemicals and Chemical products	406.54	180.6	126.8	115.3	260.3	179.1	216.4	254.4	232.7	199.6	236.3	213.7	219.6
6	31	Manufacture of Rubber, Plastic, Petroleum and Coal products	171.04	104.8	103.5	102.4	107.2	103.7	105.0	112.0	114.6	109.9	114.3	106.9	121.5
7	32	Manufacture of Non-Metallic Mineral products	14.28	45.2	37.8	52.6	38.8	45.2	48.5	31.4	44.3	48.9	49.2	24.6	43.6
8	33	Manu. of Basic Metal & alloys	75.02	387.0	251.8	344.5	342.3	331.6	266.2	430.8	269.1	358.1	339.5	306.6	297.9
9	35-36	Manufacture of Machinery & Equipment other than	43.46	343.3	393.2	533.0	459.4	582.3	854.3	480.7	536.3	644.6	700.0	382.3	354.5

		Transport													
10	37	Manufacture of Transport equipment Machinery and parts	43.42	106.8	113.1	108.9	107.8	100.2	108.9	85.1	89.8	104.3	116.9	81.0	102.5
11	38	Other Manufacturing industries	26.48	87.8	240.9	200.1	187.1	229.9	149.0	228.8	181.5	195.3	175.6	176.7	177.7
Manufacturing Sector Index			909.58	179.4	151.7	152.6	215.6	185.3	205.9	224.3	205.0	207.6	226.2	190.7	194.7

TABLE - 5 (contd.)

INDEX OF INDUSTRIAL PRODUCTION

Manufacturing Sector (Month wise group level indices)

(Base 1993-94 = 100)

Sl. No.	NIC code	Industry group description	Weight	1997-98											
				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	16
1	20-21	Manufacture of Food Products	82.14	122.7	86.1	90.2	99.3	99.0	91.5	113.8	132.1	175.4	143.7	125.6	113.8
2	22	Manufacture of Beverages, Tobacco and related products	23.02	219.7	285.1	243.5	216.5	207.2	196.5	188.4	193.1	160.8	173.7	149.3	199.2
3	26	Manufacture of Textile products	15.25	260.6	262.1	255.1	282.4	264.8	274.4	281.1	276.6	275.2	296.1	260.2	276.7
4	28	Manu. of Paper & Paper prod.	8.93	290.6	362.0	454.2	537.7	600.0	574.6	468.2	520.5	507.3	553.9	576.7	583.4
5	30	Manufacture of Chemicals and Chemical products	406.54	151.9	243.0	276.0	262.8	247.7	229.7	267.3	180.4	196.4	261.8	246.8	238.0
6	31	Manufacture of Rubber, Plastic, Petroleum and Coal products	171.04	116.8	102.6	118.9	123.3	118.4	114.9	122.5	126.1	110.4	110.6	104.1	110.8
7	32	Manufacture of Non-Metallic Mineral products	14.28	21.0	20.5	19.3	17.7	23.2	21.8	24.5	24.6	24.3	23.0	21.6	21.7
8	33	Manu. of Basic Metal & alloys	75.02	162.5	200.4	255.7	386.2	361.4	317.4	290.3	352.0	389.4	388.7	409.8	478.3
9	35-36	Manufacture of Machinery	43.46	188.4	179.9	637.2	941.5	843.6	1221.6	899.3	860.1	989.0	1703	1006	1402

		& Equipment other than Transport													
10	37	Manufacture of Transport equipment Machinery and parts	43.42	98.2	93.7	123.7	129.8	130.4	113.6	113.8	116.5	115.6	77.8	72.1	120.1
11	38	Other Manufacturing industries	26.48	111.9	157.9	155.5	172.2	156.0	184.7	173.8	170.6	144.5	215.4	204.8	191.9
Manufacturing Sector Index			909.58	143.5	181.0	231.0	253.4	238.7	243.4	244.6	212.0	227.6	289.3	246.6	271.0

TABLE - 5 (contd)

INDEX OF INDUSTRIAL PRODUCTION

Manufacturing Sector (Month wise group level indices)

(Base 1993-94 = 100)

SI. No.	NIC code	Industry group description	Weight	1998-99											
				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	16
1	20-21	Manufacture of Food Products	82.14	129.2	139.0	107.7	114.5	121.9	98.3	137.1	142.9	144.2	112.5	145.0	137.3
2	22	Manufacture of Beverages, Tobacco and related products	23.02	136.9	168.5	161.5	144.3	109.5	152.8	145.0	143.3	146.3	154.2	153.0	165.3
3	26	Manufacture of Textile products	15.25	259.7	277.6	242.4	265.0	180.1	251.5	281.3	386.1	384.5	264.0	288.6	260.8
4	28	Manu. of Paper & Paper prod.	8.93	378.4	386.0	510.7	461.7	418.9	519.7	528.6	515.3	771.4	523.1	459.2	558.8
5	30	Manufacture of Chemicals and Chemical products	406.54	190.6	131.3	218.7	188.4	272.3	130.0	117.7	201.5	209.0	139.3	217.0	253.8
6	31	Manufacture of Rubber, Plastic, Petroleum and Coal products	171.04	104.5	97.5	113.7	126.0	111.7	119.9	119.5	122.8	130.9	124.8	112.2	118.8
7	32	Manufacture of Non-Metallic Mineral products	14.28	14.7	14.3	14.4	17.5	15.9	14.8	15.7	14.1	15.5	14.7	15.3	16.8
8	33	Manu. of Basic Metal & alloys	75.02	264.8	318.8	442.8	548.1	376.3	272.0	273.0	261.8	281.9	621.8	446.9	631.0

9	35-36	Manufacture of Machinery & Equipment other than Transport	43.46	1296.6	2036	1367	1159	937.9	1551	1006	924.6	704.8	1751	1805	1649
10	37	Manufacture of Transport equipment Machinery and parts	43.42	84.0	67.6	86.2	105.4	84.7	68.9	100.0	84.8	105.5	89.1	72.3	74.3
11	38	Other Manufacturing industries	26.48	180.4	180.5	187.0	204.0	179.2	203.2	216.8	226.2	183.7	179.8	215.4	158.1
Manufacturing Sector Index			909.58	221.3	234.6	253.3	242.7	249.0	209.0	182.9	217.8	216.3	254.0	277.5	301.4

TABLE - 6														
INDEX OF INDUSTRIAL PRODUCTION														
(Combined Index)														
(Base 1993-94 = 100)														

Sl.No.	Sector	Weight	1994-95												
			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	Mining Index	90.42	157.0	151.5	28.1	24.2	18.0	27.9	73.9	119.4	135.9	157.0	172.5	194.3	
2	Manufacturing Index	909.58	114.8	127.4	133.2	129.8	132.4	129.4	126.7	125.0	137.5	140.7	146.7	156.7	
Combined Index			1000.00	118.6	130.0	123.7	120.2	122.1	120.2	121.9	124.5	137.3	142.2	149.0	160.1

TABLE - 6 (contd)														
INDEX OF INDUSTRIAL PRODUCTION														
(Combined Index)														
(Base 1993-94 = 100)														

Sl.No.	Sector	Weight	1995-96												
			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	Mining Index	90.42	189.4	183.6	97.6	26.9	25.2	48.9	50.6	104.7	141.7	133.4	140.5	138.9	
2	Manufacturing Index	909.58	123.5	155.3	188.8	161.7	156.2	183.0	149.7	160.5	154.5	145.6	150.0	204.8	
Combined Index			1000.00	129.5	157.8	180.5	149.5	144.3	170.8	140.8	155.5	153.3	144.5	149.1	198.8

TABLE - 6 (contd)														
INDEX OF INDUSTRIAL PRODUCTION														
(Combined Index)														
(Base 1993-94 = 100)														

Sl.No.	Sector	Weight	1995-96											
			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	Mining Index	90.42	119.3	109.4	45.6	28.4	36.4	49.1	0.3	106.8	121.7	134.6	156.9	170.6
2	Manufacturing Index	909.58	179.4	151.7	152.6	215.6	185.3	205.9	224.3	205.0	207.6	226.2	190.7	194.7

	Index													
Combined Index	1000.00	174.0	147.9	142.9	198.7	171.7	191.7	204.1	196.1	199.9	218.0	187.6	192.5	
TABLE - 6 (contd)														
INDEX OF INDUSTRIAL PRODUCTION														
(Combined Index)														
(Base 1993-94 = 100)														
			1995-96											
Sl.No.	Sector	Weight	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	Mining Index	90.42	157.8	145.8	54.2	27.5	21.3	46.0	102.2	131.0	162.2	184.1	168.1	176.1
2	Manufacturing Index	909.58	143.5	181.0	231.0	253.4	238.7	243.4	244.6	212.0	227.6	289.3	246.6	271.0
Combined Index	1000.00	144.8	177.8	215.0	233.0	219.1	225.6	231.8	204.6	221.6	279.8	239.5	262.4	
TABLE - 6 (contd)														
INDEX OF INDUSTRIAL PRODUCTION														
(Combined Index)														
(Base 1993-94 = 100)														
			1995-96											
Sl.No.	Sector	Weight	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	Mining Index	90.42	164.1	139.3	52.9	23.3	28.0	37.6	84.3	109.0	140.0	150.1	173.1	189.4
2	Manufacturing Index	909.58	221.3	234.6	253.3	242.7	249.0	209	182.9	217.8	216.3	254.0	277.5	301.4
Combined Index	1000.00	216.2	226.0	235.5	222.9	229.0	193.2	174.0	208.0	209.4	244.6	268.0	291.3	
