

STATE REVIEWS



Indian Minerals Yearbook 2018

(Part- I)

57th Edition

**STATE REVIEWS
(Maharashtra)**

(FINAL RELEASE)

**GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES**

Indira Bhavan, Civil Lines,
NAGPUR – 440 001

PHONE/FAX NO. (0712) 2565471
PBX : (0712) 2562649, 2560544, 2560648
E-MAIL : cme@ibm.gov.in
Website: www.ibm.gov.in

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MAHARASHTRA

Mineral Resources

Maharashtra is the sole producer of fluorite (graded) and the principal producer of bauxite, kyanite, manganese ore, quartzite and sand (others). The principal mineral-bearing belts in Maharashtra are Vidarbha area in the east and Konkan area in the west. Important mineral occurrences are: **bauxite** in Kolhapur, Raigad, Ratnagiri, Satara, Sindhudurg & Thane districts; **china clay** in Amravati, Bhandara, Chandrapur, Nagpur, Sindhudurg & Thane districts; **chromite** in Bhandara, Chandrapur, Nagpur & Sindhudurg districts; **coal** in Nagpur, Chandrapur & Yavatmal districts; **dolomite** in Chandrapur, Nagpur & Yavatmal districts; **fireclay** in Amravati, Chandrapur, Nagpur & Ratnagiri districts; **fluorite & Shale** in Chandrapur district; **iron ore (haematite)** in Chandrapur, Gadchiroli and Sindhudurg districts; **iron ore (magnetite)** in Gondia district; **kyanite** in Bhandara & Nagpur districts; **laterite** in Kolhapur district; **limestone** in Ahmednagar, Chandrapur, Dhule, Gadchiroli, Nagpur, Nanded, Pune, Sangli & Yavatmal districts; **manganese ore** in Bhandara, Nagpur & Ratnagiri districts; **corundum & pyrophyllite** in Bhandara district; **quartz & silica sand** in

Bhandara, Chandrapur, Gadchiroli, Gondia, Kolhapur, Nagpur, Ratnagiri & Sindhudurg districts and **quartzite** in Gondia & Nagpur districts; and **sillimanite** in Chandrapur district.

Other minerals that occur in the State are: **barytes** in Chandrapur & Gadchiroli districts; **copper** in Bhandara, Chandrapur, Gadchiroli & Nagpur districts; **felspar** in Sindhudurg district; **gold** in Bhandara & Nagpur districts; **granite** in Bhandara, Chandrapur, Dhule, Gadchiroli, Nagpur, Nanded, Nashik, Sindhudurg & Thane districts; **graphite & mica** in Sindhudurg district; **lead-zinc & tungsten** in Nagpur district; **marble** in Bhandara & Nagpur districts; **ochre** in Chandrapur & Nagpur districts; **silver & vanadium** in Bhandara district; **steatite** in Bhandara, Ratnagiri & Sindhudurg districts; and **titanium minerals** in Gondia & Ratnagiri districts (Table-1). As per the AMD of the Department of Atomic Energy, Maharashtra state accounted for 5.50 million tonnes of ilmenite resources and 0.01 million tonnes of rutile resources. The coal reserves and resources along with the various coalfields located in the State are shown in Table - 2.

Exploration & Development

The details of exploration activities conducted by GSI and other agencies (DGM) during 2017-18 are furnished in Table - 3.

Table – 2 : Reserves/Resources of Coal as on 1.4.2018 : Maharashtra

(In million tonnes)

Coalfield	Proved	Indicated	Inferred	Total
Total	7177.55	3073.55	2048.14	12999.24
Wardha Valley	4439.18	1723.27	1467.90	7630.35
Kamptee	1817.90	858.10	399.54	3075.54
Umrer, Makardhokra	308.41	-	160.70	469.11
Nand-Bander	602.06	492.18	-	1094.24
Bokhara	10.00	-	20.00	30.00

Source: Coal Directory of India, 2017-18.

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Table -1: Reserves/Resources of Minerals as on 1.4.2015: Maharashtra

Mineral	Unit	Reserves				Remaining Resources						Total resources (A+B)		
		Proved STD 111	Probable		Total (A)	Feasibility STD211	Pre-feasibility		Measured STD331	Indicated STD332	Inferred STD333		Reconnaissance STD334	Total (B)
			STD121	STD122			STD221	STD222						
Barytes	tonne	-	-	-	-	-	-	14800	89450	18610	-	122860	122860	
Bauxite	'000 tonnes	11281	11221	3686	26188	15449	2064	39197	8367	76501	-	158386	184574	
China clay#	'000 tonnes	-	-	-	-	418	81	-	184	5735	-	7248	7248	
Chromite	'000 tonnes	-	48	23	71	5	-	43	67	418	-	538	609	
Copper														
Ore	'000 tonnes	-	-	-	-	-	-	-	9399	4841	150	14390	14390	
Metal	'000 tonnes	-	-	-	-	-	-	-	89.65	47.48	0.54	137.67	137.67	
Dolomite#	'000 tonnes	-	4346	7768	-	-	16036	-	18050	339141	2994	397578	417994	
Felspar#	tonne	-	-	-	-	651835	-	-	-	253731	-	1228903	1228903	
Fireclay#	'000 tonnes	-	322	388	709	17	44	-	-	6652	-	6746	7455	
Fluorite	tonne	224824	63860	-	288684	-	-	-	-	100000	-	100000	388684	
Gold														
Ore	(primary) tonne	-	-	-	-	-	-	-	-	1517000	-	1517000	1517000	
Metal														
(primary) tonne														
Granite														
(Dimension														
Stone)#	'000 cum	-	-	-	-	-	6300	-	-	665622	-	1158847	1158847	
Graphite	tonne	-	-	-	-	-	-	-	-	1160000	-	1160000	1160000	
Iron ore														
(Haematite)	'000 tonnes	11283	3032	2926	17241	9028	6673	75724	71806	72588	32185	276862	294103	
Iron ore														
(Magnetite)	'000 tonnes	359	-	225	583	149	-	-	-	90	-	302	885	
Kyanite	tonne	212881	-	48958	261839	30085	27808	1012	45000	1684113	-	2975497	3237336	
Laterite	'000 tonnes	-	278	-	278	2215	1393	319	-	7577	-	11903	12181	
Lead-Zinc														
Ore	'000 tonnes	-	-	-	-	-	-	1967	6305	1000	-	9272	9272	
Zinc metal	'000 tonnes	-	-	-	-	-	-	133.56	428.11	28	-	589.67	589.67	
Limestone	'000 tonnes	424035	143115	39905	607055	583978	206162	28595	234518	1056168	-	2246255	2853310	

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Table - 1(Concl'd)

Mineral	Unit	Reserves					Remaining Resources					Total resources (A+B)		
		Proved STD 111	Probable		Total (A)	Feasibility STD211	Pre-feasibility		Measured STD331	Indicated STD332	Inferred STD333		Reconnaissance STD334	Total (B)
			STD121	STD122			STD221	STD222						
Manganese Ore	'000 tonnes	10867	1787	1055	13710	1974	4966	7207	-	5350	3369	43	22910	36619
Marble#	'000 tonnes	-	-	-	-	-	324	81	-	-	57642	-	58047	58047
Mica#	kg	-	-	-	-	-	-	65916000	-	-	15120000	-	81036000	81036000
Ochre#	tonne	22260	-	16000	38260	-	-	156740	6010	6010	286000	-	454760	493020
Pyrophyllite#	tonne	-	-	705169	705169	45532	4780000	-	-	-	407160	-	5232692	5937861
Quartz-														
Silica sand#	'000 tonnes	15188	93	9984	25265	33039	15455	48535	-	355	57077	-	154461	179726
Quartzite#	'000 tonnes	9026	-	-	9026	49172	-	21156	-	-	11344	-	81671	90697
Silver														
Ore	tonne	-	-	-	-	-	-	-	-	-	235000	-	235000	235000
Metal	tonne	-	-	-	-	-	-	-	-	-	0.23	-	0.23	0.23
Sillimanite	tonne	181002	-	22274	203276	-	-	-	64	15516	-	-	15580	218856
Talc/Steatite/														
Soapstone#	'000 tonnes	-	-	-	-	-	-	-	2565	14262	-	-	16827	16827
Tungsten														
Ore	tonne	-	-	-	-	-	-	-	610000	5637250	1830000	-	8077250	8077250
Contained														
WO ₃	tonne	-	-	-	-	-	-	-	1903	10304	3828	-	16035	16035
Vanadium														
Ore	tonne	-	-	-	-	276530	-	108100	-	-	-	-	384630	384630
Metal	tonne	-	-	-	-	1106.12	-	432.4	-	-	-	-	1538.52	1538.52

Figures rounded off
Declared as Minor Minerals vide Gazette Notification dated 10.02.2015
Minor Mineral before Gazette Notification dated 10.02.2015

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Table – 3: Details of Exploration Activities in Maharashtra, 2017-18

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI Copper Chandrapur	Minjhari North block	-	-	6	1249.70	-	Preliminary exploration for copper and associated mineralisation was carried out in this block by drilling six boreholes to a total depth of 1,249.70 m. Initially four boreholes were drilled at shallower level (120 m and 90 m vertical depth of intersection). However, significant mineralisation could not be intersected in these four boreholes except faint chalcopyrite dissemination. Subsequently, the fifth borehole drilled at deeper level intersected very good sulphide mineralisation from 241.50 m to 259.80 m & 267.00 to 281.30 m depth. This has established a signature of deep-seated mineralisation. Consequently, another borehole is drilled up to 205.70 m depth was drilled.
	Wassera-Seoni area	1:12500	50	-	-	100	During reconnaissance survey for establishing copper and associated mineralisation, an area of 50 sq. km was mapped on 1:12500 scale. Two prominent quartz veins were mapped. The Wassera quartz vein that was continuously exposed for about 2.0 km length had width ranging from 5-40 m. The Seoni quartz vein that was exposed towards SE of the village extended up to a strike length of about 1 km with width varying from 5 to 30 m. The Wassera quartz vein showed very sparse primary chalcopyrite mineralisation in dissemination form and secondary malachite encrustations. Soil samples (100 nos.) were collected from the soil covered area. Chemical results of 30 BRS showed Cu values ranging from 10 ppm to 1000 ppm with most of the values below 200 ppm. The southern part of the quartz vein was comparatively rich in Cu than northern part.

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Table - 3 (Contd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
Copper							
Gadchiroli & Chandrapur	Ghanpur-Mudholi West block	1:2000	1.0	11	2000.5	-	G3 level exploration for establishing zones of copper and associated mineralisation was carried out by Geophysical survey for 12.44 lkm and detailed mapping for 1 sq. km on 1:2000 scale. A total of 2,000.5 m drilling was completed in 11 boreholes. Out of 11 boreholes, 9 boreholes were of first level and two boreholes were of second level. Based on the intersection of mineralised zones of first level boreholes, three second level boreholes were drilled for 120 m vertical depth. All mineralised boreholes were sampled at 0.5 m length and sent for chemical analysis. Bedrock samples of quartz chlorite veins showed copper value ranging from 15 ppm to 0.69%. Selected trench samples showed copper value ranging from 20 ppm to 555 ppm.
Iron ore							
Sindhudurg	Shiroda area	-	-	-	-	-	Reconnaissance survey for delineating low-grade iron ore and associated elements was taken up in laterites of this area. During study detached BIF bands, manganese-rich laterites and remnants/ relicts of BIF bands within laterites were seen at many places. Six BIF bands and two manganiferous bands were observed. The chemical results of BRS samples from BIF showed 56-60% Fe and laterites showed 26-40% Fe. The values of associated elements viz. manganese and chromium were also encouraging. BIF samples showed 4% Mn in Sateli area, 3.2% Mn in SW of Kondura and 3.7% Mn in Aros area while laterite samples showed Mn values of 19,650 ppm and 18,776 ppm in and around Aros, 2,965 ppm in Guldube, 2,550 ppm in Agralvadi, 1,440 and 2,080 ppm in and around Kondura and 1,300 ppm in Sunsuravadi areas. Higher values of Au of 326 ppb from BIF of Tiroda area, 44 ppb to the south of Guldube, 201 ppb in Sateli, 142 ppb in BIF and 32 ppb & 46 ppb in laterite of Aros area, 32 ppb in laterite of Talavna area. Anomalous Cr values

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Table - 3 (Contd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
							were observed in laterite of Arauli area (10,000 ppm), Talavna area (5,075 ppm) and in Guldube area (2,043, 3,540 & 5,214 ppm). XRD analyses of samples collected from Tiroda Iron ore mine area indicate presence of ramsbeckite. Sample collected from north of Kondura indicated presence of anandite and from north of Aros market indicated presence of wroewolfeite.
REE and RM mineralisation							
Bhandara	Khapa-Alesur area,	1:12500	50	-	-	190	Reconnaissance survey for locating REE and RM mineralisation in granite and associated pegmatite veins of Sausar Mobile Belt, in Khapa-Alesur area, Bhandara district was carried out involving large-scale mapping of 50 sq. km area, along with pitting/ trenching and sampling. Four numbers of complex and zoned pegmatites were demarcated having beryl mineralisation apart from garnet, tourmaline and micas making likely hosts for Be, Li and REE. Pit samples were collected from the talus horizons of pegmatites and stream channels near granite. The heavy fraction of stream sediments and talus material were also collected from the 1 st and 2 nd order streams of the area under study.
Nagpur	Nawegaon-Goreghat, -Chawari area	1:12500	50	-	-	-	During reconnaissance survey (G4) in Nawegaon-Goreghat-Chawari areas, Nagpur district an area of 50 sq. km was mapped on large scale and pitting/ trenching and sampling were also carried out. Four numbers of complex and zoned pegmatites have been delineated and mapped. These pegmatites have beryl mineralisation apart from garnet, tourmaline and micas. Apatite and xenotime grain were also observed in pegmatites. Tungsten (scheelite) mineralisation has been reported in foliated granites.
Nanded & Yavatmal	Kinwat & Sendgi, area	1:12500	50	-	-	210	Reconnaissance survey for REE & RM mineralisation in granitoids and pegmatite bodies was carried out in Kinwat and Sendgi area, Nanded and Yavatmal distt. An area of 50 sq. km was mapped on 1:12500 scale and 75 BRS, 50 samples each of SSS & PTS and 15 of

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Table - 3 (Contd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
							petrochemical samples were collected. BRS of K-felspar granite have yielded a total REE value of 1,100 ppm and tungsten value showed a maximum of 300 ppm.
REE							
Sindhudurg		1:12500	80	-	-	217	A reconnaissance survey for delineating REE-rich and associated minerals in Kaladgi Supergroup was carried out involving large-scale mapping of 80 sq. km along with the collection of 122 talus/ regolith, 35 SSS 15 pit samples, 10 samples each of BRS, PCS & XRD and 15 PS. The area comprised mainly of BIF, tremolite schist, serpentinite and amphibolite, basement gneiss, mafic and felsic intrusives, etc. The target lithologies were granitoids and pegmatites. The analytical results indicated REE from 500 to 1,120 ppm from 14 talus/regolith samples. The zirconium (Zr) value ranged from 85 ppm to 3,226 ppm. In SSS samples, total REE ranged between 200 ppm and 500 ppm and highest value of Zr was 1,816 ppm.
Baryte							
Chandrapur	Dongar Haldi	-	100	-	-	75	During G4 stage reconnaissance survey for baryte and associated mineralisation, an area of 100 sq. km was mapped. The various rock types exposed in the area were pink granite, Pakhal sandstone, etc. Baryte occurred as veins and veinlets in pink granite. Analytical results of 75 BRS samples showed Barium (Ba) varying from 24.36% to 58.39% with an average of 48.74%. Baryte of Phutana shows 55 to 57% of Ba with minor sulphides, such as Cu value ranges between 10 ppm and 55 ppm, Pb ranged from 10 ppm to 20 ppm. In Dongar Haldi, Ba content varies from 36.95% to 55.91%. In 25 pit and trench samples, Ba value ranged from 47.36% to 58.65%.
MECL							
Manganese							
Bhandara & Nagpur	Lanjera-Futala block, Panchala block	1:12500	8	7	518	151	G4 level exploration in Lanjera-Futala block, Bhandara district and Mandri-Panchala block, Nagpur district was carried out with the following objectives (i) geological mapping on 12500 scale and to demarcate the rock types of manganese-bearing Mansar formation, (ii) collect samples and analyse them for Mn content, (iii) estimate Mn ore

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Table - 3 (Concl'd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
MOIL Manganese Bhandara & Nagpur	Kandri, Mansar, Beldongri, Gumgaon, Old Satuk & New Satuk	-	-	98	23468	-	resources as per minerals (Evidence of Mineral Contents) Rules 2015, etc. In Bhandara district, exploration involved mapping of 8 sq. km area on 1:12500 scale, drilling of 7 boreholes to a cumulative depth of 518.00 m and sampling & chemical analysis of 151 samples. Estimated about 75.67 thousand tonnes of Mn ore resources with an average grade of 14.37% Mn at cut-off 10% Mn. In Nagpur district, exploration was carried by mapping of 2.50 sq. km area on 1:12500 scale, drilling to a cumulative depth 500 m in 4 bore holes. Sampling and analysis of 165 samples were carried out. Estimated about 213.87 thousand tonnes of Mn ore resources with an average grade of 23.21% Mn, 0.98% P ₂ O ₅ , 8.58% MnO ₂ , 12.86% Fe ₂ O ₃ and 31.76% SiO ₂ , at cut-off 10% Mn. Aforesaid two exploration work were funded through NMET.
							During 2017-18, a total of 23,468 m exploratory drilling involving 98 boreholes in 12 manganese ore mines were carried out. Among these 12 mines, two mines viz, Dongri buzurg & Chikla manganese mines are situated in District Bhandara & six mines viz, Kandri, Mansar, Beldongri, Gumgaon, Old Satuk & New Satuk mines are situated in District Nagpur, Maharashtra State. Four mines viz. Ukwa, Balaghat, Tirodi and Sitapatore/Sukli mines are situated in District Balaghat, Madhya Pradesh. The reported reserves/resources of manganese ore as on 1.4.2018 of all the mines owned by MOIL have been estimated at 87.25 million tonnes. Ukwa (13.84 million tonnes), Bharweli (24.77 million tonnes), Tirodi (0.75 million tonnes), Sitapatore & Sukli (0.15 million tonnes & 0.16 million tonnes), Chikla (4.67 million tonnes), Dongri Buzurg (18.01 million tonnes), Kandri (12.17 million tonnes), Mansar (5.65 million tonnes), Beldongri (0.19 million tonnes), Old Satuk (0.50 million tonnes), New Satuk (0.03 million tonnes) and Gumgaon (6.31 million tonnes). A total of 831 samples were analysed.

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Production

Maharashtra was the sole producer of fluorite and kyanite. The value of minor minerals production was estimated at ` 4,173 crore for the year 2017-18 (Table-4).

The number of reporting mines was 73 in 2017-18 in case of MCDR minerals.

Mineral-based Industry

The present status of each Mineral-based Industry is not readily available. However, the important mineral-based industries in the organised sector in the State are provided in Table-5.

**Table – 4 : Mineral Production in Maharashtra, 2015-16 to 2017-18
(Excluding Atomic Minerals)**

(Value in `000)

Mineral	Unit	2015-16			2016-17			2017-18 (P)		
		No. of mines	Quantity	Value ^{\$}	No. of mines	Quantity	Value ^{\$}	No. of mines	Quantity	Value ^{\$}
All Minerals		71		49970264	73		52885091	73		54014418
Coal	'000 t	-	38351	-	-	40559	-	-	42219	-
Bauxite	t	13	1907543	1043950	13	1946032	942724	11	2028422	970673
Chromite	t	1	90	432	1	1	5	1	17	82
Iron Ore	'000 t	16	1420	1500657	16	1321	1152442	15	940	1201680
Manganese Ore	t	18	620672	2803625	19	604300	6181596	24	731458	6941500
Fluorite (graded)	t	1	2333	12965	1	1175	6733	1	1313	7097
Kyanite	t	4	2901	14180	4	3254	13458	4	7818	23002
Sillimanite	t	1	9019	27133	1	6196	22739	1	3184	10741
Limestone	'000 t	17	13036	2842122	18	12124	2840194	16	14152	3134443
Sulphur [#]	t	-	56670	-	-	48991	-	-	58904	-
Minor Minerals [@]		-	-	41725200	-	-	41725200	-	-	41725200

Note : The number of mines excludes Fuel Minerals and Minor Minerals.

\$ Excluding Fuel Minerals.

Recovered as by-product from oil refinery.

@ Figures for earlier years have been repeated as estimates wherever necessary, because of non-receipt of data.

Table – 5 : Principal Mineral-based Industries in Maharashtra

Industry/plant	Capacity ('000 tpy)
Abrasives	
Associated Abrasives Ltd, Nashik.	NA
Flexoplast Abrasives (I) Ltd, Chikalthana Distt Aurangabad.	500000 (sq. m)
Grindwell Norton Ltd, Mora, Uraon, Raigad.	NA
Aluminium Products	
Hindalco, Recycling Plant, Taloja.	50
Hindalco, Mouda, Distt Nagpur.	30 (rolling mill) 14 (conductor rod)
Asbestos Products	
Everest Building Products Ltd, Mulund.	NA

(Contd)

Table -5 (Contd)

Industry/plant	Capacity ('000 tpy)
Hyderabad Industries Ltd, Musarane	60.0
Newkem Products Corp, Mumbai.	9.9
Swastik Industries, Pune.	NA
Cement	
ACC Ltd, Chanda, Distt Chandrapur.	2640
Ambuja Cement Ltd, (Maratha Cement Works), Upparwahi, Chandrapur.	2400
India Cement, Vaijnath, Parli, Distt Beed (G).	1100
JSW Cement, Dolvi, Distt Raigad.	970 (slag cement)
Manikgarh Cement, Gadchandur, Distt Chandrapur.	2200
Murli Industries Ltd, Naranda, Distt Chandrapur.	3000

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Table - 5 (Contd)

Industry/plant	Capacity ('000 tpy)
Orient Cement, Jalgaon (G).	2000
Reliance Cement, Butibori, Distt Nagpur (G).	500
UltraTech Cement, Hotgi, Distt Solapur (G).	1800
UltraTech Cement Ltd, Awarpur, Distt Chandrapur.	3600
UltraTech Cement Ltd, Ratnagiri Works (G), Distt Ratnagiri.	400
Ceramics	
Four Field, Pimpri, Distt Pune.	1.2
H & R Johnson (India) Ltd, Pen.	154.8
Joglekar Refractory & Ceramics Pvt Ltd, Rabale, Distt Thane.	364.8
NITCO Tiles Ltd, Raigad.	66 lakh (sq. m)
NECO Ceramics, Nagpur.	8.1
Chemicals	
Borax Morarji Ltd, Ambarnath.	25 (borax) 8 (boric acid)
Century Rayon, Shahad, Distt Thane.	25 (rayon yarn) 20 (caustic soda)
Foseco India Ltd, Sanswadi.	15 (foundry chemicals)
Gopalchand Rasayan, Tarapur, Distt Thane.	41.3 (H ₂ SO ₄)
MTZ Industries Ltd, Patalganga.	1.2 (sulphur)
National Peroxide Ltd, Kalyan, Distt. Thane.	1.4 (sodium per borate)
Sudarshan Chemical Ind. Ltd, Roha, Distt Raigad	5.2 (pigments)
Tecil Chemical & Hydro Power Ltd, Mumbai.	30 (calcium carbide)
Zirconium Chemicals Pvt. Ltd, Taloja, Distt Raigad.	0.3 (zirconium salt)
Copper Wire Rods	
HCL, Copper project, Taloja.	60
Electrode	
GEE Ltd., Thane.	4.02 (Mill. m)
Electrolytic Manganese Dioxide	
MOIL, Dongri Buzurg, Distt Bhandara.	1
Union Carbide Ltd (Now Eveready Ltd), Thane.	2.5
Fertilizers	
Balaji Fertilisers Pvt. Ltd, Nanded.	20 (SSP)
Basant Agro Tech (India) Ltd, Barshi Takli, Akola.	120 (SSP)

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Table - 5 (Contd)

Industry/plant	Capacity ('000 tpy)
Basant Agro Tech (India) Ltd, Jalgaon.	132 (SSP)
BEC Fertilizer (Unit of Bhilai Engg. Corpn. Ltd), Gunjakheda, Wardha.	66 (SSP)
Bharat Agri Fert & Realty Ltd, Kharivali, Thane.	132 (SSP)
Coromandel International Ltd (Formerly Liberty Phosphate Ltd.), Pali, Raigad.	66 (SSP)
Datta Agro Services Pvt. Ltd, Bhokari, Jalgaon.	132 (SSP)
Deepak Fertilizers & Petrochemical Corporation Ltd, Taloja.	230 (ANP)
Kasturchand Fertilizers (Erstwhile Jairam Phosphates Ltd), Wadsa, Gadchiroli.	66 (SSP)
Rajlaxmi Agrotech India Pvt. Ltd, Gundewadi, Jalna.	60 (SSP)
R. C. Fertilisers Ltd, Lakhmapur, Nasik.	132 (SSP)
Rama Krishi Rasayan (A division of Rama Phosphates Ltd.), Loni Kalbhor, Pune.	132 (SSP)
RM Phosphate and Chems Pvt. Ltd, Nardala, Dhule.	264 (SSP)
Shiva Global Agro Industries Ltd (Formerly Shiva Fertilizers Ltd.), Nanded.	120 (SSP)
Shri Bhavani Mishra Fertilizers Pvt. Ltd, Vazirabad, Nanded.	30 (SSP)
Shri Gajraj Fertilizers Pvt. Ltd, Bhojar, Yavatmal.	28 (SSP)
Shree Pushkar Chems & Fertiliser Ltd, Lote Porshuram, Khed, Ratnagiri.	100 (SSP)
Shree Datta Ferts & Chemicals Pvt Ltd, Amravati.	60 (SSP)
Zuari Fertilizers and Chemicals Ltd, Mahad, Distt Raigad.	216 (SSP)
MAIDCL, Rasayani.	60 (NPK)
MAIDCL, Nanded.	70 (NPK)
MAIDCL, Pachora, Distt Jalgaon.	70 (NPK)
MAIDCL, Wardha.	65 (NPK)
MAIDCL, Kolhapur.	30 (NPK)
MAIDCL, Jalna.	30 (NPK)
RCF, Trombay.	330 (Urea) 690 (Complex)
RCF, Thal, Distt Raigad.	2000 (Urea)
Pesticides	
Hindustan Insecticides Ltd, Rasaini, Distt Raigad.	13.2
Pentacem, Kendgaon, Distt Ahmednagar.	1.7

(Contd)

STATE REVIEWS

Table - 5 (Contd)

Industry/plant	Capacity (^{'000} tpy)
Glass	
Ace Glass Containers Ltd, Pimpri, Distt Nashik.	NA
Apte Flasks & refills Pvt. Ltd, Raigaon.	1500
Astral Glass Pvt. Ltd, Igatpuri.	16.4
Empire Industries Ltd (Vitrum Glass), Vikroli, Mumbai.	37.5
Hindustan National Glass & Industries Ltd, Nashik.	320 TPD
Paisa Fund Glass Works, Talegaon Dabhade.	0.06
The Mahalaxmi Glass Works Pvt. Ltd, Mumbai.	48.0
Iron & Steel	
JSW Ispat Steel Ltd, Dolvi, Raigad.	2800 (Sinter) 1600 (Sponge iron) 5000 (Crude/Liquid steel) 2000 (pig iron)
Lloyds Steel Ltd, Wardha.	600 (HRC) 350 (CRC) 250 (GPC)
Indian Seamless Steel & Alloys Ltd, Jejuri, Distt Pune.	450 (seamless tubes) 350 (alloy & carbon steel)
Sunflag Iron & Steel Co. Ltd, Bhandara.	150 (sponge iron) 200 (alloy steel) 364 (sinter)
Facor Steel Ltd, MIDC, Hingana, Nagpur.	60 (Alloys) Carbon steel & Specialised Steel
Pig Iron	
(Contd)	

Table - 5 (Concl'd)

Industry/plant	Capacity (^{'000} tpy)
Ispat Metallics India Ltd, Dolvi, Raigad.	2000
Tata Metallics Ltd (Usha Ispat Ltd, Redi), Distt Sindhudurg.	300
Sona Alloys Pvt Ltd, Satara.	314
Sponge Iron	
Ambey Iron Pvt. Ltd, Chincholi, Solapur.	45
Dhanalakshmi Sponge Iron, Daregaon, Distt Jalana.	60
Lloyds Metals & Engineers, Ghugus, Chandrapur.	270
Welspun Max Steel Ltd (formerly Vikram Ispat), Salav, Distt Raigad.	900
Ferro-alloys	
Bharat Pulverising Mills Ltd, Mumbai.	0.2
Chandrapur Ferro Alloys Plant (SAIL), (formerly Maharashtra Elektros melt Ltd), Chandrapur.	100
Natural Sugar & Allied Industries Ltd, Sai Nagar, Ranjani, Distt Osmanabad.	12 MVA
Sunbel Alloys Co. Ltd, Thane-Belapur.	0.3
Welspun Maxsteel Ltd, Salav, Raigad.	90
Refractory	
ACE Refractories, Nagpur.	60
Petroleum Refinery	
BPCL, Mumbai.	12000
HPCL, Mumbai.	6500

(G) : Grinding units.

Note: Data, for fertilizer and cement industries besides their respective websites, have been taken from Indian Fertilizer Scenario, FAI Statistics, and Survey of Cement Industry & Directory, respectively.