

STATE REVIEWS



Indian Minerals Yearbook 2017

(Part- I)

56th 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 2016-17 are furnished in Table - 3.

Table – 2 : Reserves/Resources of Coal as on 1.4.2017 : Maharashtra

(In million tonnes)

Coalfield	Proved	Indicated	Inferred	Total
Total	7038.20	3157.75	2063.21	12259.16
Wardha Valley	4399.98	1723.27	1467.90	7591.15
Kamptee	1717.75	942.30	414.61	3074.66
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, 2016-17.

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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	16809	8367	76501	-	158386	184574	
China clay#	'000 tonnes	-	-	-	-	418	81	831	184	5735	-	7248	7248	
Chromite	'000 tonnes	-	48	23	71	5	-	5	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	7371	18050	339141	2994	397578	417994	
Felspar#	tonne	-	-	-	-	651835	-	323337	-	253731	-	1228903	1228903	
Fireclay#	'000 tonnes	-	322	388	709	17	44	32	-	6652	-	6746	7455	
Fluorite	tonne	224824	63860	-	288684	-	-	-	-	100000	-	100000	388684	
Gold														
Ore	(primary) tonne	-	-	-	-	-	-	-	-	1517000	-	1517000	1517000	
Metal	(primary) tonne	-	-	-	-	-	-	-	-	3.55	-	3.55	3.55	
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	8858	71806	72588	32185	276862	294103	
Iron ore														
(Magnetite)	'000 tonnes	359	-	225	583	149	-	63	-	90	-	302	885	
Kyanite	tonne	212881	-	48958	261839	30085	27808	1187479	1012	45000	1684113	2975497	3237336	
Laterite	'000 tonnes	-	278	-	278	2215	1393	400	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	136835	28595	234518	1056168	2246255	2853310	

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Table - 1(Concl.)

Mineral	Unit	Reserves						Remaining Resources						Total resources (A+B)								
		Proved		Probable		Total (A)		Feasibility		Pre-feasibility		Measured			Indicated		Inferred		Reconnaissance		Total (B)	
		STD 111	STD 121	STD 122	STD 121	STD 122	STD 211	STD 221	STD 222	STD 331	STD 332	STD 333	STD 334		STD 331	STD 332	STD 333	STD 334	STD 331	STD 332	STD 333	STD 334
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, 2016-17

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI Copper, Chandrapur	Minjhari area	-	0.75	7	1233.80	-	G3 stage preliminary exploration for establishing copper and associated mineralisation in Minjhari area was carried out by detailed geological mapping and drilling. All the boreholes were planned at 120 m vertical depth of intersection and 200 m strike spacing. Four Boreholes have successfully intersected primary mineralised zone. Based on the chemical analysis of core samples from different boreholes, mineralised lodes are demarcated. The loads are varying grades (0.20 to 0.50% of Cu) and thickness (2.0 to 16.65 m) with a maximum of 4.26% Cu over 1.05 m width. The gold concentration in different boreholes is also erratic in nature and varies from 25 to 420 ppb.
REE and RM Nagpur	Ghuksi granite	1:10000	75	-	-	-	G4 stage investigation was taken up for locating REE and RM mineralisation in Ghuksi granite. Two major pegmatite bodies were identified near Ghuksi village. Bedrock and stream sediment samples of granitic and pegmatitic terrain located at north of Ghuksi village have yielded the highest total REE values of 0.612% and 1.23% respectively. These zones are potential for REE and RM mineralisation. In SEM-EDX study REE bearing minerals such as zircon, monazite, allanite, xenotime and apatite were observed.
	Nawegaon Goreghat Chawari areas	-	-	-	601	182	G3 level preliminary exploration was carried out for REE and RM through detailed exploration (Auger drilling) in Nawegaon-Goreghat Chawari areas. Auger drilling of 601 m was carried out in Junewani, Umri and Nawegaon area. A total of 182 samples was

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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		
							collected. The auger samples were processed by panning to separate heavy fractions sent to chemical lab for petro-mineralogical studies.
Sindhudurg	Kaladgi	1:12500	100	-	-	-	G4 stage reconnaissance survey was carried out for delineating REE rich and associated minerals by large scale mapping. Based on the chemical results of 254 of talus/regolith sample and all 65 panned SSS showing total REE ranging in between 1000 and 2243 ppm and 26 samples in between 500 and 1000 ppm. The rock type is porphyritic granite/granite gneiss with numerous pegmatite and quartz veins. In SSS the highest value of total REE is 951 ppm and highest value of Zr is 13,399 ppm. On the basis of anomalous analytical results, a 7 sq km area has been demarcated and explored by pitting.
Baryte Chandrapur	Naleswar- Tukum area	1:12500	150	-	-	-	G4 stage reconnaissance survey for baryte and associated mineralisation was carried out. There are three parallel shear/fault zones, trending NNW-SSE within the Mul Granite, on which the veins of barite occur as intrusive. Baryte is associated with sulphide minerals such as disseminated chalcopyrite, chunks of galena and purple coloured crystals of fluorite. This assemblage is seen only in the baryte bearing bodies of Naleswar village. Analytical results show Ba ranges from 41.89 to 58.39%.
Tungsten Gadchiroli	Navgram area	1:12500	75	-	-	-	G4 stage investigation for tungsten and associated mineralisation was taken up in this area. Aerial reconnaissance study was carried out for an area of 150 sq km in and around Navgram. The Sitabai Dongri quartz (1.7 km x 5-20 m) was identified as a mineralised zone in which specks and dissemination of

(Contd.)

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Table - 3 (Concl.)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
							<p>chalcopyrite, pyrite, azurite, galena and sphalerite were observed. On the basis of results of chemical analysis from BRS & PTS over 1.7 km strike length a 60 m stretch of quartz reef, east of Navgram was found to be tungsten bearing mineralised zone, showing 255 to 361 ppm of W. A mineralised zone of about 1 km strike length with 5 to 18 m width in Sitabai Dongri quartz reef (NE of Navgram) which is supported by chemical results of BRS & PTS showing 10 ppm to 0.31% of Cu, 10 to 0.14% of Zn and <10 to 0.14% of Pb. Another basemetal mineralised zone (200m strike length with 5-10m width) was identified in northern continuity of Sitabai Dongri quartz reef, showing 520 to 270 ppm of Zn, 280 to 510 ppm of Cu and 260 to 600 ppm of Pb. Au value of 30 to 670 ppb was found in 13 bedrock samples in mineralised quartz reef.</p>

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 2016-17 (Table-4).

The number of reporting mines was 72 in 2016-17 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 given in Table-5.

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**Table – 4 : Mineral Production in Maharashtra, 2014-15 to 2016-17
(Excluding Atomic Minerals)**

(Value in `000)

Mineral	Unit	2014-15			2015-16			2016-17 (P)		
		No. of mines	Quantity	Value	No. of mines	Quantity	Value	No. of mines	Quantity	Value ^s
All Minerals		168		120391264	131		115310564	132		51723203
Coal	'000t	66	38257	67045400	60	38351	65340300	60	40559	-
Bauxite	t	14	2669408	1274425	13	1907543	1043950	13	1946042	934677
Chromite	t	1	26	79	1	90	432	1	1	5
Iron Ore	'000t	14	2143	2601529	16	1420	1500657	16	1321	1372343
Manganese Ore	t	22	670238	5150230	18	620672	2803625	19	604301	5248937
Dolomite [#]	t	6	102236	28431	-	-	-	-	-	-
Fireclay [#]	t	1	3799	598	-	-	-	-	-	-
Fluorite(graded)	t	1	2946	13761	1	2333	12965	1	1175	6166
Kyanite	t	2	1855	8665	4	2901	14180	4	3254	13632
Sillimanite	t	1	6472	17948	1	9019	27133	1	6196	21447
Laterite [#]	t	1	69000	9660	-	-	-	-	-	-
Limestone	'000t	17	12085	2338475	17	13036	2842122	17	12119	2400796
Pyrophyllite [#]	t	**	1030	692	-	-	-	-	-	-
Quartz [#]	t	6	7256	6030	-	-	-	-	-	-
Quartzite [#]	t	*	59991	52234	-	-	-	-	-	-
Silica Sand [#]	t	13	129947	59139	-	-	-	-	-	-
Sand (others) [#]	t	3	291979	27301	-	-	-	-	-	-
Shale [#]	t	-	294076	31467	-	-	-	-	-	-
Sulphur ^{***}	t	-	57691	-	-	56670	-	-	48991	-
Minor Minerals [@]		-	-	41725200	-	-	41725200	-	-	41725200

Note : The number of mines excludes minor minerals.

\$ Excluding fuel minerals.

* Associated with Kyanite and Sillimanite.

**Associated with Dolomite and Limestone.

*** Recovered as by-product from oil refinery.

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

Declared as Minor Minerals vide Gazette Notification dated 10.02.2015

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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, Talaja.	50
Hindalco, Mouda, distt. Nagpur.	30 (rolling mill) 14 (conductor rod)
Asbestos Products	
Everest Building Products Ltd, Mulund.	NA
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
Orient Cement, Jalgaon (G).	2000
Reliance Cement, Butibori, Distt. Nagpur (G).	500
Ultratech Cement, Hotgi, Distt. Solapur (G).	1800
Ultra Tech Cement Ltd, Awarpur, Distt. Chandrapur.	3600
Ultra Tech 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 lacs (sq m)
NECO Ceramics, Nagpur.	8.1

(Contd.)

Table - 5 (Contd.)

Industry/plant	Capacity ('000 tpy)
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, Talaja, Distt. Raigad.	0.3 (zirconium salt)
Copper Wire Rods	
HCL, Copper project, Talaja.	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)
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, Talaja.	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)

(Contd.)

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Table - 5 (Contd.)

Industry/plant	Capacity ('000 tpy)
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, Bhoyar, Yavatmal.	28 (SSP)
Shree Pushkar Chems & Fertiliser Ltd, Lote Porshuram, Khed, Ratnagri.	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
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)

(Contd.)

Table - 5 (Concl.)

Industry/plant	Capacity ('000 tpy)
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	
Ispat Metallics India Ltd, Dolvi, Raigad.	2000
Tata Metalics Ltd (Usha Ispat Ltd, Redi), Distt. Sindhudurg.	300
Sona Alloys Pvt Ltd, Satara.	314
Usha Ispat Ltd, Redi.	300
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 Elektrosmetlt 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, 2016/FAI Statistics, 2015-16 and Survey of Cement Industry & Directory, 2016, respectively.