

STATE REVIEWS



# Indian Minerals Yearbook 2021

(Part- I)

60<sup>th</sup> Edition

**STATE REVIEWS  
(Chhattisgarh)**

(ADVANCE RELEASE)

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

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**July, 2023**

## CHHATTISGARH

### Mineral Resources

Chhattisgarh is the sole producer of tin concentrates and moulding sand. It is one of the leading producers of coal, dolomite, bauxite and iron ore. The State accounts for about 36% tin ore, 20% iron ore (haematite), 18% coal, 11% dolomite and 4% each diamond & marble resources of the country. Important mineral occurrences in the State are **bauxite** in Bastar, Bilaspur, Dantewada, Jashpur, Kanker, Kawardha (Kabirdham), Korba, Raigarh & Sarguja districts; **china clay** in Durg & Rajnandgaon districts; **coal** in Korea, Korba, Raigarh & Sarguja districts; **dolomite** in Bastar, Bilaspur, Durg, Janjgir-Champa, Raigarh & Raipur districts; and **iron ore (haematite)** in Bastar district, Bailadila deposit in Dantewada district, Chhote Dongar deposit in Kanker district, Rowghat, Chargaon, Metabodeli & Hahaladdi deposits in Rajnandgaon district and Boria Tibbu deposits in Dalli-Rajhara area, Durg district. Bailadila-Rowghat hill ranges in the State are considered to be one of the biggest iron ore fields in India. **Limestone** occurs in Bastar, Bilaspur, Durg, Janjgir-Champa, Kawardha (Kabirdham), Raigarh, Raipur & Rajnandgaon districts; **quartzite** in Durg, Raipur, Rajnandgaon & Raigarh districts; and **talcs/soapstone/steatite** in Durg & Kanker districts.

Other minerals found in the State are **corundum** in Dantewada district; **diamond** and other gemstones in Raipur, Mahasamund & Dhamtari districts; **fire clay** in Bilaspur, Raigarh & Rajnandgaon districts; **fluorite** in Rajnandgaon district; **garnet & marble** in Bastar district; **emerald & gold** in Raipur district; **granite** in Bastar, Kanker & Raipur districts; **quartz/silica sand** in Durg, Jashpur, Raigarh, Raipur & Rajnandgaon districts; and **tin** in Bastar & Dantewada districts (Table - 1). The reserves/resources of coal are furnished in Table - 2.

### Exploration & Development

The details of exploration activities conducted by GSI, NMDC and State DGM during 2019-20 are furnished in Table - 3.

### Production

Coal, Bauxite, Iron Ore, Tin Conc., Graphite (r.o.m.), Limestone and Moulding Sand are the major minerals produced in Chhattisgarh. The value of minor mineral's production is estimated as ₹ 1,037 crore for the year 2020-21. There was 100 reporting mines in 2020-21 in case of MCDR minerals (Table - 4).

### Mineral-based Industry

The present status of each mineral-based industry is not readily available. However, the principal mineral-based industries in the organised sector in the State are furnished in Table - 5.

**Table – 1 : Reserves/Resources of Minerals as on 1.4.2020: Chhattisgarh**

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						
Bauxite	000' tonnes	19202	1073	3420	23695	14306	4727	46620	37763	75682	771015	18747	968860	9925555
Diamond	carat	-	-	-	-	-	-	-	-	-	1304000	-	1304000	1304000
Fluorite	tonne	-	-	-	-	65889	153132	9288	185485	5573	126088	-	545455	545455
Garnet	tonne	-	-	-	-	-	-	-	-	-	28800	-	28800	28800
Gold														
Ore (Primary)	tonne	-	-	-	-	-	-	-	-	600000	4241033	-	4841033	4841033
Metal (Primary)	tonne	-	-	-	-	-	-	-	-	1.8	3.71	-	5.51	5.51
Graphite	tonne	5282	-	-	5282	-	1330	-	-	-	-	-	1330	6612
Iron Ore (Haematite)	000' tonnes	1289443	99927	204363	1593732	348648	17215	46166	171548	552653	993652	868497	2998379	4592111
Iron Ore (Magnetite)	000' tonnes	29319	-	46557	75876	12263	-	17782	-	-	-	-	30045	105921
Limestone	000' tonnes	1364595	65530	56227	1486351	1658144	903350	298720	1456579	1778018	5630057	-	11724867	13211218
Tin														
Ore	tonne	2075	-	25	2101	1791	2560	94	168457	559914	29062361	-	29795176	29797277
Metal	tonne	963.19	-	10.8	973.99	1122.95	603.94	29.07	813.29	209.43	13130.9	-	15909.58	16883.57

Figures rounded off.  
# Declared as minor mineral vide Gazette notification dated 10.02.2015.

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**Table – 2 : Reserves/Resources of Coal as on 1.4.2021 : Chhattisgarh**

(In million tonnes)

Coalfield	Proved	Indicated	Inferred	Total
<b>Total</b>	<b>31562</b>	<b>40425</b>	<b>1437</b>	<b>73424</b>
Sohagpur	94	10	-	104
Sonhat	365	2304	2	2671
Jhilimili	228	39	-	267
Chirimiri	320.33	11	31	362
Bisrampur	1735	696	5	2436
East Bisrampur	-	165	-	165
Lakhanpur	456	3	-	459
Panchbahini	-	11	-	11
Hasdeo-Arand	2032	3273	223	5529
Sendurgarh	153	126.	-	279
Korba	7055	5763	159	12976
Mand-Raigarh	17978	24859	924	43761
Tatapani-Ramkola	1145	3165	93	4403

*Source: Coal Directory of India, 2020-21.***Table – 3: Details of Exploration Activities in Chhattisgarh, 2020-21**

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq. km)	No. of boreholes	Meterage		
<b>GSI</b>							
<b>Diamond</b>							
Jashpur, Sarguja & Raigarh	Kansabel, Chandarpur & Raigarh	-	-	-	-	124	Reconnaissance survey (G4) was taken up for search of source rocks of diamond around Kansabel, Chandarpur and Ludeg areas. The study area falls in the Chhotanagpur Gneissic Complex (CGC) in the proximity of the Raigarh Metamorphic Belt in Toposheet no 64N/10. Incidences of diamond and indicator minerals were reported from Ib and Mand Rivers by previous studies. The study area comprised of granite gneiss and other granitoids along with quartzite, quartz-mica schist, chlorite schist, metagabbro and metadolerite. A total of 96 stream sediment samples, 11. PCS, 11. PS samples and 04PTS from 1 Trench (3x1x1 m dimension) and 1 Pit (1x1x1 m dimension) were collected. Reconnaissance survey of the area reveal that the area was mainly covered by different varieties of granitoids. At places granites were altered into unakite.

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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		
							During panning of stream sediments samples from 3rd order streams in Hathgara, Pemla and Village Pongo near Kansabel found specks of gold grains.
<b>Base metal</b>							
Mahasamund & Raigarh	Chhirrabhara-Potapara area	1:12500	100	-	-	-	Reconnaissance survey to search for mineralisation of base metal and associated elements in Chhirrabhara-Potapara area, involved large scale mapping. LSM carried out in an area of 100 sq km on 1:12500 scale in Chhirrabhara-Potapara block. Different lithounits observed in the area were granite gneiss of Bengpal Group followed by quartz-chlorite schist, talc-actinolite schist, massive amygdular metabasalt, pyroxenite and amphibolite of Baghmara Formation and metarhyolite of Laghdabri Formation within Sonakhan Group followed by porphyritic granite and quartz vein of Dongargarh Formation followed by quartz vein as post orogenic intrusive within Dongargarh Granite followed by Glauconitic gritty sandstone of Kansapathar Formation and Shale of Chapordih Formation within Chandarpur Group. The available analytical value indicated presence of anomalous molybdenite and Pb mineralisation within smoky quartz vein hosted in Dongargarh Granite and within Dongargarh Granite along the contact zones. Three zones have been identified, i.e, Zone-I (near Village Kotendarha), Zone-II (near Village Bichhiya) and Zone-III (near Village Kapudih) based on the available chemical analysis data. Sample nos. CP/BRS/4 & CP/BRS/117 showed maximum value of molybdenum (950.41 and 1,210 ppm respectively) was from Smoky Quartz vein collected within Dongargarh granite near Village Sagarпали. The data statistics show variation with the minimum and maximum value of 0.85 ppm to 1,210 ppm. Molybdenum value

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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		
Surajpur & Balarampur	Toni-Kadaura block	1:12500	100	-	-	265	<p>ranges from 145–1,210 ppm in 6 samples with highest value observed in CP/BRS/04 (950.41 ppm) and CP/BRS/117 (1,210 ppm) respectively. Mo value ranged 179–632 ppm in 4 samples with highest value observed in CP/BRS/116 (632 ppm).</p> <p>Reconnaissance survey for base metal and associated mineralisation were carried out in Toni-Kadaura block, Surajpur and Balarampur districts of Chhattisgarh as part of regular project during FSP: 2020-21. Geologically, the area is located in western part of Chhotanagpur Gneissic Complex (CGC) and bounded by regional Balarampur–Tatapani Shear Zone (BTSZ) in north. The area is mainly occupied by CGC with older metasedimentary enclaves. Large-scale mapping of 100 sq. km area covered on 1:12500 scale which showed that the dominant lithounits were foliated monzogranite with less deformed patches of syenite. Pitting/trenching of 52.6 cu.m was carried out and 50 pit/trench sample submitted for analysis along with 111 bedrock samples, 22 petrochemical samples and 50 stream sediment samples. Also, 32 petrological samples were collected for petrographic studies. Analytical results of stream sediments samples (from vicinity of oxidised zone) received so far showed anomalous value of tungsten up to 555.42 ppm. Out of 111 BRS samples, data of 67 samples were received so far for base metal and some other elements. The maximum value of Zn is 0.14% and Pb is 0.19% in the study area. The concentration of Ti varied from 591 to 7,343 ppm. Nb with highest value of 209.87 ppm, Zr with highest value of 1,937 ppm, Nd with highest value of 392.55 ppm and V with a value of 509 ppm, were reported from the analytical results received so far.</p>

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## STATE REVIEWS

Table - 3 (contd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>Graphite</b>							
Balrampur	Oranga – Revatipur area	1:4000	3.6	-	-	85	Preliminary exploration (G3) for graphite was carried out in Oranga–Revatipur area. The study area falls in the northern part of Chhattisgarh, in Toposheet no. 64M/5 and belonged to Bilaspur–Raigarh–Surguja (BRS) metamorphic belt. The area mainly comprises of meta-sedimentary sequences of the Older Metamorphic Group and consisted of quartzite, quartz mica schist, graphite mica schist, calc silicate and amphibolite. An area of 3.6 sq. km. was covered by Detailed Mapping on 1:4000 scale followed by geophysical survey of 12 L.km. A total of 59.2 cu. m of trenching were carried out and 55 trench/pit samples were submitted for fixed carbon analysis. A total of 10 petrochemical samples (PCS) and 20 petrological samples (PS) were also submitted. In Borehole CBO-2, graphite mica schist of 9.7 m and 0.57 m thick were intersected. Analytical result of four graphite mica schist from Borehole no. CBO-2 revealed the fixed carbon content that ranged from 4.47% to 10.33%. In Borehole CBO-3, graphite was found associated with graphite mica schist with thickness varying from 1.99 m to 4.78 m and as intercalations within talc± chlorite schist with a thickness of a few cm to 2.03 m. Analytical results received for Borehole CBO- 3 indicated that out of the 26 graphite mica schist samples, 24 of them had fixed carbon content ranging from 2.3% to 10.19%. Two of the samples had values less than 2% due to intercalations. In Borehole CBO-4, graphite mica schist had thickness varying from 0.49m to 6.38m. Analytical results received for 9 graphite mica schist samples in CBO-4 indicated fixed carbon ranging from 2.56% to 9.92%. In Borehole CBO-5, graphite mica schist had thickness varying from 0.68 m to 6.14 m. In Borehole CBO-6, graphite mica schist had thickness varying from 0.2 m to 5.47 m. In Borehole CBO-7 the thickness of the ore body was 1.32 to 6.04 m. Fixed carbon analytical results of CBO-5, 6 & 7 have not been

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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		
<b>Bauxite</b>							received. Available chemical result of 18 trench samples revealed that graphite mica schist contained <1 to 14.62 % fixed carbon content, moisture content of 0.04 to 1.78%, volatile matter of 1.50 to 10.40% and ash content of 81.59 to 91.55%.
Jashpur	Chichili block Kandai block	1:4000	4	13	197.65	-	The G3 preliminary exploration of bauxite was carried out with DM on 1:4000 scale covering an area of 4 sq km around Village Chichili in TS. 64M/12 along with drilling in 200x200 m grid spacing. The Chichili block is a part of Pandrapat plateau which forms a marked topographical feature in the Jashpur district where occurrence of bauxite was reported. Geologically the study area comprised laterite, aluminous laterite and bauxite and Deccan basalts at the base of the scarp surface. The bauxite occurred as irregular lenticular bodies within the aluminous laterite/ laterite. A total of 197.65 m drilling were completed in 13 boreholes at 400 m X 400m spacing. During the drilling programme, two bauxite zones were demarcated in the 13 boreholes at a spacing of 200 X 200 m. The thickness of bauxite zone intersected in boreholes varied from 0.6 m to 2.2 m and bauxite was mainly located between RL from 1,091.62 m to 1,076.389. total of 81 core samples, 10. BRS, 10. PCS, 10. XRD, 05. of reactive silica. 05 nos. OM were collected and submitted for chemical analysis. The chemical analyses of BRS samples received showed $Al_2O_3$ varying from 48.07% to 59.57%, $SiO_2$ from 0.87% to 3.85% and MgO from 0.01% to 0.06%. It also showed good concentration of Ga (61 ppm to 118 ppm) and vanadium (676 ppm to 1256 ppm).

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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		
<b>CMDC Bauxite</b>							CMDC carried out exploration in four mines, i.e, Kudaridih, Narmadapur, Sukjhar and Kamleshwarpur in Surguja district in Kabirdham district respectively. Objective of exploration was to meet the entire raw material demand of the present & proposed industries.
Surguja & Kabirdhan	Kudaridih,	1:1000	3.7	255	2934	-	In Kudaridih mine, exploration comprised geological & geophysical mapping of 3.70 sq. km area on 1:1000 scale & 3.70 sq. km area, respectively. A total of 255 boreholes were drilled to a cumulative depth of 2,934.0 m.
	Narmadapur,	1:1000	1.49	95	1061	-	In Narmadapur/Kunia mine, geophysical mapping along with geological mapping of 1.49 km area on 1:1000 scale was completed. A total of 95 boreholes were drilled to a cumulative depth of 1,061.0 m.
	Sukjhar	1:1000	2.94	109	1283	-	In Sukjhar mine, geophysical mapping along with geological mapping of 2.94 km area on 1:1000 scale was completed. A total of 109 boreholes were drilled to a cumulative depth of 1,283.0 m.
	Kamleshwarpur,	1:1000	1.47	197	2758	-	In Kamleshwarpur mine, geophysical mapping alongwith geological mapping of 1.47 km area on 1:1000 scale was completed and a total of 197 boreholes were drilled to a cumulative depth of 2,758.0 m. During the exploration, a total 3,603 samples were collected. So far in this mine, a total of 384 boreholes were drilled to a cumulative depth of 5,588.0 m. The total reserves/resources in Kamleshwarpur block (147.62 hectare) was estimated at about 4.46 million tonnes under Measured category and 0.70 million tonnes under indicated category.

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**Table –4: Mineral Production in Chhattisgarh, 2018-19 to 2020-21  
(Excluding Atomic Minerals)**

(Value in ₹'000)

Mineral	Unit	2018-19			2019-20			2020-21 (P)		
		No. of mines	Quantity	Value <sup>\$</sup>	No. of mines	Quantity	Value <sup>\$</sup>	No. of mines	Quantity	Value <sup>\$</sup>
<b>All Minerals</b>		<b>105</b>		<b>117345916</b>	<b>102</b>		<b>118108145</b>	<b>100</b>		<b>154776623</b>
Coal	'000t	-	161893	-	-	157745	-	-	158410	-
Bauxite	t	16	1502350	1607698	15	1565307	1609377	14	715296	751480
Iron Ore	'000t	18	34893	96985465	20	34728	99153323	21	36989	134222836
Tin Conc.	kg	6	21212	14627	6	15530	10337	6	16865	9413
Graphite (r.o.m.)	t	-	-	-	1	908	409	1	1701	1765
Limestone	'000t	62	42398	9663426	57	42699	10200663	54	40378	9416969
Moulding Sand	t	3	14805	4145	3	12905	3766	4	11737	3419
Minor Minerals		-	-	9070555	-	-	7130270	-	-	10370741

*Note : The number of mines excludes Fuel and minor minerals.**\$ Excludes the value of Fuel minerals.***Table – 5 : Principal Mineral-based Industries**

Industry/plant	Capacity ('000 tpy)
<b>Aluminium</b>	
Bharat Aluminium Co. Ltd (Unit I & II), Korba. (*Plants remained non-operational during the year).	200* (Alumina) 570 (Aluminium)
<b>Cement</b>	
ACC Ltd, Jamul, Distt Durg.	2400
Ambuja Cements Ltd, Bhatapara, Distt. Raipur.	3500
Bhilai Jaypee Cement Ltd, Bhilai, Distt Durg (G).	2200
Century Cement, Baikunth, Distt Raipur.	2100
Century Textile & Industries Ltd, Tandwa, Tilda	2400
Emami Ltd, Baloda Bazar, Distt Raipur	2500
	3200 (clinker)
Emami Ltd, Risda Baloda Bazar, Distt Raipur	2500
Emami Cement Ltd, Risda Baloda Bazar	3000
J. K. Laxmi, Durg	2.7
J. K. Laxmi Cement Ltd, Malpurikhurd, khasadhe, Dhamdha	2400

(contd)

Table - 5 (contd)

Industry/plant	Capacity ('000 tpy)
Lafarge India Pvt. Ltd, Arasmeta, Distt Janjgir-Champa.	1.8
Lafarge India Pvt. Ltd, Sonadih, Distt Raipur	550
NUVOCO Vistas Co. Ltd Sonadih Cement Plant, Rasedi, Baloda Bazar	1000
Shree Cement, Baloda Bazar, Distt Raipur	3000
Shree Cement Ltd, Khapradih Simga, Balrampur.	3000
UltraTech Cement Ltd, Hirmi, Distt Raipur.	1900
UltraTech Cement Ltd, Rawan, Distt Raipur.	2500
<b>Chemical</b>	
Indu Ragukul Food &	1.5 (Sodium Dichromate)
Chemical Pvt. Ltd,	2.7 (Sodium chromate)
Rajghatta, Kharsia	1.35 (Sodium sulphate)
<b>Electrode</b>	
Calcutta Electrode Pvt. Ltd, Bhanpuri, Raipur	7.40
<b>Fertilizer</b>	
BEC Fertilizers, Sirgitti, Distt Bilaspur	850000

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Table - 5 (contd)

Industry/plant	Capacity ( <sup>'000</sup> tpy)
Dharamsi Morarji Chemical Co. Ltd, Kumhari, Distt. Durg.	183 (SSP & H <sub>2</sub> SO <sub>4</sub> )
Khaitan Chemicals & Fertilizers Ltd, Distt Rajnandgaon.	66 (SSP) 49.5 (H <sub>2</sub> SO <sub>4</sub> )
<b>Iron &amp; Steel</b>	
Bhilai Steel Plant, Bhilai	6334 (Sinters) 4700 (Pig iron) 3925 (crude/liquid steel) 30 (Refractory bricks)
Jindal Steel & Power Ltd, Raigarh	2500 (Sinters) 1320 (Sponge iron) 8600 (Crude/liquid steel)
Jayaswal NECO Industries Ltd, Siltara, Distt Raipur.	650 (Pig iron) 255 (Sponge iron) 1200 (pellets) 1200 (Steel)
Monnet Ispat & Energy Ltd, Naharpalli, Raigarh	962.3 (Sinters) 612.5 (Pig iron) 750 (MS billet) 450 (TMT Bar)
Sarda Energy & Minerals Ltd, (formerly Raipur Alloys & Steel Ltd), IGC, Siltara, Distt Raipur.	600 (Pellets) 360 (Sponge iron) 240 (Finished steel)
Shri Bajrang Power & Ispat Ltd, Borjhara, Distt Raipur.	210 (Sponge iron) 130 (Steel) 1200 (pellets)
Sponge Iron	
A.P.I. Ispat & Power Tech. Pvt. Ltd, Siltara Billets, Raipur	210
Alliance Integrated Metallics Ltd, Bemta, Distt Raipur.	500
Anjani Steel Ltd, Ujalpur, Distt Raigarh	108
Arti Sponge & Power Ltd, Siltara, Distt Raipur	60
Ambika Ispat (I) Pvt Ltd, Tarainal, Distt Raigarh	30
Baldev Alloys Pvt. Ltd, Siltara, Raipur	30
Bhagavati Power & Steel Pvt Ltd, Siltara, Distt Raipur	60
B.S. Sponge Pvt Ltd, Taraimal, Raigarh	90
Crest Steel & Power Pvt. Ltd, IGC Borai, Distt Durg	231
Devi Iron & Power Pvt Ltd, Tandira, Distt Raipur	90
Drolia Electro Steel Pvt Ltd, Siltara, Raipur	66
Euro Pratik Ispat Pvt Ltd, Charoda, Distt Raipur	30
Gravity Treksim Pvt Ltd, Siltara, Distt Raipur	30

(contd)

Table - 5 (contd)

Industry/plant	Capacity ( <sup>'000</sup> tpy)
Godavari Power & Ispat Ltd, Siltara, Distt Raipur	495 2100 (pellets)
Gopal Sponge & Power Pvt Ltd, Siltara, Distt Raipur	30
Gitanjali Ispat & Power Pvt Ltd, Sirgititi, Distt Bilaspur	10
GR Sponge & Power Ltd, Siltara, Distt Raipur	72
Shree Hare Krishna Sponge Iron Ltd, Siltara, Distt Raipur	12000
Jai Shree Balaji Steel Pvt Ltd (HEG Ltd), Borai, Distt Durg	120 (Sponge iron)
Hi-Tech Power & Steel Ltd, Parsada, Distt Raipur	60
Khetan Sponge & Infrastructure Pvt. Ltd, Sarora, Distt Raipur	30
Maa Kali Alloys (Ind.) Pvt Ltd, Pali, Distt Raigarh	60
MSP Steel & Power Ltd, Raigarh	192 900 (pellets)
Monnet Ispat & Energy Ltd, Hasaud, Raipur	300 250 (Semi-finished Steel) 150 (Finished Steel)
Monnet Ispat & Energy Ltd, Naharpalli, Raigarh	500
NR Sponge Pvt. Ltd, Raipur	90
Nalwa Steel & Power Ltd, Taraimal, Raigarh	198
Nakoda Ispat Ltd, Siltara, Raipur	171
Niros Ispat Pvt. Ltd, Hathkhoj, Bhilai	97.5
Nova Iron & Steel Ltd, Dagori, Bilaspur	150
Nutan Ispat & Power Ltd, Jaroda, Raipur	60
PD Industries Pvt. Ltd, Siltara, Raipur	60
Prakash Industries Ltd, Hathenewra, Janjgir-Champa	1000
Raigarh Ispat & Power Ltd, Delari, Distt Raigarh	60
Rameswaram Steel & Power Ltd, Gharghoda, Distt Raigarh	72
Real Ispat and Power Ltd, Borjhara, Raipur.	60 460 (Finished Steel)
Sarda Energy & Minerals Ltd, Mandhar, Raipur	150
Hanumant Alloys (India) Pvt. Ltd, Hardikala, Distt Bilaspur	16.5
Shivalaya Ispat & Power Pvt Ltd, Guma, Distt Raipur	90

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Table - 5 (contd)

Industry/plant	Capacity ( '000 tpy)
Shivshakti Steel Pvt. Ltd, Chakradharpur, Distt Raigarh	97.5
Shree Shyam Ispat (India) Pvt. Ltd, Taraimal, Raigarh	120
Singhal Enterprises Pvt Ltd, Taraimal, Distt Raigarh	253.5
Singhal Energy Pvt. Ltd, Taraimal, Raigarh	60
Sree Nakoda Ispat Ltd, Siltara, Distt Raipur	66
Sunil Sponge Iron Ltd, Chiraipani, Distt Raigarh	60
Sunil Sponge Pvt. Ltd, Munrethi, Dharsiwa	60
Topworth Steel Pvt Ltd, Rasmada, Distt Durg	165
Trimula Sponge Iron Pvt Ltd, Siltara, Raipur	30
Vandana Global Ltd, Siltara, Distt Raipur	216
Vasvani Industries Ltd, Siltara, Distt Raipur	90
Vidhyan Minerals India Pvt. Ltd, Bilaspur	30
<b>Ferro Alloys</b>	
Alok Ferro Alloys Ltd, Urla, Raipur	18
Deepak Ferro Alloys Ltd, Urla, Distt Raipur	5
Indsil Energy & Electro Chemical Ltd, Urla, Distt Raipur	19.2

(contd)

Table - 5 (conclnd)

Industry/plant	Capacity ( '000 tpy)
Hira Ferro alloys Ltd, Urla, Distt Raipur	61.5
Jindal Steel & Power Ltd, Kharsia, Distt Raigarh	36
Sarda Energy & Minerals Ltd, (merged Chhattisgarh Electricity Co. Ltd)	600 (Pellets) 360 (Sponge Iron) 410 (Finished Steel)
Siltara, Distt Raipur	150 (Silico & Ferro-manganese)
Nav-chrome Ltd, Urla, Distt Raipur	50
Orion Ferroalloy Pvt. Ltd Punjipathra, Gharghora	8
V.A. Power & Steel Pvt. Ltd Punjipathra, Gharghoda	8.1(Fe-Si) 14.4(Si-Mn )
Manganese Oxide Vandana Allied Minerals and alloy Bodegaon, Durg	3.6
Refractory SAIL Refractory Unit (formerly Bharat Refractories Ltd), Bhilai, Distt Durg	60
Vishva Vishal Engineering Ltd, Bhilai, Distt Durg	8.2

**(G); Grinding Unit**

*Note: Data, not readily available for fertilizer and cement industries on respective websites, is taken from Indian Fertilizer Scenario, FAI Statistics, and Survey of Cement Industry & Directory, respectively.*

# plant remained unoperational during the year