

Indian Minerals Yearbook 2020

(Part-I)

59th Edition

STATE REVIEWS (Chhattisgarh)

(ADVANCE 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

February, 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 talc/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., Limestone and Moulding Sand are the major minerals produced in Chhattisgarh. The value of minor mineral's production is estimated as ₹ 713 crore for the year 2019-20. There was 94 reporting mines in 2019-20 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.

			Rese	rves					Remaining	resources				Total
Mineral	Unit	Proved	Probá	ible	Total	Feasibility STD211	Pre-feas	sibility	Measured STD331	Indicated STD337	Inferred]	Reconnaiss STD22	ance Total	resources
	-		STD121	STD122	(v)	117/16	STD221	STD222	100010	700010	000010		(q) +	(d'A)
Bauxite	'000 tonnes	12537	218	2313	15068	15341	4570	46389	37264	12892	23483	18747	158687	173755
China Clay [#]	'000 tonnes	107		22	130	1272	765	1412			11422	'	14871	15001
Corundum [#]	tonne	·		'	'	100	310	188	ı	ı	288	'	885	885
Diamond	carat	'	ı	'	'	ı	I	ı	I	ı	1304000	'	1304000	1304000
$Dolomite^{\#}$	'000 tonnes	34465	48130	11623	94218	29294	80865	24512	150795	24412	511610	1950	823439	917657
$Fireclay^{\#}$	'000 tonnes	315	23	94	433	68	27	17	7180	3400	10435	'	21126	21558
Fluorite	tonne	'		'	'	65889	153132	9288	185485	5573	126088	'	545455	545455
Garnet	tonne	'			'	•	ı	'			28800	'	28800	28800
Gold														
Ore (primary)	tonne	'	·		'		ı	'		600000	4241033	'	4841033	4841033
Metal (primary)	tonne	'	I		'	ı	ı	ı	I	1.8	3.71	'	5.51	5.51
Graphite	tonne	6111	ı	ı	6111	1230	·	'	ı	ı	'	'	1230	7341
Granite ^{##} (Dim. stone)	'000 cu m	'		,	'	ı	·		ı		50057	'	50057	50057
Iron ore (Haematite)	'000 tonnes	1067636	78071	241730	1387437	255074	61735	47394	921139	613433	801086	770827	3470687	4858124
Iron ore														
(Magnetite)	'000 tonnes	8087		3096	11183			42	ı	ı		'	42	11225
Limestone	'000 tonnes	1025180	7128	145576	1177885	1071824	751825	427410	1332250	485933	5558135	'	9627377	10805262
$Marble^{\#\#}$	'000 tonnes	1			'		I	ı			83000	'	83000	83000
Ochre	tonne	'		'	'	ı	142	ı	·		ı	'	142	142
Quartzite#	'000 tonnes	605	1524	1567	3696	575	7035	1856			15404	'	24870	28566
Quartz- silica sand#	'000 tonnes	501	479	800	1780	389	282	789	56	26	642	7672	9856	11636
1 alc/soapstone steatite [#]	'000 tonnes	22	ı	8	30	I	ı	I	ı	70	8	I	78	108
Tin														
Ore	tonne	2067	897	1455	4419	1508	2017	72	168457	559914	29063288	'	29795255	29799674
Metal	tonne	44.56	94.02	15.62	154.20	917.02	342.02	16.85	813.29	209.43	13172.34	'	15470.95	15625.15
Figures round # Declared as	ed off. minor mine	sral vide	Gazette nc	tification	dated 10	.02.2015.								

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

11-3

STATE REVIEWS

				(In million tonnes)
Coalfield	Proved	Indicated	Inferred	Total
Total	24984.86	42367.83	2079.14	69431.83
Sohagpur	94.30	10.08	-	104.38
Sonhat	364.83	2303.81	1.89	2670.53
Jhilimili	228.20	38.90	-	267.10
Chirimiri	320.33	10.83	31.00	362.16
Bisrampur	1734.63	695.91	5.15	2435.69
East Bisrampur	_	164.82	-	164.82
Lakhanpur	455.88	3.35	-	459.23
Panchbahini	-	11.00	-	11.00
Hasdeo-Arand	2032.28	3273.42	223.12	5528.82
Sendurgarh	152.89	126.32	_	279.21
Korba	5877.26	5783.70	168.02	11828.98
Mand-Raigarh	12817.84	27038.96	1545.85	41402.65
Tatapani-Ramkola	906.42	2906.73	104.11	3917.26

Table – 2 : Reserves/Resources of Coal as on 1.4.2020 : Chhattisgarh

Source: Coal Directory of India, 2019-20.

	Table – 3: Details of	Exploration A	ctivities in (Chhattisgarh,	2019-20
--	-----------------------	----------------------	----------------	---------------	---------

Agency/	Location	Мар	ping	Dri	lling	G 1'	
District		Scale	Area (sq. km)	No. of boreholes	Meterage	(No.)	Remarks Reserves/Resources estimated
i District	Kida block Mand-Raigarh Coalfield	Scale 1:10000	Area (sq. km) 3.00	No. of boreholes	Meterage 3815.20	(No.) -	Regional exploration (G2) for Coal in this area which were carried out by Mand-Raigarh Coalfield, Raigarh district involved large-scale mapping of 3.00 sq km area on 1:10000 scale and a cumulative drilling of 3,815.20 m in five boreholes. The studied area was mainly represented by Barren Measures while scanty outcrop of Kamthi Formation were observed at the southern part of the block. Barakar Formation was reportedly the main storehouse of economic coal. Twelve regional Barakar coal seams/ zones (Seam I to X, XII and XIII in ascending order) were intersected between the depths of 168.20 and 917.75 m. Thickness of individual coal seam / zone varied from 0.50 to 19.45 m. Seams (IV & I) were the thickest which persistently were intersected in all
							the boreholes. Seam-IV developed in multiple splits whereas Seam-I developed in single split. Grade of

Agency/	Location	Map	ping	Dri	lling	Compliant	Dementer
Mineral/ District		Scale	Area (sq km)	No. of boreholes	Meterage	Sampling (No.)	Remarks Reserves/Resources estimated
							coal seams varied from G-6 to G- 17. Geophysical logging of 1,647.53 m was completed.
·	Jobro East block Mand-Raigarh Coalfield	1:10000	5.0	4	2266.35	-	G2 level exploration for coal in this block was carried out by large-scale mapping of 5.00 sq km area or 1:10000 scale and a total of 2,266.35 m drilling in four boreholes were carried out. Seven regional Barakar coal seams / zones (Seam X to III) were intersected betweer 328.55 m and 633.70 m depth Thickness of individual coal seam A zone varied from 0.65 to 25.80 m Seam VII+VI was the thickness of 25.80 m. Borehole-wise, cumulative coal thickness of all the seams varied from 33.80 to 41.38 m. A total of 1,668.95 m geophysical logging were carried out in this block. Coa seams was observed as inter-banded in nature.
	Karmagarh block, Mand-Raigarh (1:10000 Coalfield	3.5	03	4029.0	-	General exploration (G2) involving large-scale mapping on 1:10000 scale over an area of 3.5 sq km and drilling of 3 boreholes to a cumulative depth of 4,029.0 m were carried out for coal in this area. Eight regional Barakar coal seams/ zones viz X, IX, VIII, VI, VI, V, IV & III in descending order were intersected between 494.50 m and 831.85 m depth. Thickness of individual coal seam/zone ranged from 0.50 to 21.20 m.
	Jampali block, Mand-Raigarh (1:10000 Coalfield	3.0	02	1583.45	-	General exploration (G2) involved large-scale mapping of 3.0 sq km on 1:10,000 scale and 1,583.45 m drilling in 2 boreholes were carried in search of coal in the area. Twelve regional Barakar coal seams / zones (Seam I to X, XII & XIII in ascending order) were observed to have the continuity of already explored blocks. Seven regional Barakar coal seams zones (Seam IV, V, VI, VII, VIII, IX and X in ascending order) were intersected between 252.45 m and 686.62 m depth. Cumulative coal thickness of individual coal seam / zone varied from 0.80 m tc 23.29 m, whereas borehole-wise, cumulative coal thickness of all the

14010 - 3 (00							
Agency/ Mineral/	Location	Map	ping	Dri	lling	Samulina	Domontes
District		Scale	Area (sq km)	No. of boreholes	Meterage	(No.)	Reserves/Resources estimated
	7.						seams varied from 5.32 m and 40.26 m. The thickest, i.e., Seam IV, was continually intersected in both the boreholes.
Copper Lead Surguja	Zinc Oranga- Dhulangi area	-	-	-	-	-	Exploration (G4) was taken up in the study area. The calc-silicate rock and associated amphibolites were observed to have host galena, sphalerite and chalcopyrite- mineralisation in the form of disseminations, stringers and cavity fillings. The galena-sphalerite- chalcopyrite association was better observed in the calc-silicate rocks. Besides base metal, quartz-mica- schist were found to host graphite mineralisation which occur as surface exposure within Indravatipur forest and its sub- surface extension was noticed within the old pits and quarries at different locations of Village Indravatipur.
Surguja and Balrampur	bhelai kudrtola- Dhorpur area	-	-	-	-	-	Reconnaissance survey (G4) was taken up in this area. A well- developed gossan zone having 10 m width and 15-20 m in length was observed along the Gagar Nadi section near SW of Village Dumki. Surface of this gossan zone outcrop was light brown to brownish red due to the leaching of sulphide specks. Across the field area, sulphide mineralisation in the form of disseminated pyrite specks was observed commonly present in calc- silicate and dolomitic limestone.
Bauxite Jashpur	Chundapat block	1:5000	3.5		-	-	Reconnaissance survey (G4) for bauxite in this area was taken up which included detailed mapping of 3.5 sq km on 1:5000 scale. A total of 67 boreholes were planned in 200 m x 200 m grid pattern with approximately 15 m depth and a total of 36 samples of various types were collected during the survey. Analysis results of 10 BRS samples of bauxite revealed that Al ₂ O ₃ ranged from 34.40 % to 57.06%, SiO ₂ 0.26% to 4.64%, Fe ₂ O ₃ 4.94% to 23.81%, TiO ₂ 5.79% to 12.92%, LOI 20.38% to 25.42%, Ga 60 ppm to 95 ppm and V 530 ppm to 1,616

	,						
Agency/ Mineral/	Location	Map	ping	Dri	lling	Sampling	Remarks
District		Scale	Area (sq km)	No. of boreholes	Meterage	(No.)	Reserves/Resources estimated
							ppm. While the average value of Al_2O_3 49.44%, SiO_2 1.93%, Fe_2O_3 14.67%, TiO_2 10.35%, LOI 22.8%, Ga 85.7 ppm and V 1,016.8 ppm were recorded in the area.
	Pandrapat block	1:5000	3.5	-	-	-	Reconnaissance survey (G4) for bauxite was taken up which included detailed mapping of 3.5 sq km on 1:5000 scale. Chemical analysis results of 10 bedrock samples of bauxite revealed that Al ₂ O ₃ ranged from 50.57% to 57.73%, SiO ₂ 0.53% to 2.91%, Fe ₂ O ₃ 3.43% to 12.80%, TiO ₂ 8.08% to 10.77%, LOI 25.3% to 28.6%, Ga 68 ppm to 116 ppm and V 590 ppm to 1,338 ppm with average value of Al ₂ O ₃ 54.703%, SiO ₂ 1.56%, Fe ₂ O ₃ 6.88%, TiO ₂ 9.43%, LOI 26.7%, Ga 94% and V 887 ppm. These analysis results of bedrock samples of bauxite were satisfactory for extraction of alumina in beneficiation plant. XRD studies confirmed that gibbsite was the dominant mineral phase in bauxite followed by boehmite and anatase along with minor amount of haematite, cristobalite & quartz.
Balrampur	Chapi block	1:4000	3.0	79	154.0	95	General exploration (G2) for bauxite in Chapi block was carried out. An investigation involved 154.0 m of drilling along with processing of 35 core samples. Bauxite was found to occur as discontinuous irregular pockets, boulders and lenses of various dimensions within the laterite and aluminous laterite. Mainly three varieties of bauxite presence were noticed – massive, pisolitic and boulder in the study area. Bauxite occurred at two elevation ranges. Bulk density of bauxite was calculated to be 1.47 tonnes/cu. m.
Surguja	Murtadand block	1:4000	2.5	-	-	10	General exploration (G2) for bauxite has been carried out in this area. An area of 2.5 sq km was covered by detailed mapping on 1:4000 scale. Bauxite occurred as discontinuous pockets, boulders and lenses of various dimensions within the laterite and aluminous laterite. Sampled ore zone was represented

Agency/ Mineral/	Location	Map	ping	Dri	illing	Sampling	Remarks
District		Scale	Area (sq km)	No. of boreholes	Meterage	(No.)	Reserves/Resources estimated
							by bauxite, aluminous laterite and laterite with pisolites or pockets of bauxite. Ten surface samples of bauxite yielded up to 57.92% of Al ₂ O ₃ content with an average of 52.54%. Average SiO ₂ , Fe ₂ O ₃ , TiO ₂ , LOI, Ga and V content analysed in surface samples were 1.86%, 7.96%, 11.23%, 25.01%, 97.3 ppm and 777.2 ppm, respectively. The bulk density of bauxite and aluminous laterite was determined as 1.481 tonnes/cu. m and 1.67 tonnes/cu. m, respectively.
Bilaspur	Baidkhodra block	1:12500	-	-	-	-	Reconnaissance survey (G4) for bauxite at and around Baidkhodra was carried out. The area was mapped on 1:12500 scale. Bauxite and bauxitic laterite was demarcated for the first time within overall laterite of the existing geological map. Chemical analysis (data received so far) showed values of Al ₂ O ₃ ranging from 21.26 to 54.04 wt%, indicating 'cement' grade mostly. XRD study showed 'Gibbsite' and 'Boehmite' peak (65% to 95%). High values of REE, Ga, V were reported for the first time besides bauxite values. Chemical analysis showed high values of V (514-3,008 ppm; UCC 97 ppm) and Ga (33- 127 ppm; UCC 17.5 ppm).
Limestone Durg	Mohrenga- Kandai block	1:4000	5.6	35	2065.55	1480	Preliminary exploration for lime- stone was carried out by drilling bore- holes up to a depth detailed mapping & varied from 37.3 m to 91.55 m on 400 m X 400 m grid pattern. The limestone was observed as stro- matolitic, hard, compact and mas- sive in nature and pink to dark grey in color. Partial analytical results received of 660 core samples showed CaO at maximum of 44.39%. Limestone zone of a strike length of 3,781 m and width of 736 m was delineated.
	Dani Kokri- block	1:4000	1.69	02	100	-	During general exploration (G2) for limestone, an area of 1.69 sq km out of 4.48 sq km was covered by detailed mapping. The chemical analysis results of core samples

<u>1able - 3 (co</u>	ontd)						
Agency/	Location	Map	ping	Dri	lling	G 1'	D I
District		Scale	Area (sq km)	No. of boreholes	Meterage	(No.)	Remarks Reserves/Resources estimated
							showed CaO, MgO, SiO ₂ and P ₂ O ₅ . The analysis showed CaO ranging from 33.94% to 49.07% with an average CaO 42.9%, MgO ranging from 0.93% to 3.82% with an average MgO 1.72%, SiO ₂ ranging from 8.83% to 23.08% with an average SiO ₂ 14.58% and P ₂ O ₅ ranging from minimum 0.02% to maximum 0.05% with an average P ₂ O ₅ 0.03%.
Raigarh	Amlipali block	1:4000	4.0	25	-	-	General exploration (G2) for limestone was carried out with an objective to assess the limestone resources. Boreholes were drilled on grid pattern at an interval of 400 m with average depth of 50 m. Analytical results of core samples from limestone zones yielded CaO from 34.05% to 48.74%.
Gold Mahasamund	Chanat- Jogidadar area	1:12500	100.0		-	-	During reconnaissance survey (G4) for gold and associated sulphide mineralisation in study areas, an area of 100.0 sq km was mapped on 1:12500 scale along with 50 cu. m pitting/trenching during the survey. From first order river, 8 stream sediments samples were collected, panned and a total of 10 to 12 gold grains were recovered. In the studied sample, native gold was associated with arsenopyrite, molybdenite, chalcopyrite and pyrite. Au analysis of two samples from sheared mineralised quartz vein showed maximum value of 0.2-0.4 g/t. A two metre zone was demarcated by trench, wherein value of Au ranged from 0.07 g/t to 0.2 g/t.
Baloda Bazar Mahasamund	& Bhogdih- Junadih	1:12500	50.0	-	-	-	Reconnaissance survey (G4) for gold and associated sulphide mineralisation was taken up involving large-scale mapping of 50.0 sq km on 1:12500 scale. Manifestations of disseminated sulphides like chalcopyrite, pyrite and galena were noticed in quartz veins occurring at the contacts of metarhyolite and metabasalt as well as metarhyolite and gabbro near Bilari, Kesharpur and Rangmatiya villages. Silt size gold grains were

Table - 3 (co	ontd)						
Agency/	Location	Map	ping	Dri	illing	Sompling	Pamarka
District		Scale	Area (sq km)	No. of boreholes	Meterage	(No.)	Reserves/Resources estimated
							recovered from sediments collected from 1 st and 2 nd order streams in the north-eastern part of the area around Village Rangmatiya. An oxidised quartz vein extending for about 40 m occurring at the contact of rhyolite and metabasalt was delineated and sample collected from this quartz vein was analysed and yielded 0.6 g/t gold.
Cr, Ni & ass PGE minera Mahasamund	ociated lisation Dongripalli- block	-	-	-	-	66	Preliminary exploration (G4) was carried out for Cr, Ni and associated PGE mineralisation in this area. Two very small patches of gabbros (nearly 2 m length and 1 m width) rich with sulphides were observed in the north-eastern part of the study area. A total of 66 various types of samples were collected during the course of fieldwork. Chemical analysis showed value of Cr ranging from 132 to 2,575 ppm, Ni 95 to 613 ppm, Cu 9 to 632 ppm and Co 45 to 82 ppm. The Pt, Pd and Ru values ranged from 6 to 18 ppb, 6 to 35 ppb and 8 to 18 ppb, respectively. No specific zone of mineralisation was demarcated.
CMDC Bauxite Surguja &							
Kabirdhan	Kudaridih, Narmadapur, Kamleshwarpur, Sukjhar Mines	1:1000	3.7	-	-	-	CMDC carried out exploration in four mines, i.e, Kudaridih, Narmadapur, Sukjhar and Kamleshwarpur in Surguja district in Kabirdham district respectively. Objective of exploration were to meet the entire raw material demand of the present & proposed industries. 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. In Narmadapur/Kunia mine, geophysical mapping of 1.49 km area on 1:1000 scale were completed. A

Agency/	Location	Maj	oping	Dri	lling	a ti	
District		Scale	Area (sq km)	No. of boreholes	Meterage	Sampling (No.)	Remarks Reserves/Resources estimated
							total of 95 boreholes were drilled to a cumulative depth of 1,061.0 m. In Sukjhar mine, geophysical mapping along with geological mapping of 2.94 km area on 1:1000 scale were completed. A total of 109 boreholes were drilled to a cumulative depth of 1,283.0 m. In Kamleshwarpur mine, geophysical mapping along with geological mapping of 1.47 km area on 1:1000 scale were completed and a total of 197 boreholes were drilled to a cumulative depth of 2,758.0 m. During the exploration a total of 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. 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.

Table –4: Mineral Production in Chhattisgarh, 2017-18 to 2019-20 (Excluding Atomic Minerals)

(Value in ₹'000)

	T T • .		2017-	18		2018-	-19		2019	-20 (P)
Mineral	Unit	No. of mines	Quantit	y Value ^s	No. o mines	of Quantity s	y Value ^s	No mi	. of Quant nes	tity Value ^s
All Minerals		112		101070093	105		117345916	94		118381892
Coal	'000t	-	142546	-	-	161893	-	-	157745	-
Bauxite	t	13	2558701	2199036	16	1502350	1607698	15	1566108	1551681
Iron Ore	'000t	18	34418	81546969	18	34893	96985465	18	34724	100086047
Tin Conc.	kg	6	16758	11347	6	21212	14627	6	15546	9562
Graphite (r.o.m	.) t	-	-	-	-	-	-	1	-	-
Limestone	'000t	71	36391	8652173	62	42398	9663426	50	42699	9600649
Moulding Sand	t	4	7100	1804	3	14805	4145	3	12805	3683
Minor Minerals		-	-	8658764	-	-	9070555	-	-	7130270

Note : The number of mines excludes Fuel and minor minerals. \$ Excludes the value of Fuel minerals.

Table - 3 (concld)

Table - 5 : Principal Mineral-based Industries Table - 5 (contd)

		- Industry
Industry/plant	Capacity ('000 tpy)	Dharamsi
Aluminium		Kumhari
Bharat Aluminium Co. Ltd (Unit I & Korba.	II), 200 [#] (Alumina 570 (Aluminium	a) Khaitan a) Distt Raj
("Plants remained non-operational	during the year).	Iron &
Cement		Bhilai St
ACC Ltd, Jamul, Distt Durg.	240	0
Ambuja Cements Ltd, Bhatapara, Distt. Raipur.	350	0 Jindal St
Bhilai Jaypee Cement Ltd,22Bhilai, Distt Durg (G).		0
Century Cement, Baikunth, Distt Raip	our. 210	0
Century Textile & Industires Ltd, Tandwa, Tilda	240	0 Jayaswal Siltara, D
Emami Ltd, Baloda Bazar, Distt Raipur 2500 3200 (clinkar)		
Emami Ltd, Risda Baloda Bazar, Distt	Raipur 2500	Monnet I Naharpal
Emami Cement Ltd, Risda Baloda Ba	zar 3000	1
J. K. Laxmi, Durg	2.7	
J. K. Laxmi Cement Ltd, Malpurikhur khasadhe, Dhamdha	d, 2400	Sarda En Raipur A Siltara, D
Lafarge India Pvt. Ltd, Arasmeta, Distt Janjgir-Champa.	1.8	Shri Bajı Borjhara,
Lafarge India Pvt. Ltd, Sonadih, Distt	Raipur 550	
NUVOCO Vistas Co. Ltd Sonadih Cement Plant, Pasedi Baloda Bazar	1000	A.P.I. Isp Siltara B
Shree Cement Baloda Bazar Distt Ra	inur 3000	Alliance
Shree Cement I td Khapradih Simga	3000 3000	Bemta, I
Balrampur.	5000	Anjani S
UltraTech Cement I to Hirmi Dictt Pa	inur 1000	Arti Spor
UltraTech Cement Ltd, Hillin, Distt Ra	2500	Ambika
Olitareen eenent Lu, Kawan, Dist Ka	aipui. 2500	Baldev A
Chemical Indu Ragukul Food &	1.5 (Sodium Dicromate	Bhagavat Siltara, E
Chemical Pvt. Ltd.	2.7 (Sodium chromate	B.S. Spo
Rajghatta, Kharsia	1.35 (Sodium sulphate	Crest Ste) IGC Bora
Calcutta Electrode Pvt. Ltd,	7.4	0 Devi Iron
Bhanpuri, Raipur		Drolia El
Fertilizer		Euro Pra
BEC Fertilizers, Sirgitti, Distt Bilaspur	r 85000	0 Gravity
	(contd)

Industry/plant	Capacity ('000 tpy)
Dharamsi Morarji Chemical Co. Ltd, Kumhari, Distt. Durg.	183 (SSP & H ₂ SO ₄)
Khaitan Chemicals & Fertilizers Ltd, Distt Rajnandgaon.	66 (SSP) 49.5 (H ₂ SO ₄)
Iron & Steel	
Bhilai Steel Plant, Bhilai 39 3	6334 (Sinters) 4700 (Pig iron) 25 (crude/liquid steel) 0 (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, Dis	tt Raipur 90
Drolia Electro Steel Pvt Ltd, Siltara, Raij	pur 66
Euro Pratik Ispat Pvt Ltd, Charoda, Dist	t Raipur 30
Gravity Treksim Pvt Ltd, Siltara, Distt R	aipur 30

(contd)

STATE	REV	IEWS

Table - 5 (contd)

Table - 5 (contd)

Industry/plant	Capacity ('000 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 Raig	arh 60
MSP Steel & Power Ltd, Raigarh	192 900 (pellets)
Monnet Ispat & Energy Ltd, Hasaud, Raipur 250 (Semi 150	300 -finished Steel) (Finished Steel)
Monnet Ispat & Energy Ltd, Naharpalli, Raigan	h 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 Raigan	⁻ h 60
Rameswaram Steel & Power Ltd, Gharghoda, Distt Raigarh	72
Real Ispat and Power Ltd, Borjhara, Raipur. 460	60 (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,	90
Distt Raipur	(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
Ferro Alloys 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
Hira Ferro alloys Ltd, Urla, Distt Raipur	61.5
Jindal Steel & Power Ltd, Kharsia, Distt Raigarh	36
Sarda Energy &Minerals Ltd, (merged ChhattisgarhElectricity Co. Ltd)Siltara, Distt Raipur150 (Silico & Ferraria)	600(Pellets) O(Sponge Iron) ished Steel) erro- maganese
Nav-chrome Ltd, Urla, Distt Raipur	50
Orion Ferroalloy Pvt. Ltd Punjipathra, Gharghora	8
V. A.Power & Steel Pvt. Ltd Punjipathra, Gharghoda Manganese Oxide	8.1(Fe-Si) 14.4(Si-Mn)
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 fertilize industries on respective websites, is taken from In	r and cement dian Fertilizer