

## MCDR INSPECTION REPORT 2022-23

### **1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	Hahaladdi Iron Ore Mines
2	Date of inspection	07.06.2023
3	Name of inspecting officer	Prem Prakash, Regional Controller of Mines,
4	Name of the official Accompanying Inspection	1. D. K.Mahanta, G.M.(Geology & Mining) 2. D. N. Mohanta, Mines Manager 3. R. K. Gupta, Manager(Geology) 4. B.R.Banjare, Mining Engineer.
5	Last date of Inspection & Officer	Dt.14.07.2022 & Shri D. Upadhyay, Sr. ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest : 75.00 Non-Forest : 0.00 Total : 75.00
7	Mine Code	30CHG08007
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4393/2011
9	Name of the lessee, Address, phone, email and fax number	M/s. Shri Bajrang Power and Ispat Ltd Village: Borjhara, Urla-Guma Road Urla Growth Center,Raipur- 493221 Chhattisgarh. Phone: 0771-4288019/29/39 Fax: 0771-4288123/2323601 Email: <a href="mailto:mining@goelgroup.co.in">mining@goelgroup.co.in</a>
10	Village	Hahaladdi & Chahchad
11	Taluka / Mandal	Forest Compartment: No 641(P) & 642(P) Forest Division: East Bhanupratappur Taluka: Durgukondal
12	District	Uttar Bastar Kanker
13	PIN Code	494669
14	State	Chhattisgarh
15	Post office	Durgukondal
16	Nearest police station	Durgukondal
17	Nearest Railway station	Kewati
18	Date of Grant of Mining Lease	10/11/2014
19	Date of Execution	21/11/2014
20	Weekly day of Rest	Friday
21	Date of opening of Mine	09/02/2015
22	Date of first Renewal, if applicable and its period & expiry	Not Applicable
23	Date of second Renewal, if applicable and its period & expiry	Not Applicable
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable

25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Shravan Kumar Goyal, Director Village -Borjhara, Urla-Guma Road, Urla Growth Center, Raipur (Chhattisgarh) – 492221 Email: skgoyal@goelgroup.co.in Phone: 0771 – 4288019/ 29/ 39 Fax: 0771 – 4288123/ 2323601 Date of Appointment: 15/11/2014
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri D. K. Mahanta , GM (Geology & Mining) Village -Borjhara, Urla-Guma Road, Urla Growth Center, Raipur (Chhattisgarh) – 492 221 Phone: 0771 – 4288019/ 29/ 39 Mobile No. 9826422310 Email: dk.mahanta@goelgroup.co.in Fax: 0771 – 4288123/ 2323601 Date of Appointment: 17/11/2020
27	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri D. N. Mohanta Kothari Vatshalya, Bhanupratappur, Kanker, Chhattisgarh Email: debenranath1966@gmail.com Mobile No. – 6264354643 Phone: 0771 – 4288019/ 29/ 39 Fax: 0771 – 4288123/ 2323601 Date of Appointment: 03/04/2015
28	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Bhojram Banjare, Qualification: B.E. (Mining) Total Experience: More than 15 Years Near Police Station, Durgukondal, Kanker (Chhattisgarh) - 494669 Email: banjare_br@rediffmail.com Phone: 0771 – 4288019/ 29/ 39 Fax: 0771 – 4288123/ 2323601 Date of Appointment: 25/03/2015
29	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes, Name of Geologist:- Shri R. K.Gupta, Qualification: M.Sc (Geology) Total Experience: More than 12 Years Date of Appointment: 25/03/2015 Name of Mining Engineer:- Shri Bhojram Banjare, Qualification: B.E. (Mining) Total Experience: More than 14 Years Date of Appointment: 25/03/2015
30	Date of Approval of Mining Plan/Modified/ Review of Mining Plan with five-year period and specific condition, if any.	<b>1<sup>st</sup> Mining Plan</b> approved on dated 11/07/2008 vide letter no. KNK/FE/MPLN-995/NGP Nagpur Proposal Period: 2014-15 to 2018-19 <b>Modified Mining Plan</b> approved on dated 30/03/2016 vide letter no. KNK/FE/MPLN-995/NGP/2015 Nagpur Proposal Period: 2014-15 to 2018-19 No specific condition in approval letter.
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	<b>Review of Mining Plan</b> approved on Dated – 28/02/2019 vide letter no. KNK/Fe/ MP/1191/2018/ RAIPUR/1460, Proposal Period: 2019-20 to 2023-24 <b>Modification in the Approved Review of Mining Plan</b> approved on Dated – 21/04/2021 vide letter no. KNK/Fe/ MP-1270/2020-RAIPUR Proposal Period: 2021-22 to 2023-24 No specific condition in approval letter.

32	Mineral(s) granted in lease and approved for mining	Iron Ore
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
35	Captive/Non Captive	Captive
36	Present EC Status	MoEF & EC Govt. of India, vide letter No. 248/EC/Kanker/795 Naya Raipur Atal Nagar, dated 18.05.2020 for production of 1.2 MTPA { 1.0 MTPA(Above Threshold Value,+45%Fe) and 0.2 MTPA (Below Threshold Value,-45%Fe which is part of overburden)}
37	Status of Financial Assurance	BG No. 0853619BG0000028 , Date- 20/02/2019 Amount – 5032000/- BG No. 3074IGPER000519, Date-27/02/2019 Amount - 9800000/- BG No. 0853621BG0000040 , Date- 09/04/2021 Amount – 1626000/- BG No. 0853621BG0000161 , Date- 30/12/2021 Amount 10972000/- Total =2,74,30,000/- & Valid up to 31.03.2024

### **1.0 Exploration:**

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
1a	Backlog of previous year proposals	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2022-23	Nil	Entire potential mineralised area has been explored under G-1
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Not Applicable	G1-41.61 Ha. (Mineralised) Non-Mineralised-33.39 Ha.
1e	Balance reserves as on 01.04.2023	As per MRMP dated 21.04.2021:-  Under (111): 4.096Million Tonnes Under (221): 0.986Million Tonnes Total: 5.082 Million Tonne	Depletion of Reserve during 2021-22 & 2022-23 is 1.663 Million Tonne & Balance Reserve is: Under (111): 2.433 Million tonnes Under (221): 0.986 Million tonnes Total: 3.419 Million Tonne	As per approved Modification of Approved Review of Mining Plan and AR submitted for the year 2022-23
1f	General remarks of inspecting	No exploration has been proposed during the financial year		

officer on geology, exploration etc.	2022-23. The entire potential mineralised area has been explored under G-1 level of exploration.
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## 2.0 Development:

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
2a	Location of development w.r.t. lease area	Development as shown in production and development plan; 1- In Northern Part- N 2233127 to N 2233500 E 489865 to E 490116 2- in Southern Part- N 2232521 to N2232919 E 489731 to E489888	Excavation carried out as per proposal	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Separate benches proposed in OB & mineral.	Separate benches were maintained in OB & mineral.	OB/Waste-0 8 Nos. Ore - 08 Nos.
2c	Stripping ratio or ore to OB ratio (T:M <sup>3</sup> )	1:0.38	1:0.39	Tonne:Cum
2d	Quantity of topsoil generation in m <sup>3</sup>	No Proposal	Nil	
2e	Quantity of overburden generation in m <sup>3</sup>	375966 m <sup>3</sup>	266727 m <sup>3</sup>	Less generation due to less production
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The developments have been carried out as per the proposal.		

## 3.0 Exploitation:

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	One (01)	One (01)	
3b	Quantity of ROM mineral production proposed	1000000 Tonne	673345.39Tonne	Less production to cater the needs of captive plant & low business environment
3c	Recovery of salable/usable mineral from ROM production	100 %	100 %	

3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Not applicable	
3j	Provision of drilling & blasting in mineral benches	Drilling and Blasting proposed in mineral benches	Drilling and blasting was carried out in mineral benches as proposed.	Spacing: 2.5 mtrs. Burden: 2.0 mtrs. Depth: 6.0 mtrs. Dia. : 100 mm
3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 6 meter in in overburden and mineral	Bench height and width have been maintained as per proposal	
3m	Total area covered under excavation/pits	33.560 Ha. up to the end of plan period 2023-24	17.650 Ha. Up to end of F.Y. 2022-23	As per AR 2022-23 submitted
3n	Ore to OB ratio for the pit/mine during the year	1:0.38	1:0.39	Tonne:Cum
3o	Total area put in use under different heads at the end of year	Total put to use- 54.86 Ha. up to 2023-24	About 35.00 ha Up to end of F.Y. 2022-23	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	2018-19: 600000.00 2019-20: 800000.00 2020-21:1000000.00 2021-22:1000000.00 2022-23: 1000000.00	2018-19: 593100.00 2019-20: 599996.87 2020-21: 932829.97 2021-22: 990405.68 2022-23: 673345.39	As per AR submitted
3q	General remarks of inspecting officer on method of mining etc.	Open cast working being carried out by deployment of HEMM with the help of drilling & blasting. Less production reportedly due to less feed requirement in the captive steel plant.		

#### **4.0 Solid Waste Management-Dumping:**

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil,	Separate dumping of	Separate dumping for	

	OB & mineral reject (Rule 36, 37)	Waste /OB proposed	Waste /OB carried out	
4b	Location of topsoil, OB & mineral reject dumps	Location of OB dump: N-2232400 to N-2232600, E-489900 to E-490100	Not carried out as per proposal	Violation is pointed out under Rule 11 (1) of MCDR, 2017.
4c	Number of dumps within lease area and outside lease area	02	01	Within lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit	Beyond UPL	
4e	Number of active & alive dumps	02	01	
4f	Number of dead dumps	-	Nil	
4g	Number of dumps stabilised	-	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Retaining wall and garland drain made around the waste dump	and Garland drain have been made around waste dump.
4i	Length of Retaining wall or garland drain all along dump	No proposal	40 mtr. retaining wall reported constructed during 2022-23	
4j	Number of settling ponds	No proposal	5 nos. of settling tanks already constructed in past	
4k	Specific comments of inspecting officer	Waste dumping are observed not carried out as per proposal in MRMP, violation issued in this regards.		

### **5.0 Solid Waste Management-Backfilling:**

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	No area has exhausted fully for carrying out backfilling
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No proposal	Not applicable	
5d	Total area fully reclaimed &	No proposal	Not applicable	

	rehabilitated		
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mineral has not been exhausted fully & thus no proposal was given for backfilling.	

**6.0 Progressive Mine Closure Plan:**

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	To be submitted before 01st July every year	PMCP report received in time.	Annual Report submitted on 26.06.2023
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal No proposal No proposal No proposal No proposal	Nil Nil Nil Nil Nil	No area is mined out fully at present
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No proposal No proposal No proposal No proposal No proposal	Nil Nil Nil Nil Nil	No area has got matured for reclamation and rehabilitation purpose
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1000 Nos No proposal By plantation	2300 Nos 0.80 Hect. By plantation	Plantation carried out over the waste dump
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring of air, water & noise proposed	Environmental monitoring of air, water & noise was carried out as per the proposal	All values of environment parameters were within permissible limits
6f	General remarks of inspecting officer on PMCP compliance & progressive	Annual PMCP report has been submitted. Plantation has been carried out over the dead end of the waste dump.		

## **7.0 Mineral Conservation:**

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed for crushing and screening of blasted ROM	Mechanized crushing and screening has been carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	Mechanised Crushing and Screening.
7c	Different grade of mineral sorted out at mines	Yes	Yes	
7d	Any beneficiation process at mines	No proposal	No beneficiation being done in mines except crushing/screening	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The blasted ROM have been crushed/screened to different sizes as per requirement of the captive steel plant.		

## **8.0 Environment:**

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumps for overburden, waste rock, rejects is proposed	Separate dumps are maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	Plantation Proposed : WML: 1000 saplings in 2022-23	Within lease area- 2300 nos. saplings	As per the AR 2022-23
8g	Survival rate	Not specified	75%	
8h	Water sprinkling on roads to control airborne dust	Proposal of water sprinkling on roads through water tanker	Water sprinkling being carried out on haul roads to suppress the dust generated	



8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in & around the mine area was good.
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### **9.0 Compliance of Rule 45 (2022-23)**

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	MR being regularly submitted AR submitted up to 2022-23	

S. N.	Item	Details given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri D. N. Mohanta Geologist: Shri Rajkumar Gupta, Mining Engineer: Shri B. R. Banjare	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	35.39 Ha	About 35 Ha.	
9d	Scrutiny of Annual return on Afforestation	Within lease area: 2300 @ 75% survival rate	Within lease area: 2300 @ 75% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock:- ROM:77744.49 Tonne Lumps:7045.55 Tonne Fines:118486.97 Tonne	Closing Stock:- ROM:77744.49 Tonne Lumps:7045.55 Tonne Fines:118486.97 Tonne	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price & cost of production- Rs 945.57/Ton	Captive consumption	
9i	Scrutiny of Annual return on fixed assets	Rs. 224124984.00 including land, building and machinery	Appears to be correct	
9k	Scrutiny of Annual return on mining machineries	Back hoe ( 1.2 to 1.67 m3)- 11 Nos, Dumper (25 T)- 29 Nos., Drill Machine (100 mm dia)- 02 Nos., Dozer (160 Hp)-02 Nos., Wheel Loader (2 m3)-7 Nos., Crusher-03 Nos., Screening Plant-03 Nos.	Observed deployed	

10- Details of violations observed during current inspection:-Violation of Rule 11(1) of MCDR 2017 is pointed out after current inspection.

Date: - 24.08.2023

प्रेम प्रकाश / Prem Prakash  
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines  
भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur