

MCDR INSPECTION REPORT 2022-23

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Shri Bajrang Iron Ore Mines, Hahaladdi (75.00 Ha)
2	Date of inspection	28.10.2023
3	Name of inspecting officer	Shri D.Upadhyay, DCOM Indian Bureau of Mines, Raipur
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.07.06.2023 & Shri Prem Prakash, RCOM, IBM, Raipur
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: mining@goelgroup.co.in
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	Fri day
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) – 492 221 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.	1st Mining Plan approved on dated 11/07/2008 vide letter no. KNK/FE/MPLN-995/NGP Nagpur Proposal Period: 2014-15 to 2018-19 Modified Mining Plan 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.	Review of Mining Plan approved on Dated – 28/02/2019 vide letter no. KNK/Fe/ MP/1191/2018/ RAIPUR/1460, Proposal Period: 2019-20 to 2023-24 Modification in the Approved Review of Mining Plan 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	Not proposed	Nil	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	Nil	Entire potential mineralised area has been explored under G-1
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	Nil	Entire potential mineralised area has been explored under G-1
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Nil	Entire potential mineralised area has been explored under G-1
1e	Balance reserves as on 01.04.2023	Balance Reserve as on 01.04.2023 is: Under (111): 2.433 Million tonnes	Balance Reserve as on 01.04.2023 is: Under (111): 2.433 Million tonnes	Balance Reserve as on 01.04.2023 is: Under (111): 2.433 Million tonnes
1f	General remarks of inspecting officer on geology, exploration etc.	Entire potential mineralised area has been explored under G-1		

2.0 Development:

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
2a	Location of development w.r.t. lease area	N 2233130 to 2233500 E 489865 to 490116 N 2232520 to 2232920 E 489731 to 489888	N 2233090 to 2233500 E 489865 to 490109 N 2232540 to 2232920 E 489731 to 489888	Development is carried out within approved proposal.
2b	Separate benches in topsoil, overburden and mineral	Separate benches were proposed for	Ore & OB benches	Separate benches in OB & Ore are

	(Rule 13)	Ore & OB OB= 8 bench Ore =8 bench	are made separately OB= 8 bench Ore =8 bench	maintained as per proposal.
2c	Stripping ratio or ore to OB ratio (T:m ³)	1:0.38	1:0.35	Less Generation of OB due to less production
2d	Quantity of topsoil generation in m ³	Not Proposed	Nil	Nil
2e	Quantity of overburden generation in m ³	375966 m ³	266727 m ³	Less Generation of OB due to less production
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Developmental is carried out within approved proposal.		

3.0 Exploitation:

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	One	One	One pits
3b	Quantity of ROM mineral production proposed	1000000 Tonne	673345.39Tonne	ROM production is consumed to its captive plant.
3c	Recovery of salable/usable mineral from ROM production	1000000 Tonne	673345.39Tonne	Total ROM is usable to its Plant.
3d	Quantity of mineral reject generation	Not proposed.	NIL	NIL
3e	Grade of mineral reject generation and threshold value declared	Not proposed.	NIL	NIL
3f	Quantity of sub-grade mineral generation	Not proposed.	NIL	NIL
3g	Grade of sub-grade mineral generation	Not proposed.	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	NIL	NIL
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting is proposed,	Drilling and blasting is carried out as per proposal.	Drilling and blasting is carried out as per proposal.
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Shovel and dumper combination	Excavator, Loader and Dumper are equipped to winning out the mineral.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Bench height is suitably matched with the excavator.
3m	Total area covered under excavation/pits	33.560 Ha. up to the end of plan period	17.650 Ha. As on 31/03/2023	17.650 Ha. As on 31/03/2023
3n	Ore to OB ratio for the pit/mine during the year	1:0.38	1:0.35	Less Generation of OB due to less production
3o	Total area put in use under different heads at the end of year	Area after plan period: Area under Mining – 33.56 Ha Waste Dump Site – 15.90 Ha Mineral Storage – 3.10 Ha Infrastructure, Workshop, Administrative building etc – 0.29 Ha Road – 2.70 Ha Mineral Separation Plants – 0.51 Ha.	As on 31/03/2023 Area under Mining – 17.65 Ha Waste Dump Site – 11.14 Ha Mineral Storage – 3.10 Ha Infrastructure, Workshop, Administrative building etc – 0.29 Ha Road – 2.70 Ha Mineral Separation Plants – 0.51 Ha.	Total area put in use under different heads at the end of year are as per proposal
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	2018-19: 600000 MT 2019-20: 800000 MT 2020-21:1000000 MT 2021-22:1000000 MT 2022-23: 1000000 MT	2018-19: 593100.00 MT 2019-20: 599996.87 MT 2020-21: 932829.97 MT 2021-22: 990405.68 MT 2022-23: 673345.39 MT	ROM production is consumed to its captive plant.
3q	General remarks of inspecting officer on method of mining etc.	The ROM production has been carried out from single pit as per proposal.		

4.0 Solid Waste Management-Dumping:

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Separate dumping for Waste & OB is proposed. No Top soil & mineral reject generation is proposed.	Separate dumping for Waste & OB has been done in the designated location. No Top soil & mineral reject generated..	Separate dumping for Waste & OB has been done in the designated location
4b	Location of topsoil, OB & mineral reject dumps	OB Dump Proposed Location: N2232290 to 2232520, E 489640 to 489948 No mineral reject dump proposed.	OB Dump Actual Location: N2232290 to 2232520, E 489640 to 489948 No mineral reject dump generated.	Separate dumping for Waste & OB has been done in the designated location
4c	Number of dumps within lease area and outside lease area	01 no of dumps within the lease area	01 Nos of Dumps within Lease area	01 Nos of Dumps within Lease area
4d	Location of dumps w.r.t.	Beyond ultimate pit	Beyond ultimate pit	Beyond ultimate

	ultimate pit limit (Rule 14)	limit.	limit.	pit limit.
4e	Number of active & alive dumps	01 No	01 No	01 No
4f	Number of dead dumps	Not proposed.	Nil	Nil
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes,	Yes	Retaining wall and Garland drain have been made around waste dump.
4i	Length of Retaining wall or garland drain all along dump	Maintenance of Retaining wall. Garland drain-120m	Being done as per proposal..	Being done as per proposal..
4j	Number of settling ponds	Not proposed.	There are 5 nos. of settling tanks already made	There are 5 nos. of settling tanks already made
4k	Specific comments of inspecting officer	Separate dumping of OB is maintained as per proposal. Retaining wall is made all along dump.		

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	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed	NIL	--do--
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Not proposed	NIL	--do--
5d	Total area fully reclaimed & rehabilitated	Not proposed	NIL	--do--
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not matured for reclamation and rehabilitation.		

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 on or before 1 st July,2023	Annual report on PMCP for submitted on 20/06/2023.	Annual report on PMCP for submitted on 20/06/2023.
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha)	No proposal No proposal	Nil Nil	Nil Nil

	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	Nil Nil Nil Nil	Nil Nil Nil Nil
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	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not proposed	NIL	NIL
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring proposed	Environmental monitoring carried out at regular interval and observed that all the parameters within the specified standard limit.	Environmental monitoring carried out at regular interval and observed that all the parameters within the specified standard limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive	Area is not matured for reclamation and rehabilitation.		

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	Grade wise sorting by crushing and screening is planned to dispatch to end user.	The grade wise sorting has been done by Mechanised screening and crushing.	The grade wise sorting has been done by Mechanised screening and crushing.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines	+45% Fe	Different grade of mineral sorted out at mines Lumps :45-60%Fe Fines : 45-60% Fe	Different grade of mineral sorted out at mines Lumps :45-60%Fe

				Fines : 45-60% Fe
7d	Any beneficiation process at mines	Not proposed	Nil	Only crushing and screening
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade wise sorting is being practiced by crushing and screening.		

8.0 Environment:

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	No Generation of Top Soil.	No Generation of Top Soil.	No Generation of Top Soil.
8b	Concurrent use or storage of topsoil	Not Proposed	No Generation of Top Soil.	No Generation of Top Soil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumps for overburden & Waste and Iron ore Fines stacks, are proposed.	Separate dumps for overburden & Waste and Iron ore Fines are stacked separately.	Separate dumps for overburden & Waste
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Area is not matured for reclamation & rehabilitation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Area is not matured for reclamation & rehabilitation.
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	1000 nos. of saplings has been proposed for plantation during 2022-23.	2300 nos. of saplings have been planted during 2022-23.	2300 nos. of saplings have been planted during 2022-23. Cumulative plantation 15190.
8g	Survival rate	Not specified	75%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling has been proposed to control airborne dust.	Regular Water sprinkling through 3 nos Water tanker (10KL each) is being used to control airborne dust.	Regular Water sprinkling through 3 nos Water tanker (10KL each) is being used to control airborne dust
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mines area is maintained by plantation.		

9.0 Compliance of Rule 45 (2022-23)

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	MR submitted Regularly AR submitted up to <u>2022-23</u>	AR has been submitted within due time i.e. on 26.06.2023

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	Mining Engineer and Geologist appointed	Mining Engineer and Geologist appointed												
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<table border="1"> <tbody> <tr> <td>Already exploited & abandoned by opencast(O/C) mining</td> <td>0.00</td> </tr> <tr> <td>Covered under current working</td> <td>17.65</td> </tr> <tr> <td>Reclaimed / rehabilitated</td> <td>0.00</td> </tr> <tr> <td>Used for waste disposal</td> <td>11.14</td> </tr> <tr> <td>Occupied by plant buildings, residential, welfare buildings & roads</td> <td>3.50</td> </tr> <tr> <td>Other purpose (mineral storage & other)</td> <td>3.10</td> </tr> </tbody> </table>	Already exploited & abandoned by opencast(O/C) mining	0.00	Covered under current working	17.65	Reclaimed / rehabilitated	0.00	Used for waste disposal	11.14	Occupied by plant buildings, residential, welfare buildings & roads	3.50	Other purpose (mineral storage & other)	3.10	Found in order.	Found in order
Already exploited & abandoned by opencast(O/C) mining	0.00															
Covered under current working	17.65															
Reclaimed / rehabilitated	0.00															
Used for waste disposal	11.14															
Occupied by plant buildings, residential, welfare buildings & roads	3.50															
Other purpose (mineral storage & other)	3.10															
9d	Scrutiny of Annual return on Afforestation	Plantation of 2300 nos. of saplings has been reported	Found in order.	Found in order												
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Found in order.	Found in order												
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: 77744.49 MT Graded Ore (Lump): 45%to51%: 789.84T 51% to55%: 1.72 T 55% to58%:5621.06 T 58% to 60%: 632.93 T Graded Ore (Fines): 45% to 51%: 88324.33 51% to 55%: 20545.72 T 55% to 58%:9451.96 T 58% to 60%: 164.17 T	Found in order.	Found in order												
9g	Scrutiny of Annual return on sale value, Ex. Mine price &	Production cost: Rs 945.57 Per Tonne	Found in order.													

	production cost			Found in order
9i	Scrutiny of Annual return on fixed assets	Rs 224124984.00		Found in order.
9k	Scrutiny of Annual return on mining machineries			
		Type of machinery	Capacity of each unit	No. of units
		DTH Drill & Compressor	100 mm & 450 cfm	2
		Hydraulic Excavator	1.67M ³	5
		Hydraulic Excavator	1.2 M ³	6
		Dumper	25 T	29
		Dozer	160 HP	2
		Loader	2 CUM	8
		Rock Breaker	125HP	2
		Mobile Screening Plant	200-250 TPH	3
		Stationary crusher Plant	250 TPH	1
		Mobile crusher Plant	150 TPH	2
		Water Tanker	10KL	3
		Hydra Crane	12T	1
				Found in order.
				Found in order

10- Details of violations observed during last inspection and the compliance status.
No Violation of serious nature is observed during the inspection.

Date:

Signature:

Name: D. Upadhyay

Designation: DCOM