

MCDR Inspection Report 2023-24**General:**

Sl. No.	Particulars	Details
1	Name of the Mine	Metabodeli Iron Ore Mine
2	Date of Inspection	23.12.2024
3	Name of Inspecting Officer	Prem Prakash, Regional Controller of Mines
4	Last date of Inspection & Officer	19.09.2023, Shri Dayanand Upadhyay, DCOM
5	Name of official accompanying inspection	Shri T. Prasanna Kumar, President (Mines) Shri Krishnkant (Mine Manager)
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area: 25.00hect. Forest Land: 25.00 hect. Non-forest: 0.00 hect.
7	Mine code	30CHG08001
8	IBM Registration Number under rule 45 of MCDR, 2017	IBM/4800/2011
9	Name of the Lessee, Address, Phone, email and fax number	M/s Jayaswal Neco Industries Ltd, F-8, MIDC Industrial Area, Hingna Road, Nagpur, Maharashtra, Pin Code-440016 Phone- 6201956879, Fax- 7721264279 Email - mines.bhanupratappur@necoindia.com / spd.mines@necoindia.com
10	Village	Metabodeli
11	Taluka/ Mandal	Pakhanjur
12	District	Kanker
13	Pin code	494665
14	State	Chhattisgarh
15	Post Office	Chargaon
16	Nearest Police Station	Siksod
17	Nearest Railway Station	Antagarh
18	Date of Grant of Mining Lease	17.01.2002
19	Date of Execution	17.01.2002
20	Date of opening of Mine	05.07.2002
21	Date of First Renewal, if applicable and its period & expiry	Not Applicable However, as per Section 8A of MMDR, Amendment Act, 2015, validity of the lease period extended up to 50 years i.e. 16.01.2052.
22	Date of Second Renewal, if applicable and its period & expiry	Not Applicable
23	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
24	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Sangram Keshari Swain, Executive Director, (Steel Plant Division) Address: Siltara Growth Centre, Siltara, Raipur Chhattisgarh-493111 Phone-07721-264241. Email:- sangram.swain@necoindia.com

		Date of appointment-13.11.2023
25	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri T. Prasanna Kumar, President (Mines) & Agent Address: Village-Bhanupratappur, Tahsil-Bhanupratappur, District-Kanker (C.G.),494669 Mobile no -9109119092 Email: tembe.prasanna@necoindia.com Date of Appointment- 22.03.2017
26	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Krishnkant, Diploma in Mining & 1st Class Mine Manager Competency Experience: 14+ years Address: Village-Bhanupratappur, Tahsil-Bhanupratappur, District-Kanker (C.G.),494669 Mobile no -9109118939 Email: bhanupratappur@necoindia.com Date of Appointment- 02.07.2018
27	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Vinod Thakur Qualification: BE (Mining) Experience: +10 years Address: Village-Bhanupratappur, Tahsil-Bhanupratappur, District-Kanker (C.G.),494669 Mobile no -9109118925 Email: mines.bhanupratappur@necoindia.com Date of Appointment- 12.09.2018
28	Whether Geologist appointment in mines satisfy the rule 55 & carrying out their duties as per rule 54 & 55 (MCDR2017).	Yes, Shri Suresh Sonkar Qualification: MSc. (Geology) Experience:+10 years Address: Village- Vivekanand Ward Mungeli, Dist- Mungeli, Chhattisgarh Email- sureshsonkar89@gmail.com Phone no. 9893751235 Date of Appointment - 12.06.2023
29	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in Approval letter. (if any)	Modification Mining Plan Letter No: BST/FE/MPLN-465/NGP/2016/41-Raipur/331 Approval DATE: 24.08.2016 Plan period:2017-18 to 2021-22 Modification Mining Plan Letter No: Kanker/Fe/MPLN/1149/2018-Raipur/244. Approval Date: 23.05.2018 Plan period:2018-19 to 2021-22 Modification Mining Plan Letter No: Kanker/Fe/MPLN/1253/2020-Raipur/954. Approval Date: 06.01.2021 Plan period:2020-21 to 2021-22
30	Date of Approval of Review of Mining Plan/Modification of Review of Mining Plan with five-year period and specific condition in approval letter, if any.	Review of Mining Plan Letter No. Kanker/Fe/MPLN/1300/2021-Raipur/472 Approval Date: 18.01.2022 Proposal period:2022-23 to 2026-27

31	Mineral(s) granted in lease and approved for Mining	Iron Ore
32	Method of Mining (Opencast/Underground)	Opencast
33	Category (A or B) (Fully Mechanized, Others or Manual)	Category-A
34	Captive/Non-Captive	Captive

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

1.0 Exploration:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	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. 2023-24	08 Boreholes with 204 meters	Entire potential mineralized area has been explored under G-1 i.e. 15.56Ha and area proved as non-mineralized -9.44 Ha, Total 25.00 Ha.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified	Jayaswal Neco Industries Limited Expenditure: Rs.163200.00	
1d	Balance area to be explored to bring Geological axis in 1or 2.	No proposal	Not Applicable	
1e	Balance reserves as on 04.04.2024	Under 111: 4609249.00 Tonne		As per information submitted in Annual Return 2023-24
1f	General remarks of Inspecting officer on geology, exploration etc.	No exploration has been proposed during the financial year 2023-24. However, 08 Nos. infilling boreholes were drilled in FY 2023-24 to know the continuity of ore body. Entire potential mineralized area has been explored under G1 level.		

2.0 Development:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
2a	Location of Development w.r.t lease area	In between Co-ordinate: E497542 to E498200 & N2216005 to N2216532	Carried out within the proposed area	

2b	Separate benches in top soil overburden and mineral (Rule15)	Separate benches proposed in overburden & mineral	Separate benches were maintained in overburden & mineral	No proposal for top soil
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.03	Tonne:Cum
2d	Quantity of top soil generation in m ³	No proposal	Nil	The top hill region has already been excavated, and no top soil cover remains
2e	Quantity of overburden generation in m ³	29927.00 m ³	35913.00 m ³	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Production and development were carried out within the proposed area.		

3.0 Exploitation:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	996093.00 Tonne	996033.00Tonne	
3c	Recovery of Saleable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	No proposal	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	--	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	

3j	Provision of drilling & blasting in mineral benches	Drilling and Blasting proposed	Drilling and blasting were carried out as proposed	
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	Bench height- 6 meters maximum Bench width-09 meters minimum	Not maintained as proposed	Violation under Rule 11(1) of MCDR, 2017 issued
3m	Total area covered under excavation/pits	12.70 Hectares up to the end of the plan period FY: 2026-27	12.24Ha Ha. up to the end of FY: 2023-24	
3n	Ore to OB ratio for the pit/mine During the year	1:0.05	1:0.03	Tonne:Cum
3o	Total area put in use under different Heads at the end of year	15.698 Ha. up to the end of the plan period FY: 2026-27	15.686 Ha. up to the end of FY: 2023-24	
3p	Production of ROM in Tones mineral during last Five-years period, as applicable (in Tonne)	2019-20:950222	2019-20:950148.96	All units in MT (Metric Tonnes) As per the AR submitted
		2020-21:995455	2020-21:995411.00	
		2021-22:995498	2021-22:995441.00	
		2022-23:995775	2022-23:995707.00	
		2023-24: 996093	2023-24:996033.00	
3q	General remarks of inspecting officer on method of mining etc.	Open cast working is being carried out by deployment of HEMM with the help of drilling & blasting. Violation under Rule 11(1) of MCDR, 2017 issued for not maintaining systematic & regular benches as envisaged in the approved RMP.		

4.0 Solid Waste Management-Dumping:

4a	Separate dumping of top soil, OB & mineral reject (Rule32,33)	Separate dumping of Waste/IB/OB proposed	Separate dumping for Waste/IB /OB carried out	No Top soil and mineral reject dumping proposed
4b	Location of top soil, OB & mineral reject dumps	Location of Waste dump: E497600 to E497685 & N2216203 to N2216290	Waste dump is made at the earmarked area	Violation under Rule 11(1) of MCDR, 2017 issued for not maintaining proper terracing of waste dump at regular interval
4c	Number of Dumps within lease area and outside lease area	02 nos. of dump within lease area Outside lease area: Nil	02 nos. of dump within lease area Outside lease area: Nil	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Proposed beyond ultimate pit limit	Outside UPL	
4e	Number of Active & Alive dumps	01nos	01nos	
4f	Number of dead dumps	01nos	01nos	
4g	Number of dumps stabilized	No proposed	01 dead dump stabilized by plantation	Violation under 11(1) issued
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Not constructed completely & properly	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall- 40 mt. Garland drain- 40 mt.	Not constructed completely & properly	
4j	Number of settling ponds	01nos	08nos	
4k	Specific comments of inspecting officer on waste Dump management	Environmental protection measures have not been undertaken properly around the waste dump as proposed. Violation under 11(1) issued as the retaining wall/bunds and garland drains proposed are not found made completely & properly.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area for starting backfilling	No proposal	Nil	
5b	Area under back filling of mined out area	No proposal	Nil	
5c	Concurrent use of top soil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Not applicable	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	Area is not matured for reclamation and rehabilitation
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The area is not fully exhausted for backfilling, reclamation, etc.		

6.0 Progressive Mine Closer Plan:

S.N	Item	Proposals (2023-24)	Actual work (2023-24)	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 22.06.2023
6b	Management of worked/mined out benches			
	I. Area available for rehabilitation (Ha)	No proposal	Nil	No area is mined out fully at present
	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			
6c	Compliance on reclamation and rehabilitation by back filling			
	i. Voids available for back filling (L*B*D)	No proposal	Nil	No area has matured for reclamation and rehabilitation purposes
	ii. Void filled by waste/ tailings			
	iii. Afforestation on the back filling			
	iv. Rehabilitation by making water reservoir			
	v. Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease			
	i. Afforestation	No proposal	Nil	
	ii. Area rehabilitation	No proposal	Nil	
	iii. Method of rehabilitation	No proposal	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environmental monitoring of air, water & noise proposed	Environmental monitoring of air, water & noise was carried out	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Annual PMCP report has been submitted. No any part of ML area got fully exhausted for backfilling purposes.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
7a	ROM mineral dispatch or Grade wise sorting within Lease area	Grade wise sorting by crushing and screening	Grade wise sorting by crushing and screening	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical.	
7c	Different grade of mineral sort out at mine	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:

S.N.	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
8a	Separate removal and utilization of top soil (Rule 32)	No proposal	Nil	
8b	Concurrent use or storage of top soil	No proposal	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule33)	Separate OB/Waste dump	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, dump set etc.)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed @ 250 saplings/ 0.10ha per year	1250 saplings planted in about 2.0 ha. area	
8g	Survival rate	Not Specified	80%	
8h	Water sprinkling on roads to control air borne dust	Proposed	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 Mine area	Aesthetic beauty in & around the mine area was good.		

9.0 Compliance of Rule 45:

S. N.	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR being submitted regularly Annual Return submitted upto 2023-24		
S. N.	Item	Details Given in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: Shri Krishnkant Mining Engineer: Shri Vinod Thakur Geologist: Shri Suresh Sonkar	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, Reclaimed area, dumps etc.	Pit- 12.240 Ha Waste/reject-0.603 Others-2.843 Total 15.686 Ha.	Pit- 12.240 Ha Waste/reject-0.603 Others-2.843 Total 15.686 Ha.	
9d	Scrutiny of Annual return on afforestation	1250 Nos. of plantation during the yr. within lease area	1250 Nos. of plantation during the yr. within lease area	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	No generation of mineral rejects reported	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM: in Tonne Opening-6.885 Production- 996033.0 Closing-123.835	ROM: in Tonne Opening-6.885 Production- 996033.0 Closing-123.835	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex. Mine price and cost of production- Rs. 1613.96/Tonne Sale value-Nil	Captive consumption	
9i	Scrutiny of Annual return on Fixed assets	Rs. 60522236.00 including land, building, Plant and Machinery, etc.	Rs. 60522236.00 including land, building, Plant and Machinery, etc.	
9k	Scrutiny of Annual return on mining Machineris	Excavator-6 Nos. Loader- 1 Nos, Dumpers: 8 Nos. Crusher-02 Nos.	Excavator-6 Nos. Loader- 1 Nos, Dumpers: 8 Nos. Crusher-02 Nos.	

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

11. Analysis of DAI and submission of the scrutiny reports in the MISPAS portal.

As per the directives issued by the CCOM (I/C) dated 23.09.2024, the digital imageries (Drone Data) submitted by the lessee has been analysed and uploaded the scrutiny report/briefing as per the specified format in the online portal (i.e. MIDPAS).

प्रेम प्रकाश / Prem Prakash

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur