

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION
MCDR INSPECTION REPORT
BANGALORE REGIONAL OFFICE

File No-MCDR-MiFLOFE/31/2023-BNG-IBM_RO_BNG

Mine Code- 30KAR03191

General

S N	Particulars	Details
1	Name of the Mine	Janikunta Iron Ore Mine (ML No. 11)
2	Date of Inspection	12.07.2024
3	Name of Inspecting Officer	Dr. Sudhakara T. L., SMG Shri A K Pany, AME
4	Name of official accompanying inspection	Shri A Gururaj, Mines Manager Ms. Dhanshree Nerlikar, Geologist Shri Kiran Kumar P, Mining Engineer
5	Last date of Inspection & Officer	27.12.2023 Shri H M Shivakumar, ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land- Nil Non Forest Land- 44.42 ha Total Lease area- 44.42 ha
7	Mine code	30KAR03191
8	IBM Registration Number under rule 45 of MCDR, 2017	IBM/216/2011
9	Name of the lessee, Address, phone, email and fax number	M/s Hothur Ispat Private Limited, Opposite Nandi School, Infantry road, Cantonment, Ballari - 583104 Phone: 9448496750 E-mail: farooq@hothurindia.com
10	Village	Janikunta
11	Taluka/Mandal	Ballari
12	District	Ballari
13	Pin code	583104
14	State	Karnataka
15	Post office	Ballari
16	Nearest police station	Ballari (Rural)
17	Nearest Railway station	Ballari cantonment
18	Date of Grant of Mining Lease	10.08.2020
19	Date of Execution	10.08.2020
20	Date of Expiry	09.08.2070
21	Date of opening of Mine	12.02.2021
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Mohamad Iqbal Hothur, CMD, M/s Hothur Ispat Private Limited, Hothur Square. #284, 100 Feet road, Indiranagar- Bangalore-560008

23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	A Syed Farooq, Mine Agent Hothur Square. #284, 100 Feet road, Indiranagar- Bangalore-560008 Phone: 9448496750 E-Mail- Farooq@hothurindia.com Date of appointment: 15.02.2021
24	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Gururaj A, Mines Manager, Opposite Nandi School, Infantry Road, Cantonment, Ballari-583104 Phone: 9480267877 E-mail: Hiplmining@gmail.com a.gururaj@hothurindia.com Date of appointment: 01.11.2021
25	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Kiran Kumar P, Mining Engineer Qualification: B. Tech (Mining) Experience: 5 Years Infantry Road, Cantonment, Ballari-583104 Date of Appointment in mine: 29.10.2021
26	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Ms. Dhanshree Nerlikar, Geologist Qualification: Msc. Geology Experience: more than 5 Years Infantry Road, Cantonment, Ballari-583104 Date of Appointment in mine: 09.12.2023
27	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modification of Mining Plan approved vide letter No. 279/1101/2019/BNG dated 08/07/2022 for the period 2022-23 to 2024-25
28	Mineral(s) granted in lease and proved for mining	Iron ore
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanized, Others or Manual)	Category-A, Fully Mechanized
31	Captive/Non Captive	Captive

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	NA	No Backlog from previous year.
1b	Exploration over lease area during the year for Geological axis 1 or 2.	No exploration proposal during the year 2023-24	Nil	No proposal
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not applicable	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2		The potential mineralized area has been explored under G1 level of exploration.	
1e	Balance Reserves as on 01.04.2024	Reserve- : 2843254 Tonne Resource : 2587786 Tonne Total : 5431040 Tonne		In the Annual Return submitted for the year 2023-24,

			reserve/resources has been updated based on the exploration data without approval of Mining plan. Violation pointed out under Rule 45(7) of MCDR, 2017
1f	General remarks of inspecting officer on geology, exploration etc.	As per the approved Mining Plan out of total lease area 44.42 ha 7.47 ha explored in G1 level, 2.53 ha in G3 level and 34.42 ha proved as non-mineralized area. Further, 22 nos. of bore holes proposed and drilled during the year 2022-23. The grade of Iron Ore varies from 35% to 58 % Fe. The entire mineralized area has been explored under G1 level.	

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N1671520 TO N1671770 E 691650 TO E 691970	N 1671510 TO N 1671770 E 691780 To E 691930	Excavation carried out within proposed area.
2b	Separate benches in topsoil, overburden and mineral	No proposal for generation of top soil, Separate Benches for OB and mineral is proposed	Separate benches maintained for OB and ore	
2c	Stripping ratio or ore to OB ratio	1: 1.81 Ore: 309891 tonnes Waste: 280397 Cum	1:2.60 Ore: 190110 tons Waste: 224317 Cum	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden/waste generation in m ³	280397 Cum	224317 Cum	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The Iron Ore deposit of the lease occurs in hilly terrain and the pit is developed from one side with benching. The formation is hard. Erstwhile lessee has not maintained the mine benches geometry systematically. Current lessee has initiated rectification of mine benches dimension.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One Pit	One Pit	
3b	Quantity of ROM production proposed	309891 tonne	190110 tonne	61.3 % of proposed ROM production achieved during the year. Violation pointed out under Rule 11(1) of MCDR, 2017
3c	Recovery of salable/usable mineral from ROM production	100%	100%	

3d	Quantity of mineral reject generation	No proposal of generation of Mineral reject.	Nil	In Annual Returns Mineral reject wrongly reported. Violation pointed out
3e	Grade of mineral reject generation and threshold value declared	Threshold Value- Hematitic iron ore: 45% Fe(Min) and Hematitic Siliceous Ore: 35% Fe (Min). Cutoff grade and threshold value is same.	Mineral reject- 44 %, Threshold Value- Hematitic iron ore: 45% Fe(Min) and Hematitic Siliceous Ore: 35% Fe (Min).	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	In Annual Returns Mineral reject wrongly reported. Violation pointed out
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	Deployed 250 TPH Fixed crusher for Screening and segregation.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study proposed	Nil	
3j	Provision of drilling & blasting in mineral benches	Provision of drilling & blasting proposed in mineral benches	Deep hole drilling of 100mm dia is done with 2m burden, 3m spacing and 8m Depth. Blasting is done with Slurry explosives.	
3k	Provision of mining machineries in mineral benches	Excavator – 1 Cum Dumper – 15 tonne Wagon Drill-100 mm	Excavator – 1 Cum Dumper – 15 tonne Wagon Drill-100 mm	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height-7.5m, Width- 8m	The bench height & width is not maintained as per proposal at section E-E' to G-G' of the quarry.	For the same violation was issued during earlier inspection and rectification work is under progress.
3m	Total area covered under excavation/pits	17.4 ha	17.36 ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 1.81 Ore: 309891 tonnes Waste: 280397 Cum	1:2.60 Ore: 190110 tons Waste: 224317 Cum	
3o	Total area put in use under different heads at the end of year	Mining -17.4 Ha. Dumps -8.56 Ha. Mineral storage -0.87 Ha Infrastructure - 0.50 Ha Roads- 2.75 Ha Mineral Separation Plant-	Mining -17.36 Ha Dumps -8.52 Ha Mineral storage 2.57 Ha Infrastructure - 0.50 Ha Roads- 0.87 Ha Mineral Separation Plant-	Within the proposed limit.

		0.25 ha Green belt - 2.50 Ha Total- 32.83 Ha	0.25 ha Green belt - 2.50 Ha Total- 32.61 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2020-21 – 200005 T 2021-22 - 200060 T 2022-23- 309841 T 2023-24- 309891 T	2020-21 – 69800 T 2021-22 - 156700 T 2022-23- 205034 T 2023-24- 190110 T	Mining operation has been commenced from 12.02.2021
3q	General remarks of inspecting officer on method of mining etc.	Mechanized opencast mining operation carried out with shovel – dumper combination. The lease was granted through auction during 2020. At some places of the quarry the benches has not been maintained properly by the old lessee. The present lessee carry out the rectification work, however due to the presence of hard BHQ, the progress is slow. The shortfall production proposal of ROM and reporting of generation of 85910 tonnes of Subgrade/mineral reject during the year 2023-24 is communicated to lessee through violation letter dated 12.08.2024.		

Solid Waste Management-Dumping

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of OB and mineral reject proposed	Carried out	
4b	Location of topsoil, OB & mineral reject dumps	OB Dump- PD1 N 1671520 to N1671695 & E691370 to E 691640	OB Dump- PD1 N 1671520 to N 1671695 & E691370 to E 691485	
4c	Number of dumps within lease area and outside lease area	09 Nos. –within lease area 04 Nos. – outside lease area		
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	3 nos. of waste dumps are within UPL and 6 nos. outside UPL.		
4e	Number of active & alive dumps	3 nos. of active dump	3 nos. of active dump	
4f	Number of dead dumps	6 nos. of dead dump	6 nos. of dead dump	
4g	Number of dumps stabilized	06 Nos. –within lease area 04 Nos. – outside lease area	06 Nos. –within lease area 04 Nos. – outside lease area	
4h	Whether Retaining wall or garland drain all along dumps are there	No	Proposed	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall- 160 m, Garland Drain- 160 m proposed during the year 2023-24	Retaining wall- 62 m, Garland Drain- 30 m has been constructed	Deviation pointed out to lessee
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting	Waste dumping has been carried out as per the proposed location.		

	officer on waste dump management	The construction of retaining wall and garland drain to protect the waste dump has not been carried out as per proposal. The deviation is pointed out to lessee through violation letter dated 12.08.2024.
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Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	The mineral from Pit-1 has been exhausted and proposed for backfilling/waste dumping.		
5b	Area under backfilling of mined out area	1.87 ha	1.11 ha	The proposed height is not achieved.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The mineral from Pit-1 has been exhausted and proposed for backfilling/waste dumping during the year 2023-24. The proposal has not been achieved completely due to less waste generation.		

Progressive Mine Closure Plan

S.N.	Item	Proposals (Yr.2023-24)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26.	To be submitted before 1 st July	Submitted within stipulated time	
6b	Area available for rehabilitation (ha)	No proposal	0.29 ha	Stabilization by plantation.
6c	Afforestation done (ha)	0.5 ha	0.8 ha	
6d	No. of saplings planted during the year	1250	2373	
6e	Cumulative no. of plants	15905 nos.	Total 17166 nos. of tree planted.	-
6f	Any other specific method of rehabilitation	-	-	-
6g	Cost incurred on watch & care during the year	No proposal	Rs. 1.74 lakh	As reported by lessee
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	PD-1, 1.87 ha (190X100X50 m)		-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	PD-1, 1.87 ha (190X100X50 m)	PD-1, 1.11 ha (110X100X30 m) Approx.	-

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Nil	Nil	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Nil	Nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Nil	Nil	-
6m	Compliance of Rehabilitation of waste land within lease (i)Afforestation	Nil	Nil	-
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Nil	Nil	-
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil	-
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring of Noise, Air and Ground water quality proposed	Monitoring carried out quarterly.	Noise, air, water quality results within permissible limit.
6q	General remark of inspecting officer on PMCP compliance and progressive closure operation etc.	Lessee has undertaken PMCP activities as per proposal.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Lumps & fines	Lumps & fines and Grade wise sorting done within lease area by	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines	Lumps and Fines	Lumps & Fines 45 to 51% Fe	Only Lumps dispatched from Mine for captive use. Lessee team told, fines readily not suitably use in their Captive plant.
7d	Any beneficiation process at mines	No proposal	No Beneficiation plant exists within lease. Only crushing and screening done as per proposal	

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No Beneficiation plant installed in the mine and only screening and crushing is carried out. Lessee is utilizing the produced mineral (lumps) for Captive purpose.
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Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of generation of Topsoil	Not generated	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump proposed	Carried out	
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 41)	17166 Nos. of cumulative plantation up to 31.03.2024		
8g	Survival rate	Not specified	70%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to suppress the dust	Water sprinkling on haul roads carried out with tankers	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The aesthetic beauty in & around the mine area is maintained.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Return submitted		Submitted within stipulated time
S.N.	Item	Details Given in AR.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer :03 nos. (including Mines Manager) Diploma Mining Engineer: 04 Geologist : 02 nos.	All present during the day of inspection.	Deficiency is observed on reporting of reserve/resource, mineral reject, opening stock of lump, Royalty, DMF & NMET etc. The

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit – 17.36 Ha Dump –8.52 Ha Road & Infrastructure - 3.5 Ha	Within proposed land use.	same has been pointed out to lessee vide show cause notice dated 12.08.2024.
9d	Scrutiny of Annual return on afforestation	2373 Nos.	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	85910 tonne from un-processed and 20100 tonne from processed. Grade 44% Fe	Deficiency is observed on reporting of Mineral Reject. Violation pointed out.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock-184088.250 tonne	Appears to be correct	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production Rs. 985.00 and Ex-mine price is Rs. 985.00	Royalty, DMF & NMET reported were not tallying with Cost of Production. Violation pointed out.	
9i	Scrutiny of Annual return on fixed assets	Rs. 188149956.00	Appears to be correct	
9k	Scrutiny of Annual return on mining machineries	Back Hoe – 1.1-1.2 M3 Front end Loader-1.7 M3 Dumper – 13 Tonne Water Tanker- 10 KL Blast Host Drill-150 mm Crusher-250 TPH	Deployed in the mine.	

Details of violations observed during current inspection and compliance position of violation pointed out

<u>Violation observed</u>			<u>Show cause position</u>		
Rule No.	Issued on	Compliance on	Rule No.	Issued on	Compliance on
11(1) of MCDR	12/08/2024	18/09/2024	45(7) of MCDR	12/08/2024	18/09/2024

डॉ. सुधाकर टी.एल. / Dr. Sudhakara T. L.)
वरिष्ठ खनन भूविज्ञानी / Senior Mining Geologist