

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

File No - MCDR-MiFL0FE/9/2023-BNG-IBM_RO_BNG

Mine Code- 30KAR03133

General

S N	Particulars	Details
1	Name of the Mine	HARAGINADONA IORN ORE MINE ML No 2352
2	Date of Inspection	18.12.2024
3	Name of Inspecting Officer	Shri Ashish Kumar Behera, AMG
4	Name of official accompanying inspection	Shri. Vangala Srinivasula Reddy, Mines Manager
5	Last date of Inspection & Officer	28.12.2023 Shri H M Shivkumar, ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	76.63 Ha (as per CEC), Total Non –Forest Land (Govt. Revenue Land).
7	Mine code	30KAR03133
8	IBM Registration Number under rule 45 of MCDR, 2017	IBM/4514/2011
9	Name of the lessee, Address, phone, email and fax number	Sri. Allum prashant Gadigi Palace Car Street, Ballari Ph: 9448113500 e-mail: apmines@yahoo.co.in
10	Village	Haraginadoni
11	Taluka/Mandal	Ballari
12	District	Ballari
13	Pin code	583101
14	State	Karnataka
15	Post office	Ballari
16	Nearest police station	Ballari Rural
17	Nearest Railway station	Ballari Junction
18	Date of Grant of Mining Lease	21/07/2000 Valid up to 20-07-2050 as per MMDR (Amendment) Act 2015
19	Date of Execution	21/07/2000
20	Date of Expiry	20/07/2050
21	Date of opening of Mine	21/07/2000
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	NA

23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Basavaraj Gadigi Palace Car Street, Ballari Ph: 9448441458 e-mail: apmines@yahoo.co.in
24	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri. Vangala Srinivasula Reddy, Full time B.Tech Mining, Gadigi Palace Car Street, Ballari, Karnataka DOA: 16/12/2024 e-mail: apmines@yahoo.co.in
25	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. Vangala Srinivasula Reddy, Full time B.Tech Mining 5 Yrs Exp. Gadigi Palace Car Street, Ballari, Karnataka DOA: 16/12/2024, e-mail: apmines@yahoo.co.in
26	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. Prasanna Kumar, Geologist M.Sc in Geology Gadigi Palace Car Street, Ballari DOA – 01/02/2021 e-mail: apmines@yahoo.co.in
27	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Vide Letter no 279/594/98/BNG/-709 Dated 19/11/2020 valid from 2021-22 to 2025-26.
28	Mineral(s) granted in lease and proved for mining	Iron Ore, Yellow Oxide and Red Oxide Lease intends to mine Iron ore
29	Method of Mining (Opencast, Underground)	Opencast
30	Category (Fully Mechanized, Others or Manual)	Category-A, Fully Mechanized
31	Captive/non-captive	Non-Captive

Exploration

S.N.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	NA	Nil	Nil
1b	Exploration over lease area during the year for Geological axis 1 or 2.	No proposal	Nil	Nil
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	36.00 Ha needs to be explored
1e	Balance reserves as on 01.04.2024	Iron Ore: 12,97,214 MMIO: 37,81,334		The Balance reserve/resource figures as per Annual

			Return submitted for FY 2023-24 and after depleting production from last approved document.
1f	General remarks of inspecting officer on geology, exploration etc.	The lease area has been divided into three blocks namely A, B & C for ease of reference. A block contains both Iron Ore and Magnetized Magnetite Iron Ore (MMIO) and B & C blocks are having only MMIO. In A block Iron band-500m X 10-30m (L X W) and 3 MMIO bands running parallel with Length 100-400m X 10-20m width. In B block, MMIO band is present over a length of 700m with discontinuity and width varying between 10-30m.	The balance 36 Ha lease area is proposed to be fully explored under G-1 scale of exploration with 4 RC/DTH holes in the year 2025-26.

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N1674538 N1674730 to E689226 E689420	N1674538 N1674730 to E689226 E689420	Excavation carried out within proposed area of 1.7 Ha.
2b	Separate benches in topsoil, overburden and mineral	Total 5 benches and all benches comprise of waste and ore patches	Total 5 benches and all benches comprise of waste and ore patches	
2c	Stripping ratio or ore to OB ratio	1: 1.17	1:1.18	
2d	Quantity of topsoil generation in m ³	NA	Nil	
2e	Quantity of overburden/waste generation in m ³	293050	170000	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The entire mining lease divided into 3 blocks. However, only one pit is developed in A Block developed with 5 working benches for winning Iron Ore and MMIO deposit suitable for the type of deposit.		

Exploitation

S.N.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	One pit	One pit	Exploitation carried out as per proposal.
3b	Quantity of ROM production proposed	Iron Ore -127000 MMIO-123000	Iron Ore: 20000 MMIO -123000	Violation issued for not achieving the proposed production.

3c	Recovery of salable/usable mineral from ROM production	Iron ore -95% MMIO: 80%	Iron ore -95% MMIO: 80%	
3d	Quantity of mineral reject generation	12090 MT	No data furnished in AR-2023-24.	
3e	Grade of mineral reject generation and threshold value declared	30 to 35 Fe%	30 to 35 Fe%	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	NA
3g	Grade of sub-grade mineral generation	No proposal	Nil	NA
3h	Manual / Mechanized method adopted for segregating from ROM	Manual / Mechanized method proposed for segregating from ROM	Manual / Mechanized method adopted for segregating from ROM	Approx 70% of ROM generated is crushed and screened mechanically and rest 30% of ROM is segregated manually.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No such beneficiation study carried out in the reporting year.	
3j	Provision of drilling & blasting in mineral benches	Provision was made for drilling & blasting	Deep hole drilling and blasting is carried.	Wagon drill is used of 110mm dia, Slurry cartridges of 83 mm is used with shock tube detonation system. Spacing-3, burden 2 m and s.g drilling-0.5 m
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator-3 Trucks-14 Wheel loader-2 Drilling unit -1 Water tanker -1 Crusher & Screener -2 Jeep -1 Compressor -1	Excavator-3 Trucks-12 Wheel loader-2 Drilling unit -1 Water tanker -2 Crusher & Screener -2 Jeep -1	The reported machineries were found deployed on the day of inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 8 Mts Height 8 Mts Width	Actual 8 Mts Height 8 Mts Width	

3m	Total area covered under excavation/pits	3.38 ha at the end of plan period	3.38 ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 1.172	1: 1.18	
3o	Total area put in use under different heads at the end of year	Mining -3.658 Ha Dumps -5.547 Ha Mineral storage 0.80 Ha Mineral separation plant- 0.20 Ha Infrastructure, work shop building etc.- 0.010 Ha Roads- 0.726 Ha Green belt - 4.933 Ha Others: 0.910 Ha Afforestation -0.841 Ha Total- 76.63 Ha	Mining -3.658 Ha Dumps -5.547 Ha Mineral storage 0.80 Ha Mineral separation plant- 0.20 Ha Infrastructure, work shop building etc.- 0.010 Ha Roads- 0.726 Ha Green belt - 4.933 Ha Others: 0.910 Ha Afforestation - 0.841Ha Total- 76.63 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	MMIO: 2019-20:123000 2020-21:123000 2021-22:123000 2022-23:123000 2023-24:123000 (in tonnes) Iron ore: 2019-20:127000 2020-21:127000 2021-22:127000 2022-23:127000 2023-24:127000 (in tonnes)	MMIO: 2019-20:48000 2020-21:122000 2021-22:121000 2022-23:74000 2023-24:123000 (in tonnes) Iron ore: 2019-20:81000 2020-21:126000 2021-22:31000 2022-23: Nil 2023-24:20000 (in tonnes)	
3q	General remarks of inspecting officer on	The entire mining lease divided into 3 blocks. However, only one pit is developed in A Block developed with 5 working benches for winning		

method of mining etc.	Iron Ore and MMIO deposit suitable for the type of deposit.
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Solid Waste Management-Dumping

S.N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping for OB & Mineral rejects Proposed.	Separate dumping was carried out in as per proposal.	Nil
4b	Location of topsoil, OB & mineral reject dumps	For OB B Block N1674113 to N1664054 E688740 E688947 For Mineral reject N1673980 to N1664050 E689250 E689340	For OB B Block N1674113 to N1664054 E688740 E688947 For Mineral reject N1673980 to N1664050 E689250 E689340	
4c	Number of dumps within lease area and outside lease area	Within ML: 6 OB Dumps OML: Nil	Within ML: 6 OB Dumps OML: Nil	A block: The side slopes are divided into 5 dumps as per the stretch, D1, D2, D3, PD1a & PD1. B Block: ID-2 & ID-3
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB dumps proposed outside the UPL	OB dumping carried out Outside UPL	
4e	Number of active & alive dumps	One active and alive dumps proposed in B Block.	One active and alive dumps proposed in B Block.	
4f	Number of dead dumps		5 dead dumps proposed in A block.	
4g	Number of dumps stabilized	No proposal	5 dead dumps proposed in A block are under stabilization.	

4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	No proposal	The 1255m retaining wall and 1280m garland drains constructed in the past are being maintained.
4i	Length of Retaining wall or garland drain all along dump	No proposal	No proposal	
4j	Number of settling ponds	No proposal	NA	
4k	Specific comments of inspecting officer on waste dump management	The inactive waste dumps are being stabilized and systematically maintained with plantation and all the engineering structures like Retaining Wall and garland drains. Also, the active dumps are being managed as per the proposals.		

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 before starting backfilling	No proposal	Nil	No part of the Mine pit is matured for backfilling and reclamation as the Mineral persists at depth.
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 32)	No proposal	Nil	No generation of top soil
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No part of the Mine pit is matured for backfilling and reclamation as the Mineral persists at depth.		

Progressive Mine Closure 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.	Annual report on PMCP to be submitted by 1 st July 2024.	PMCP for the year 23-24 is submitted. 21 06 .2024(asper IBM Mail –Latest format).	Annual report on PMCP to be submitted by 1 st July 2024.
6b	Area available for rehabilitation (ha)	No proposal	No proposal	No proposal
6c	Afforestation done (ha)	Dump management :0.49	Dump management :0.49 Ha	Dump management :0.49 Ha.

6d	No. of saplings planted during the year	Dump ..management: 1000 no's Green belt afforestation: 575 no's	As per Ar-2023-24, 3000 nos. of saplings planted the year of 23-24 both dump and green belt and safety zone.	Agave, Honge, Kare Jaali, Neem.
6e	Cumulative no. of plants	Total 16200 nos. of tree planted.		-
6f	Any other specific method of rehabilitation	No proposal	Terracing and Plantation on the slope of dumps.	
6g	Cost incurred on watch & care during the year	1.78 L	3.00 L	Appears to be correct.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L, Y, R, V, D)	No proposal	Nil	No proposal
6i	Compliance on reclamation and rehabilitation by backfilling	No proposal	Nil	No proposal
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area	No proposal	Nil	No proposal
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	No proposal
6l	Compliance on reclamation and rehabilitation by backfilling (v) Afforestation	No proposal	Nil	No proposal
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	No proposal	Nil	No proposal
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	No proposal	Nil	No proposal
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	By way of plantation	Plantation carried out.	

6p	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring proposed in core zone & buffer zone.	Environmental monitoring carried out in core zone & buffer zone. Air monitoring stations Core zone- 3 Buffer -3 Water monitoring Core zone- 1 Buffer -1	Quarterly monitoring of environmental parameters was carried out by MSV Analytical laboratory, ballari. All the environmental parameters were observed to be within the permissible limits
6q	General remark of inspecting officer on PMCP compliance and progressive closure operation etc.	The afforestation is carried out as per proposal during the year. All the PMCP proposals made are carried out and complied with.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wisorting within lease area	Grade wise and size wise sorting proposed within the lease area.	Grade wise and size wise sorting is carried out within the lease area.	Carried out as per the proposal.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Proposed Manual/Mechanical	Manual with deployment of labors by hand sorting & picking. Mechanically using Crushing and Screening.	2 nos. of Crushing and screening unit (100 TPH and 50 TPH) as per the AR-2023-24.
7c	Different grade of mineral sorted outat mines	Iron ore +45 Lumps and Fines MMIO +35 Fe% Lumps & Fines.	Iron ore +45 Lumps and Fines MMIO +35 Fe% Lumps & Fines.	
7d	Any beneficiation process at mines	No proposal	No such beneficiation is carried out.	Only Dry crushing and screening is done
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The Mining lease area consists of low-grade Hematite Ore and MMIO which are suitably blended with higher grade ores to bring it to marketable grade. Also, manual sorting of ROM is carried out to carefully segregate it from the waste thereby		

		taking care of mineral conservation aspects. However, no beneficiation studies are carried out till date.
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Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	No generation of top soil	During the reporting year work is being carried out within the broken-up area and therefore no Topsoil generated. Earlier generated topsoil has been utilized for plantation.
8b	Concurrent use or storage of topsoil	No proposal	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate Dump for OB Proposed	Separate dump for OB is maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	No generation of top soil	Work is carried out in broken up area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No proposal	Nil	
8g	Survival rate	30%	30%	
8h	Water sprinkling on roads to control airborne dust	Two water tankers (5000 liters).	One water tanker is used (5000 liters).	The reported water tankers were found deployed on the day of inspection.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The aesthetic beauty in and around the mine is satisfactorily maintained.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual returns submitted within due 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	Mines Manager - 1(Lalam Ravi Ramunaidu) Mining Engineer-1 Geologist-1	Appointed, information has been furnished in AR-2023-24.	During inspection the previous mining engineer terminated and new mining engineer appointed on 16/12/2024.

		Information on Mining Engineer, Geologist and Manager Furnished in the Annual Return.		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under Current workings- 3.658 Ha Waste Disposal– 5.547 Ha Occupied by plant, buildings, residential, welfare buildings roads& 0.936 Ha Mineralreject, afforestation/unused area: 65.099 Ha Reclaimed/Rehabilitated: 0.80 Ha, Work under pmcp during the year: 0.720 Ha Total – 76.63 Ha	As per AR-2023-24.	
9d	Scrutiny of Annual return on afforestation	WML -2500 sapling OML-500 Saplings	Plantation carried out	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Appears to be correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Iron ore - 13541 tons MMIO: 13000 tons with Fe% 35 to 38%	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Iron Ore: Sale value: -: Rs :1105.07 (Lumps) Sale value: Rs. 1127.49 (Fines) MMIO: Sale value: -: Rs :826.00 (Lumps) Sale value: Rs. 490.54 (Fines) Cost of Production – Rs.667/ton	Appears to be correct.	
9i	Scrutiny of Annual return on fixed assets	3177063.00	Appears to be correct.	

9k	Scrutiny of Annual return on mining machineries	Excavators –3 Trucks – 12 Rock drills -1 Wheel loaders -2 Water tanker-2 Crusher -2	Deployed in the mine.	
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Details of violations observed during current inspection and compliance position of violation pointed out					
Violation			Show cause		
Rule No.	Issued on	Compliance on	Rule No.	Issued on	Compliance on
11(1) of MCDR, 2017	17.01.2025	15.05.2025	-	-	--

(ASHISH KUMAR BEHERA)

Assistant Mining Geologist