

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

File No - MCDR-MiFLOFE/27/2023-BNG-IBM_RO_BNG

Mine Code- 30KAR03123

General

S N	Particulars	Details
1	Name of the Mine	Sanjeevarayana Kote Iron Ore Mine (ML No-2289)
2	Date of Inspection	19.12.2024
3	Name of Inspecting Officer	Shri Ashish Kumar Behera, AMG
4	Name of official accompanying inspection	Shri Ragupathy Raj, 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	Revenue Land- 42.42 Ha (as per CEC), Forest Land- Nil Total Lease area- 42.42 ha (as per CEC),
7	Mine code	30KAR03123
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	Sanjeevarayana Kote
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	02/12/2000 Valid up to 01-12-2050, as per MMDR (Amendment) Act 2015
19	Date of Execution	March 2001
20	Date of Expiry	01/12/2050
21	Date of opening of Mine	NA

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. Ragupathy Raj, Amogha Nursing Home, 3 rd cross, Parvathi Nagar, Ballari, Karnataka – 583101 2 years' Experience DOA: 01/10/2024 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. Vinodh S, Amogha Nursing Home, 3 rd cross, Parvathi Nagar, Ballari, Karnataka – 583101 20 years' Experience DOA: 01/10/2017 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	Mining Engineer-1 Geologist-1 (B.Nagarjuna) 5 years 02 months Experience
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. 279/584/97/BNG/658 Dated 13.11.2020 valid from 2021-2022 to 2025-26.
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	Non-Captive

Exploration

S.N.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	5 RC / DTH Holes		5 holes totaling a depth of 175 Mts, was not done and violation was issued.
1b	Exploration over lease area during the year for Geological axis 1 or 2.	4 RC/ DTH Holes of 120 mts total depth proposed.	5 RC/DTH Holes of 21-22 and 4 RC/DTH Holes of 23-24 are completed	As per proposal for the year of 2023-24 also completed. Total depth of 270 Mts drilled.

1c	Exploration Agency & Expenditure in lakh Rupees during the year	4.50 (around Rs. 1500/meter)	250 mts having 10 Lakh rupees expenditure. seems to be correct.	Seems to be correct.
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	Entire area as per proposal is completed.
1e	Balance reserves as on 01.04.2024	Reserve:- 5584879 Tonne Resource: 33051 Tonne Total: 5617930 Tonne		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 is having one Silicified Iron Ore Band (BMQ) running all along the length of the lease. The strike length of the ore band is 1150m with width varying from 20 to 80m. The average grade of the ore band is 37% Fe. The entire lease now stands explored as on date with recent 9 RC holes drilled during July-Aug 2023.		

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N1664208 N1664308 to E706978 E707325	N1664208 N1664308 to E706978 E707325	Excavation carried out within proposed area of 1.2 Ha.
2b	Separate benches in topsoil, overburden and mineral	Separate benches in Overburden proposed	Separate benches in Overburden maintained	1 bench in OB 5 benches in Ore
2c	Stripping ratio or ore to OB ratio	1:0.28	1:0.437	Backlog development is carried out.
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden/waste generation in m ³	8474 Cum	10500 Cum as per AR-2023-24.	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	One single Pit is developed all along the strike length of the ore body suitable to the type of the deposit wherein segregation of ROM is made involving both manual and mechanized methods owing to the low grade of the BMQ deposit.		

Exploitation

S.N.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
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3a	Number of pits proposed for production	One Pit	One Pit	
3b	Quantity of ROM production proposed	Iron ore- 90000 tonne	Iron ore- 48000 tonne as per the submitted AR-2023-24.	Production is less as there were no sales and less demand for BMQ material in market.
3c	Recovery of salable/usable mineral from ROM production	90 %	90%	
3d	Quantity of mineral reject generation	10796 T	No data furnished in AR.	
3e	Grade of mineral reject generation and threshold value declared	No proposal	32-33 Fe%	32-33 Fe%
3f	Quantity of sub-grade mineral generation	No proposal	No proposal	
3g	Grade of sub-grade mineral generation	No proposal	No proposal	
3h	Manual / Mechanized method adopted for segregating from ROM	No proposal	Manual :50 % & Mechanized: 50%	Manual with deployment of labors by hand sorting & picking. Mechanically using Jaw crusher 50 TPH for Hard lumps (10-40 mm) Manual: 50 % & Mechanized: 50%.
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No proposal	
3j	Provision of drilling & blasting in mineral benches	Proposed	Deep hole drilling & Blasting is done	Wagon drill is used of 110mm dia, Slurry cartridges of 83 mm is used with shock tube detonation system. Spacing-3m, burden-2m and s.g drilling-0.5 m
3k	Provision of mining machineries in mineral benches	Proposed Backhoe-1 Trucks-4 Front end loader-1 Blast hole drill -1 Water tanker -1 (5000 lit) Crusher & Screener -1	Provided as per Mining plan Back Hoe-1 Trucks-3 Front end loader-1 Blast hole drill -1 Water tanker (5000 lit)-01	As per the submitted AR-2023-24.

		Jeep -1 Air compressor - 1	Crusher & Screener - 1 Jeep -1 Air compressor - 1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 mtrs Height 8 mtrs Width	6 mtrs Height 8 mtrs Width	Carried out as per the proposal.
3m	Total area covered under excavation/pits	4.774 Ha	4.774 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.28	1:0.437	Backlog development is carried out.
3o	Total area put in use under different heads at the end of year	Mining – 4.774 Dumps – 6.465 Mineral storage :1.36. Infrastructure-Office, workshop etc :0.21 Roads :1.17 Green Belt- 2.40 Mineral separation plant :0.14 Bio-Diversity: 3.02 Mineral rejection: 0.1 Plantation -1.56 Ha Unused :21.22 Total - 42.42 (In Hectares)	Mining – 4.774 Dumps – 6.465 Mineral storage :1.36. Infrastructure-Office, workshop etc :0.21 Roads :1.17 Green Belt- 2.40 Mineral separation plant :0.14 Bio-Diversity: 3.02 Mineral rejection: 0.1 Plantation -1.56 Ha Unused :21.22 Total - 42.42 (In Hectares)	Within proposed land use limit.
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 90000 2020-21 :90000 2021-22 :90000 2022-23 :90000 2023-24:90000 (in tonnes)	2019-20: 29500 2020-21 :55500 2021-22 :30000 2022-23 :30000 2023-24: 48000 (in tonnes)	
3q	General remarks of inspecting officer on method of mining etc.	The mine is developed as one single open pit all along the strike of the ore body with combination of manual and mechanized methods for segregating the ROM owing to the low-grade Iron Ore deposit of the lease area.		

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 Proposed.	Separate dumping is done.	
4b	Location of topsoil, OB & mineral reject dumps	For OB N1664408 N1664436	For OB N1664408 N1664436	No mineral rejects proposed in previous scheme.

		to E707123 E707092 For mineral reject N1664165 N1664231 to E707565 E707656	to E707123 E707092 For mineral reject N1664165 N1664231 to E707565 E707656	However, -10 mm fines from crusher generated is considered as mineral reject and is stocked separately.
4c	Number of dumps within lease area and outside lease area	Dump within lease area 2 Nos Outside lease area -0		Presently only 1nos active dumps D1, and 1 inactive dump D2 inside the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL		Dumping is Outside UPL
4e	Number of active & alive dumps	1 no.	1 no.	
4f	Number of dead dumps	1 no.	1 no.	
4g	Number of dumps stabilized	No proposal	No proposal	Stabilized by plantation
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	No Proposal	NA	No Proposal
4j	Number of settling ponds	No proposal	No proposal	
4k	Specific comments of inspecting officer on waste dump management	The waste dumps are managed systematically as per the proposals with all the proposed engineering measures for stability the dumps.		

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	Mineral not exhausted from pit
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 Mining Pit is fully exhausted and mineral persists at depth and therefore no proposals for backfilling and reclamation is made during the current plan period.		

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 June 2024 (As per 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)	0.8	0.8	0.8
6d	No. of saplings planted during the year	1500	2500	1500
6e	Cumulative no. of plants	Total 27500 nos. of tree planted.		-
6f	Any other specific method of rehabilitation	No proposal	Terracing and Plantation on	
6g	Cost incurred on watch & care during the year	2.0 L	2.0 L	2.0 L
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	No proposal	No proposal	No proposal
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	No proposal	No proposal	No proposal
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	No proposal	No proposal	No proposal
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	No proposal	No proposal	No proposal
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No proposal	No proposal	No proposal
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	No proposal	No proposal	No proposal

6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	No proposal	No proposal	No proposal
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Nil	-
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring (core zone & buffer zone) Proposed	Environmental monitoring (core zone & buffer zone) Done	Air monitoring stations Core zone- 3 Buffer -3 Water monitoring Core zone- 1 Buffer -1 Noise monitoring Core zone- 5 Buffer -3 All the environmental parameters were observed within 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.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wisesorting within lease area	Grade wise sorting proposed within the lease area.	Grade wise sorting done within the lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Proposed Manual: 50% Mechanical:50%	Manual with deployment of labors by hand sorting & picking. Mechanically using Jaw crusher 50 TPH for Hard lumps (10-40 mm) Manual: 50% Mechanical:50%	Due to low grade of the Iron Ore deposit, along with mechanized sorting, manual sorting was also proposed to achieve the salable ore production of desirable grade and is accordingly carried out.
7c	Different grade of mineral sorted outat mines	No proposal	Lumps(35-38)Fe%	
7d	Any beneficiation process at mines	No proposal	NA	NA

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	In lieu of low grade of the Iron Ore deposit of the lease, along with mechanized sorting, manual sorting was also proposed to achieve the salable ore production of desirable grade and is accordingly carried out thereby taking care of Mineral conservation aspects.
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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)	Proposed	Yes, done as per approved MP	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use		NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)		NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	0.8 Ha 1500 No's	0.8 Ha 2500 nos within Mining lease area.	As per the submitted AR-2023-24.
8g	Survival rate	30%	30%	As per the submitted AR-2023-24.
8h	Water sprinkling on roads to control airborne dust	Water tanker - 01	Water tanker - 01	01 water tankers of 5000 L capacity used for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around the mines is satisfactorily maintained with proposed plantation over the inactive part of the dumps, avenue plantation and plantation outside the ML.		

Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Return 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	Nandan Reddy -Mining Manager, Vinodh S - Mining Engineer, Basavaraju -Foremen Nagarjuna- Geologist Information on Mining Engineer, Geologist and Manager Furnished in the Annual Return.	The same were appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining - 4.774 Dumps - 6.456 Occupied by plant, buildings, residential, welfare buildings and roads: 1.520 Mineral storage, afforestation, green belt, Bio-diversity, Mineral rejects: 9.240 work done PMCP: 0.400	Within proposed land use.	
9d	Scrutiny of Annual return on afforestation	2500 WLA	Plantation carried out	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	0 Tons mineral reject (fines) was produced and stacked (33-35 %Fe)	Appears to be correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM :4000 (35-38 %Fe)	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	As per Annual returns Ex.Mine price : 817.83 Rs & 456.80 Rs Production cost: 628 Rs/ton	Appears to be correct.	
9i	Scrutiny of Annual return on fixed assets	1632239 Rs	Appears to be correct.	
9k	Scrutiny of Annual return on mining machineries	Excavator -1 Trucks -3 Loader -1 Blast hole drill-1 Crusher -1 (50 Tph) Water tanker -1(5000 lit)	Deployed in the mine.	

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	--	-	-	--

(ASHISH KUMAR BEHERA)

Assistant Mining Geologist