

I/27472/2024

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/413/BNG

Mine code : 30KAR03123

- (i) Name of the Inspecting : **S21**) **H M Shivakumar**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Lalam Ravi ramu naidu -Mining Engineer,Basavaraju -Fo
Official with
Designation
- (iv) Date of Inspection : 28/12/2023
- (v) Prev.inspection date : 18/01/2023

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SANJEEVARAYANA KOTE**
- (b) **Registration NO.** : **IBM/4514/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : SANJEEVARAYANA KOTE
Taluka : BELLARY
Post office : BELLARY
Pin Code :
FAX No. : 08392-277845 /08392267666,9
E-mail : apmines@yahoo.co.in
Phone : 08392-267666/274282,083922'
- (f) Police Station : BELLARY RURAL
- (g) First opening date : 01/09/2001
- (h) Weekly day of rest : SUN
2. Address for : 11th ward, GADIGI PALACE,
correspondance : CAR STREET,
BELLARY,KARNATAKA-583 101.
3. (a) Lease Number : KAR1200
- (b) Lease area : 42.89
- (c) Period of lease : 50
- (d) Date of Expiry : 01/12/2050
4. Mineral worked : IRON ORE Main

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5. Name and Address of the

Lessee : ALLUM PRASHANT
 GADIGI PALACE, CAR STREET,
 BELLARY, BELLARY KARNATAKA
 Phone:08392-274282/ 267666
 FAX :08392-277845 /267666

Owner : ALLUM PRASHANT
 GADIGI PALACE, CAR STREET,
 BELLARY, BELLARY KARNATAKA
 Phone: 08392-274282
 FAX : 08392-267666

Agent : Basavaraj
 Gadigi Palace Car street
 Ballari BELLARY KARNATAKA
 Phone: 08392-267666
 FAX : 08392-267666

Geologist

Name : B NAGARJUNA, Full Time
 Qualification :
 Appointment/ :
 Termination date

Manager

Name : L RAVI RAMU NAIDU
 Qualification : FCC
 Appointment/ : 01/04/2021
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	27/01/1998
		Mining Scheme rule 12 MCDR1988	31/03/2006
		Mining Scheme rule 12 MCDR1988	14/06/2013
		Mining Scheme rule 12 MCDR1988	18/04/2016
		MP review under 17(1) MCR 2016	13/11/2020

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5 RC / DTH Holes	5 RC/DTH Holes of 21-22 And 4 RC/DTH Holes of 23-24 are completed in July-Aug 2023.	Since the proposed exploration is carried out during Aug 2023 including proposals of 2023-24, no violations are pointed out.
1b	Exploration over lease area for geological axis 1 or 2			The proposals for the year 23-24 also completed including the backlog of 2022-2023.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Rs. 4.05 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2		NIL	The entire lease now stands explored as on date with recent 9 RC holes drilled during July-Aug 2023.
1e	Balance reserve as on 01/04/20		5,632879 tonnes.	As per the AR-2022-23.
1f	General remarks of inspecting officers 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 :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	N1664208 N 1664308 to E706987 E707326	N1664178 N 1664256 to E706864 E707315	Development carried out within the proposed grid intervals.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in Overburden proposed	Separate benches in Overburden maintained.	1 bench in OB & 2 Benches in Ore.
2c	Stripping ratio or ore to OB ratio	1.0.17	1:0.375	Reportedly backlog development is carried out.
2d	Quantity of topsoil generation in m3	No proposal	NA	No generation of top soil, working within broken up area.
2e	Quantity of overburden generation in m3	5094 cubic meters	11250 Cubic metres	In the Annual returns, it is reported in Tonnes and discrepancies is pointed out in SCN.
2f	General remarks of inspecting officers 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:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	1100mm x 50m
3b	Quantity of ROM mineral production proposed	Iron ore-90000 t	Iron ore-30000 t	Violation pointed out for not achieving the proposed production.
3c	Recovery of sailable/usable mineral from ROM production	90%-mineral 10% -waste	90%-mineral 10% -waste	As per proposals.

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3d	Quantity of mineral reject generation	3599 T	3600T	Stocked separately (crushed fines 0-10mm size is mineral rejects 33-35Fe %)
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	33-35 Fe%	33-35 Fe%
3f	Quantity of sub grade mineral generation.	No proposal	NIL	
3g	Grade of sub grade mineral generation	No proposal	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Both manual and mechanized.	Manual :50 % & Mechanized: 50%	Manual with deployment of laborers 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 and carried out for sub grade mineral and rejects.	No proposal	NIL	
3j	Provision of drilling and 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 -3, burden 2 m and sub-grade drilling-0.5 m
3k	Provision of mining machineries in mineral benches	Proposed Excavator-1 Trucks-4 Wheel loader-1 Jackhammer -1 Water tanker -1 (5000 ltrs) Crusher & Screener -1 Jeep -1	Provided as per Mining plan Excavator-1 Trucks-4 Wheel loader-1 Jackhammer -1 Water tanker (5000 ltrs)-01 Crusher & Screener -1 Jeep -1	The proposed & reported machineries were found deployed on the day of inspection.

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6-8 Mtrs Height +8 mtrs Width	6 mtrs Height 8 mtrs Width	The height of the benches between sections F-F' to H-H' are exceeding the proposed height and width. Violation issued.
3m	Total area covered under excavation/pits	4.596Ha	4.596Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1.0.17	1:0.375	Backlog development is carried out and thus change in stripping ratio.
3o	Total area put in use under different heads at the end of year	Mining - 4.596 Dumps - 5.304 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 :22.56 Total - 42.42 (In Hectres)	Mining - 4.596 Dumps - 5.304 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 :22.56 Total - 42.42 (In Hectares)	
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 90000 2019-20: 90000 2020-21 :90000 2021-22 :90000 2022-23 :90000 (in tonnes)	2018-19: 4000 2019-20: 29500 2020-21 :55500 2021-22 :30000 2022-23 :30000 (in tonnes)	Violation issued for not achieving the proposed production.

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3q	General remarks of inspecting officers 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.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for OB Proposed.	Separate dumping is done.	
4b	Location of topsoil, OB and mineral reject dumps	For OB N1664403 N 1664433 to E707078 E707159 For mineral reject N1664175 N 1664242 to E707570 E707653	For OB N1664380 N 1664352 to E707052 E707090 For mineral reject N1664160 N 1664230to E707520 E707643	No mineral rejects proposed in previous scheme. However, -10 mm fines from crusher are mineral reject and 3600 Tonnes is produced during the year and cumulatively 25600 is stocked separately.
4c	Number of dumps within lease area and outside of lease area	Dump within lease area 2 Nos Outside lease area -0	Presently only One active dump 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 and alive dumps.	1	1	
4f	Number of dead dumps.	1	1	
4g	Number of dumps established.	No proposal	NIL	Stabilized by plantation

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4h	Whether Retaining wall or garland drain all along dumps are there.	YES	YES	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall 200 mtrs Garland drains 220mtrs	Retaining wall 200 mtrs Garland drains 220mtrs	Completed as per proposal.
4j	Number of settling ponds	No proposal	NIL	
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:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	NA	Mineral persists at depth and hence no proposal
5b	Area under backfilling of mined out area	No proposal	NA	Mineral persists at depth and hence no proposal
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NA	Mineral persists at depth and hence no proposal
5d	Total area fully reclaimed and rehabilitated	No proposal	NA	Mineral persists at depth and hence no proposal

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5e	General remarks of inspecting officers on backfilling and 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.
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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP to be submitted by 1st July 2023.	PMCP for the year 22-23 is submitted. 07 July 2023 (As per IBM Mail -Latest format)	
6b	Area available for rehabilitation (ha) .	No proposal	NIL	
6c	afforestation done (ha).	0.8	0.8	
6d	No. of saplings planted during the year	1500	2000 in WML 500 OML	-
6e	Cumulative no .of plants	19000	25000	-
6f	Any other method of rehabilitation	No proposal	Terracing and Plantation on the slope of dumps	
6g	Cost incurred on watch and care during the year	2.0 L	2.0 L	Appears to be correct.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	NIL	

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	NIL

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6p	Compliance of environmental monitoring (core zone and 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 remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			All the PMCP proposals made are carried out and complied with.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting 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 for 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 out at mines.	No proposal	Lumps (35-38) Fe%	
7d	Any beneficiation process at mines	No proposal	NA	NA

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7e	General remarks of inspecting officer on Mineral conservation and 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:

Sl.No.	Item	Propasals	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.
8b	Concurrent use or storage of topsoil	No proposal	NA	Earlier generated topsoil has been utilized for plantation
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	No proposal	NA	

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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 and additional plantation done (Rule 41)	0.8 Ha 1500 No's	0.8 Ha 2000 no's within Mining lease area. 500 no's outside mining lease area.	Appears to be correct.
8g	Survival rate	30%	30%	Appears to be correct.
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:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to: 08-12-2023 A.R. Submitted up to: 28-06-2023.		

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- 9b Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager Lalam Ravi Ramu Naidu - Mining Engineer/ Manager Basavaraju - Foremen B. Nagarjuna- Geologist The reported officials were present on the day of inspection.
- 9c Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. Mining - 4.596 Dumps - 5.304 Mineral storage :1.36. Infrastructure , Offices, work shop etc.: 0.350 mineral storage and afforestation: 9.610 work done PMCP: 0.400
- 9d Scrutiny of Annual return on afforestation WML :2000 OML :500 Appears to be correct.
- 9e Scrutiny of Annual return on mineral reject generation (Grade and quantity) 3600 MT mineral reject (fines) was produced and stacked (33-35 %Fe) Verified and found to be in order.
- 9f Scrutiny of Annual return on ROM stock and/or graded ore ROM :3000 (35-38 %Fe) Appears to be correct as inspection was in the month of Dec-2023.
- 9g Scrutiny of Annual return on sale value, Ex. Mine price and production cost As per Annual returns Sale value: Rs. 700.00 Ex. Mine price: Rs. 778.79 Production cost: Rs.662 per ton Discrepancies observed in EX-Mine price reporting . Violation issued.
- 9h Scrutiny of Annual return on fixed assets Rs.1268327

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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)	The reported machineries were found deployed on the day of inspection.
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17 Rule 11(1)	06/02/2024		MCDR17 Rule 45(7)	06/02/2024	08/03/2024
MCDR17 Rule 45(7)(a)	06/02/2024	08/03/2024			

Date :**(H M Shivakumar)**

Indian Bureau of Mines