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

File No- MCDR-MiFL0FE/30/2023-BNG-IBM_RO_BNG

Mine Code- 30KAR03166

General

SN	Particulars	Details
1	Name of the Mine	Dharmapura Iron Ore Mine (ML No-2543)
2	Date of Inspection	04.10.2024
3	Name of Inspecting Officer	Shri Ashok Kumar Pany, AME
4	Name of official accompanying inspection	Shri R. Shivananda Reddy, Mines Manager
5	Last date of Inspection & Officer	27.12.2023 Shri Sandeep Kumar Singh, SR ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land- 10.31 ha (as per CEC), 10.00 (as per Lease Deed) Non Forest Land- Nil Total Lease area- 10.31 ha (as per CEC), 10.00 (as per Lease Deed)
7	Mine code	30KAR03166
8	IBM Registration Number under rule 45 of MCDR, 2017	IBM/372/2011
9	Name of the lessee, Address, phone, email and fax number	Shri U. Krishna Prasad (Legal Representative) Sri. V.N.K Menon No.6 KHB Colony, Sandur, Ballari, Karnataka-583119 Email-vnk2543@gmail.com
10	Village	Dharmapura
11	Taluka/Mandal	Sandur
12	District	Ballari
13	Pin code	583119
14	State	Karnataka
15	Post office	Sandur
16	Nearest police station	Sandur
17	Nearest Railway station	Yeshwanthanagar & Hosapete
18	Date of Grant of Mining Lease	22.03.2007
19	Date of Execution	22.03.2007
20	Date of Expiry	21.03.2057
21	Date of opening of Mine	16.05.2007
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	NA
24	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri R. Shivananda Reddy, Laxminarayan Nilaya, Venkateshwara swamy temple road, Smiore colony, Sandur- 583119 Ph-9448395508, Email-reddyvnk2@gmail.com, Date of Appointment:18.02.2010
25	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Yallappa, B.E. Mining Engg, Smiore colony, Sandur- 583119 Ph- 9448286864/9886943793 Email-yallappaky123@gmail.com Date of Appointment: 13/08/2024 Experience:7 years
26	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. Konaki Rajashekar, M.SC Geology, Smiore colony, Sandur- 583119 Ph- 9448286865/9966023524 Email-rajasekhar.k.geo@gmail.com Date of Appointment: 13.03.2024 Experience: 5 years
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. 279/869/2005/BNG dated 06.06.2023 for the period 2023-24 to 2026-27
28	Mineral(s) granted in lease and proved for mining	Iron
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	Nil	NA	No	Backlog	from

				previous year.
1b	Exploration over lease area during the year for Geological axis 1 or 2.	Nil	NA	No exploration proposal during the year.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved MMP:- G1-6.04 Ha, Non-mineralised area- 4.27 Ha	G1-6.04 Ha, Non-mineralised area-4.27 Ha	The mineralized area has been explored under G1 Level.
1e	Balance reserves as on 01.04.2024	Reserve-: 1814075 T Resource: 1532046 T Total: 3346121 Toni	Гоппе	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 hilly in terrain with only one Ore band of Iron The Iron Ore band is having a strike length of 320m with averwidth 170m and average depth of 26.9 m. The grade of Iron varies from 58% to 65 % Fe. The potential mineralized area 6.04 has been explored under G1 level and no further explora proposal.		gth of 320m with average m. The grade of Iron Ore al mineralized area 6.04 ha

Development

S.N.	Item	Proposals	Actual work	Remarks	
2a	Location of development w.r.t.	N 1666350 to	N 1666350 to	Excavation carried out	
	lease area	1666500,	1666500,	within proposed area.	
		E 662442 to 662550	E 662442 to		
			662550		
2b	Separate benches in topsoil,	No proposal for			
	overburden and mineral	generation of top			
		soil. Separate	_		
		Benches in	Carried out		
		overburden and			
		mineral is			
		proposed			
2c	Stripping ratio or ore to OB ratio	1: 0.07 (tonne/Cum)			
- 1			(tonne/Cum)		
2d	Quantity of topsoil generation in	NI;1	Nil		
	m ³	Nil			
2e	Quantity of overburden/waste generation in m ³	6512.27 Cum	6773 Cum		
2f	General remarks of inspecting	The open cast mine is developed in single pit operation with			
	officer on development of pit	regular benches. The type of deposit is bedded, stratiform and			
	w.r.t. type of deposit etc.		9	ne adopted method is	
		suitable to the type of the deposit.			

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
		(2023-24)	(2023-24)	

3a	Number of pits proposed for production	One Pit	One Pit	
3b	Quantity of ROM production proposed	100000 tonne	100000 tonne	
3c	Recovery of salable/usable mineral from ROM production	100000 tonne (100% of ROM)	100000 tonne (100% of ROM)	
3d	Quantity of mineral reject generation	No proposal of generation of Mineral rejects.	Nil	
3e	Grade of mineral reject generation and threshold value declared	Threshold value- +45% Fe Cutoff grade- +52% Fe	As per proposal	
3f	Quantity of sub-grade mineral generation	No proposal of generation of subgrade.	Nil	
3g	Grade of sub-grade mineral generation	No proposal of generation of subgrade.	Nil	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	Deployed 250TPH Crusher & Screening for segregating from ROM
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	No drilling blasting carried out during the year	Drilling, blasting is proposed for incidental hard rock formation.
3k	Provision of mining machineries in mineral benches	Excavator – 1.6 Cum Loader- 2.5 Cum Dumper – 30 tonne	Excavator – 1.4 Cum Loader- 2.5 Cum Dumper – 25 tonne	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height-8 m, Width- 3.5 m	Bench Height-8 m, Width- 3.5 m	The Lessee obtained relaxation from DGMS for bench width.
3m	Total area covered under excavation/pits	4.53 ha at the end of 2023-24	4.53 ha	Within proposed area under mining.
3n	Ore to OB ratio for the pit/mine during the year	1: 0.07	1: 0.07	

		Ore- 100000 tonne	Ore- 100000 tonne		
		Waste- 6512.27 Cum	Waste- 6773 Cum		
Зо	Total area put in use under	Mining – 4.53 Ha.	Mining – 4.53 Ha.	Within	
	different heads at the end of year	Dumps – 2.0 Ha.	Dumps – 2.0 Ha.	proposed land use limit	
		Infrastructure/Road – 0.71	Infrastructure/Road – 0.71		
		На	Total- 7.24 Ha		
		Total- 7.24 Ha			
Зр	Production of ROM	2019-20-100000 Tonne	2019-20-99996 Tonne		
	mineral during last five-	2020-21- 100000 Tonne	2020-21- 99996 Tonne		
	year period, as applicable	2021-22 -100000 Tonne	2021-22 - 97850 Tonne		
		2022-23-100000 Tonne	2022-23- 100000 Tonne		
		2023-24- 100000 Tonne	2023-24-100000 Tonne		
3q	General remarks of	Mechanized opencast m	ining operation is carried o	ut with shovel –	
	inspecting officer on	dumper combination. Th	e lessee obtained relaxation	from DGMS for	
	method of mining etc.	reduction of bench width in final pit profile. The stacking mineral has			
		been carried out in scattered manner extending near to working face. The			
		deviation pointed out to lessee vide this office violation letter dated			
		22.10.2024.			

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 of OB/waste proposed	Carried out	No proposal of generation of topsoil/mineral rejects.
4b	Location of topsoil, OB & mineral reject dumps	Temporary Waste dumping near ID3 Location: N1666438 to 1666490 E 662645 to 6626475	Temporary Waste dumping near ID3 Location: N1666438 to 1666490 E 662645 to 6626475	Waste dumping carried out within proposed area.
4c	Number of dumps within lease area and outside lease area	03 Nos. – with No dumps outs		
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	2 nos. (ID-1&2) - Outside UPL 1 nos. (ID-3) -Within UPL		
4e	Number of active & alive dumps	2 nos. of active dump	2 nos. of active dump	
4f	Number of dead dumps	01	01	
4g	Number of dumps stabilized	01	01	
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	Retaining wall- Nil, Garland Drain- 335 m proposed during the year 2023-24	Garland Drain- 335 m has been constructed	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			the proposed location. vaste dump protective

r	measures has been carried out.
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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.	The mineral has not back filling during the		n quarry and no proposal of

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.	To be submitted before 1 st July	Submitted	
6b	Area available for rehabilitation (ha)	No proposal	Nil	
6c	Afforestation done (ha)	0.23 ha	0.23 ha	
6d	No. of saplings planted during the year	400 nos.	400 nos.	
6e	Cumulative no. of plants	Total 2136 nos. of	f tree planted.	-
6f	Any other specific method of rehabilitation	No proposal	Nil	-
6g	Cost incurred on watch & care during the year	Rs. 100000.00	Rs. 150000.00	As reported by lessee during inspection.
6h	Compliance on reclamation and rehabilitation by backfilling (i)Voids available for backfilling (L X B X D).	No proposal	Nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	No proposal	Nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	No proposal	Nil	-

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	No proposal	Nil	-
61	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 rehabilitated (ha) Method of rehabilitation	No proposal	Nil	-
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Nil	-
6р	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring of Noise, Air and Ground water quality proposed	Monitoring carried out quarterly.	Within permissible limit.
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.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area	Grade wise sorting within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines	60% to below 62% Fe (Lumps), 62% to below 65% Fe (Lumps), 65% Fe & above, 58% to below 60% Fe (Fines), 60% to below 62% Fe (Fines), 62% to below 65% Fe (Fines)	60% to below 62% Fe (Lumps), 62% to below 65% Fe (Lumps), 65% Fe & above, 58% to below 60% Fe (Fines), 60% to below 62% Fe (Fines), 62% to below 65% Fe (Fines)	
7d	Any beneficiation process at mines	No proposal	No Beneficiation plant exists within lease.	Dry Crushing & Screening (250TPH)

7e	General remarks of inspecting officer	No Beneficiation plant installed in the mine and only screening
	on Mineral conservation &	and crushing is carried out.
	beneficiation issues	

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 waste 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)	2136 Nos. of cumulative plantation up to 31.03.2024		
8g	Survival rate	75%	70%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to suppress the dust	Carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The aesthetic beau	ty in & around the mi	ne area is maintained.

Compliance of Rule 45

S.N.	Item	COMM	Remarks	
9a	Status of submission of	Monthly and Annual Return submitted within due		
	Monthly and Annual returns	time.		
S.N.	Item	Details Given in AR.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for	Information on Mining	The same were	The
	information on Mining	Engineer, Geologist and	appointed.	information
	Engineer, Geologist and	Manager Furnished in		on exploration
	Manager	the Annual Return.		in Sl. No. 1(i)
				of PART-V is
				not furnished

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit – 4.53 Ha Dump – 2.0 Ha Infrastructure area- 0.71	Within proposed land use.	correctly and the same is pointed out to lessee through show cause notice dated 22.10.2024.
9d	Scrutiny of Annual return on afforestation	400 Nos. within lease area	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	ROM closing stock- Nil Grade wise stock- 45% to below 51% Fe (Lump)-52845.52tonne 60% to below 62% Fe (Lump)-13200.00tonne 62% to below 65% Fe (Lump)-9700.00tonne 58% to below 60% Fe (Fines)- 4000.00tonne 60% to below 62% Fe (Fines)- 14819.07tonne 62% to below 65% Fe (Fines)- 22300.64tonne	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production Rs. 2130.84 Ex-mine price 58% to below 60% Fe (Lump)- Rs.4000.00 60% to below 62% Fe (Lump)- Rs.3960.83 62% to below 65% Fe (Lump)- Rs.5547.50 65% Fe and above-Rs. 6400.00 58% to below 60% Fe (Fines)- Rs.3487.41 60% to below 62% Fe (Fines)- Rs.3999.05 62% to below 65% Fe (Fines)- Rs.5967.37	Appears to be correct.	
9i	Scrutiny of Annual return on fixed assets	Rs. 1020508.00	Appears to be correct.	
9k	Scrutiny of Annual return on mining machineries	Shovel- 1.4 Cum (2 nos.) Loader-2.5 Cum (1 nos.) Dumper- 25 Tonne (3 nos.) Water Tanker- 8 KL (1 nos.)	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	22.10.2024		45(7) of MCDR, 2017	22.10.2024	

(ASHOK KUMAR PANY)
Assistant Mining Engineer