MCDR-MIFLOFE/2/2023-BNG-IBM_RO_BNG INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

1/30308/2024

MCDR inspection REPORT

Bangalore regional office

	Mine :	file No : KNT/BLR/FE/3	95,	/BNG Mine code : 30KAR03104
	(i)	Name of the Inspecting Officer and ID No.	:	S47) DR. Sudhakara T.L
	(ii)	Designation	:	Senior Mining Geologist
	(iii)	Accompaning mine Official with Designation	:	Shanmukhappa Mandal (Mine Agent), Amartaluri V. Rao (
	(iv)	Date of Inspection	:	28/12/2023
	(v)	Prev.inspection date	:	14/03/2023
		PAF	۲T-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	DHARMAPURI
	(b)	Registration NO.	:	IBM/178/2011
	(c) (d) (e) (f) (g)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station First opening date	: : : : : : : : : : : : : : : : : : :	A Other than Fully Mech. Opencast KARNATAKA BELLARY RAMGAD SANDUR SANDUR 583119 08395-260676 vescosdr@yahoo.com 08395-260121 SANDUR
	(g) (h)	Weekly day of rest		SUN
2.	Addre	ess for espondance		M/S.VEERABHADRAPPA SANGAPPA & COMPANY 2-138, BELLARY ROAD, SANDUR - 583119
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	KAR1204 51 50 16/02/2051
4.	Miner	ral worked	:	IRON ORE Main

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5	Name and Address of	t ho	
5.	Lessee	:	VEERABHADRAPPA SANGAPPA & COMPANY
			# 2/138, BELLARY ROAD,
			HOSPET, BELLARY KARNATAKA
			Phone:08395-260120
			FAX :08395-260676
	Owner	:	K S VINAYAK NOMINATED OWNER
			VESCO HOUSE 2/138, BELLARY
			RD SANDUR BELLARY KARNATAKA
			Phone: 08395260183
			FAX :
	Agent	:	Shanmukhappa Mandal
			VESCO House, 2/138, Ballari
			road, Sandur BELLARY KARNATAKA
			Phone: 9900010433
			FAX :
	Mining Enginee	r	
	Name	:	SUBRAMANI M,Full Time
	Qualification		-
	Appointment/		
	Termination da		01/00/2022
	Geologist		
	Name	:	SATISH K CHOUGULE,Full Time
	Qualification	:	M.Sc APPLIED GEOLOGY
	Appointment/	:	
	Termination da	ate	
	Manager		
	Name	:	Amartaluri V. Rao
	Qualification	:	Dip. in Mining, Ist FCMM
		:	15/09/2009
	Termination da	ate	
6	Date of approval of	Mini	ng : Fresh under rule 22 MCR1960 20/03/1991
0.	Plan/Scheme of Minir		Mining Scheme rule 12 MCDR1988 05/06/1997
			Mining Scheme rule 12 MCDR1988 08/04/2002
			Mining Scheme rule 12 MCDR1988 20/10/2005 Renewal under rule 24 MCR1960 24/05/2013
			MP modif under MCR 1960 24/05/2015
			MP review under 17(1) MCR 2016 10/11/2016
			MP review under $17(1)$ MCR 2016 $23/11/2021$

MP review under 17(1) MCR 2016 10/11/2010 MP review under 17(1) MCR 2016 23/11/2021 PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2022-23 04 core bore holes with a total metearge 240 meters	07 Boreholes 260 mtrs	63 core boreholes were drilled to a total meterage of 2954m from 1992-93 to 2022-23.
1b	Exploration over lease area for geological axis 1 or 2	G2-1.65 Ha	G1-16.81 Ha, G2-1.65 Ha	Actual figures given as per approved Mining plan. During inspection lessee reported that 16.81ha area has been converted under and 1.65ha under G2.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Drilled by Geo-tech Exploration, Nagpur Expenditure: 13.45 Lakhs	
ld	Balance area to be explored to bring Geological axis in 1 or 2	G2-1.65 Ha G4-2.96 Ha	G2-1.65 Ha	Exploration work is under progress.
le	Balance reserve as on 01/04/20		7,975,862 MT as on 31.03.2023	As per Annual returns submitted for FY 2022-23
lf	General remarks of inspecting officers on geology, exploration etc			In the mineralized area, lessee has carried out 63no. of core bores holes with a total meterage of 2594m. Exploration is under progress.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1667290	N 1667135 to 1667285 E 661480 to 662625	Development is done within the proposed grid

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in mineral proposed. No separate benches proposed for overburden.	Separate benches in mineral maintained.	
2c	Stripping ratio or ore to OB ratio	1: 0.16 OB: 40,841.00 m3 73,514.00 tonnes Ore: 4,60,000 tonnes	1: 0.03 OB: 7255.56.22 m3 13060.00 tonnes Ore: 4,60,000 tonnes	Proposed stripping ratio not achieved, violation pointed out under Rule 11(1) of MCDR, 2017.
2d	Quantity of topsoil generation in m3	No proposal	Nil	There is no top soil generation as the mining work is carried out within the broken up area.
2e	Quantity of overburden generation in m3	40,841.00 m3 73,514.00 tonnes	7255.56.22 m3 13060.00 tonnes	Proposed OB generation is not achieved, violation pointed out under Rule 11(1) of MCDR, 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Lessee has carried out the development very systematically within the proposed grid limit. However, proposed OB is not achieved, hence, , violation pointed out under Rule 11(1) of MCDR, 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	1 Pit proposed	Working carried out in 1 pit only	Approximate dimension of the proposed production
				Length- 341m, Width-132m, Depth-50 m
3b	Quantity of ROM mineral production proposed	4,60,000 tonnes	4,60,000 tonnes	Proposed quantity achieved.
3c	Recovery of sailable/usable mineral from ROM production	95%	100%	Lessee team stated that anticipated intercalated waste not encountered during mining and the recovery is 100%.
3d	Quantity of mineral reject generation	7524.00 tons	7524.00 tons generated which is blended with high grade ore & sold.	Lessee team stated that Mineral reject on ore benches is occurred as a small reefs & bands which cannot be separated & it is mixed with high grade ore while excavation and blended.
3e	Grade of mineral rejects generation and threshold value declared.	+35 to -45% Fe	+35 to -45% Fe	
3f	Quantity of sub grade mineral generation.	7524.00 tons	7524.00 tons generated which is blended with high grade ore & sold.	Lessee has consumed the sub- grade ore by blending with high grade iron ore.
3g	Grade of sub grade mineral generation	+35 to -45% Fe	+35 to -45% Fe	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for segregating from ROM.	Mechanized method adopted for segregating from ROM.	Dry Crushing (100 TPH) & Screening (250TPH)
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	NIL	

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3ј	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed in mineral benches.	5% volume of production & development is used for drilling & blasting.	10% of the total volume proposed for drilling & blasting.
3k	Provision of mining machineries in mineral benches	Hydraulic excavator & tipper combination proposed	Combination of Hydraulic excavator & tipper adopted.	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height- 7.5m, Width- 8 to 10m	YES Height- 7.5m, Width- 8 to 10m	
3m	Total area covered under excavation/pits	Proposal of 12.98 Ha at the end of reporting year.	Achieved 12.98 ha at the end of reporting year.	As per Approved RMP, dtd: 23.11.2021 & Annual Returns for FY 2022-23.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.16 OB: 40,841.00 m3 73,514.00 tonnes Ore: 4,60,000 tonnes	1: 0.03 OB: 7255.56.22 m3 13060.00 tonnes Ore: 4,60,000 tonnes	Proposed OB generation is not achieved, violation pointed out under Rule 11(1) of MCDR, 2017.
30	Total area put in use under different heads at the end of year	Area in Ha Pit- 12.98 Ha Dump- 4.15 Ha Green belt- 1.13 Ha Others- 0.20 Ha	Area in Ha Pit- 12.98 Ha Dump- 4.00 Ha Green belt-1.13Ha Others- 0.35 Ha	As per Annual Returns for FY 2022-23
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 4,60,000 2019-20: 4,60,000 2020-21: 4,60,000 2021-22: 4,60,000 2022-23: 4,60,000	2018-19: Nil 2019-20: Nil 2020-21: Nil 2021-22: Nil 2022-23: 4,60,000	As per Annual Returns

3q General remarks of inspecting officers on method of mining etc. Lessee has carried out mechanized mining as proposed. Proposed production quantity for the year 2022-23 has been achieved and Mineral reject generated has been consumed by blending with high grade iron ore.

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 for OB carried out	There is no top soil generation as entire mining area is broken up area
4b	Location of topsoil, OB and mineral reject dumps	Top Soil No Proposal Dumping N 1667120- 1667290 E 661480- 662660 Mineral Reject : 7524.00 tons	Top Soil Nil Dumping N 1667135-1667285 E 661480-662625 Mineral Reject : Blended with high grade iron ore.	Dumping of waste is done within the marked area and there is no top soil generation.
4c	Number of dumps within lease area and outside of lease area	WML : 1 dump OML : Nil	WML : 1 dump OML : Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB Dump proposed outside the UPL	Outside UPL	NW side 80 to 100 m away from UPL
4e	Number of active and alive dumps.	1 No'	1 No'	There is only one active dump.
4f	Number of dead dumps.	No proposal	NIL	
4g	Number of dumps established.	No proposal	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Retaining wall & garland drain are constructed all along the dumps.	Existing Toe wall : 845m GD : 780m Constructed in the past as per R&R and it is maintained.

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4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: 150m Garland drain: 25m		154m 25m	Proposal of construction of Toe wall and garland drain of 2022-23 has been completed during the year 2023-24.
4j	Number of settling ponds	No Proposal	NIL		Existing GCD : 3 Nos. LBCD : 2 Nos. SMCD : 1 No. SST : 2 No's. Constructed in the past as per R &R & it is maintained.
4k	Specific comments of inspecting officer on waste dump management				Lessee has carried out dumping at the proposed location and dumping has been done systematically. Lessee has constructed Retaining wall and garland drain along the toe of the waste dump.

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	Nil	Mineral is not exhausted for backfilling
5b	Area under backfilling of mined out area	No proposal	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	
5d	Total area fully reclaimed and rehabilitated	No proposal	NIL	

5e General remarks Mineral is not of inspecting exhausted in the officers on pit, there is no backfilling and scope for carrying reclamation etc. out back filling in the existing pit.

Progressive Mine Clousre Plan:

Sl.No. Propasals Actual work Remarks Item Submitted within бa Whether Annual PMCP report to PMCP report for the FY report on PMCP be submitted 2022-23 is submitted. stipulated time submitted on by 1st July (26.06.2023)time and every year correctly. Rule 23 E(2). 6b Area available No proposal Nil 1.36 Ha Part of for active dump is rehabilitation stabilized by coir (ha) . mat in the previous years. 0.37 Ha бc afforestation NIL Lessee team done (ha). reported that, due to insufficient place for plantation inside ML, plantation of 0.20 Ha area was taken at Bandri Govt School. 6d No. of saplings 925 Seedlings NIL 284 no's of planted during plantation taken the year at outside ML at Bandri Govt. School бe Cumulative no 2030 no's of seedlings Inside ML .of plants 58000 no's of Agave As on 30.11.2023 suckers 6f Any other method No proposal NIL of rehabilitation Cost incurred on Rs 92,500.00 Cost includes Rs 16,520.00 6g plantation of watch and care during the year inside & outside ML area.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No	proposal	NIL
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)Afforestati on on 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
бп	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No	proposal	NIL
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No	proposal	NIL

бр	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in Core & Buffer zone	Environmental monitoring carried out in Core zone & Buffer zone by Cosmo Laboratory Ballari.	Nov-2023 Buffer Zone Air-(So2-14.72, No2-15.44 µ/cum) Pm10-53.78 Pm2.5- 15.44
				G. Water- (TDS-2960 mg/l)
				S. Water- (TDS-508 mg/l)
				Noise-dB(A) Max'- 55.92 Min'- 48.87
				Core Zone Air-(So2-14.54, No2-17.04 µ/cum) Pm10-52.04 Pm2.5- 15.38
бд	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Lessee has regularly monitoring the air, water and noise inside and outside the lease. Parameters are within the permissible limit. Due to lack of place for plantation within the lease, lessee has carried out plantation in the Govt. school located at Bandri village.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed in the lease area	Grade wise sorting done in the lease area.	Fines & Lumps are dispatched after sorting out ROM.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical sorting proposed	Mechanical method adopted for grade wise sorting.	Dry Crushing (100 TPH) & Screening (250TPH)

7c	Different grade of mineral sorted out at mines.	Lumps: (+10 to -40) mm Fe-62-65% & Fines: (-10mm) Fe- 62-65%	Lumps: (+10 to -40) mm 62-65% Fe- 98,000.00 (t) & Fines: (-10mm) 62-65% Fe- 3,62,000.00 (t)	Grade wise sorting done as per buyers requirement.
7d	Any beneficiation process at mines	No proposal	NIL	Mobile dry crushing & screening plant are utilized.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Lessee has carried out size- wise/grade-wise separation of iron ore by crushing and screening process. Lessee has utilized Mineral reject (sub-grade iron ore) with high grade iron ore. Practices adopted are good from the point of Mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	No generation of top soil
8b	Concurrent use or storage of topsoil	No proposal	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)		Separate dump of overburden maintained.	Separate stocks of fines maintained.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	

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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 and additional plantation done (Rule 41)		Agave Suckers: 1,58,000.00 no's Seedlings: 8,118.00 no's Seeds for coir mat: 95 kgs	During the year lessee has carried out the plantation outside the lease due space constraints.
8g	Survival rate	85 %	80%	
8h	Water sprinkling on roads to control airborne dust	sprinklings on	Carried out as per proposal	Lessee has made Water tankers with (8000 litres) capacity along with water mist arrangement at mine site for suspension of dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mine is good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted upto Nov 2023 A.R. submitted upto 2022-23		MR submitted on 07.12.2023 AR submitted on 26.06.2023
9b	Scrutiny of Annual return for information	Mines Manager: 01	Appears to be correct	Mines Manager: Amartaluri V. Rao
	on Mining Engineer, Geologist and	Graduate Mining Engineer: 01		Mining Engineer: Subramani M
	Manager	Diploma Mining Engineer: 01 Geologist: 01		Geologist: Satish K. Chougule were present during the date of inspection

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	- 12.98 Ha Dump	Appears to be correct	As per the Annual returns of 2022-23
9d	Scrutiny of Annual return on afforestation	NIL	During the year Nil inside lease	Lessee has carried out plantation outside lease
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	-	No mineral reject stock at mine site	Lessee has consumed the mineral reject by blending with high grade ore
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Appears to be correct	
		Dump Working: Opening Balance- Nil Closing balance- Nil		
		Lumps: 62-65% Fe- 98,000.00 (t)		
		Fines: 62-65% Fe- 3,62,000.00 (t)		

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As per the Annual 9g Scrutiny of Sale Value: Appears to be correct Annual return on Lumps -4718.23 returns of 2022-23 sale value, Ex. Rs/ton, Fines -3967.27 Rs/ Mine price and production cost ton Ex-mine price: Lumps -62-65% Fe-4718.23 Rs/ ton Fines -62-65% Fe-3967.27 Rs/ ton Cost of Production 2108.35 Rs/ ton 9h Scrutiny of NIL NIL Lessee has Annual return on reported the fixed fixed assets assets details of this mine in Ramanamali Iron ore mine (mine code 30KAR03138) 9k Scrutiny of Excavator Appears to be correct Annual return on - 4 No's mining Wheel loader machineries - 2 No's Dumper - 7 No's Crusher - 2 No's Back Hoe - 1 No Water Tanker -1 No Screener - 2 No's

Details of violations observed during current inspection and compliance position of violation pointed out				
Violatio	n observed	Show c	ouse position	
Rule NO.	Issued on Compliance or	Rule NO.	Issued on Compliance on	
MCDR17 Rule 11(1)	15/02/2024			

Date :

(DR. Sudhakara T.L)

Indian Bureau of Mines