

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/395/BNG

Mine code : 30KAR03104

- (i) Name of the Inspecting : **S006**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Sri. Shanmukhappa Mandal , Mine Agent & Sri. Amartalu
Official with
Designation
- (iv) Date of Inspection : 14/03/2023
- (v) Prev.inspection date : 03/02/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DHARMAPURI**
- (b) **Registration NO.** : **IBM/178/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BELLARY**
- Village : **RAMGAD**
- Taluka : **SANDUR**
- Post office : **SANDUR**
- Pin Code : **583119**
- FAX No. : **08395-260676**
- E-mail : **vescosdr@yahoo.com**
- Phone : **08395-260121**
- (f) **Police Station** : **SANDUR**
- (g) **First opening date** : **01/01/1995**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/S.VEERABHADRAPPA SANGAPPA & COMPANY**
2-138, BELLARY ROAD,
SANDUR - 583119
3. (a) **Lease Number** : **KAR1204**
- (b) **Lease area** : **51**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **16/02/2021**
4. **Mineral worked** : **IRON ORE** **Main**

5. Name and Address of the

Lessee : VEERABHADRAPPA SANGAPPA & COMPANY
 # 2/138, BELLARY ROAD,
 HOSPET, BELLARY KARNATAKA
 Phone:08395-260120
 FAX :08395-260676

Owner : K.S.Nagaraj, Mang. Partner of M/s VESCO
 VESCO House, 2/138 Ballari
 Road, Sandur BELLARY
 KARNATAKA
 Phone: 08395-260120
 FAX : 08395-260676

Geologist
 Name : ANIL N. L., Full Time
 Qualification : M.Sc (Geology)
 Appointment/ : 01/03/2013
 Termination date

Manager
 Name : Amartaluri V. Rao
 Qualification : Dip. in Mining, Ist FCMM
 Appointment/ : 15/09/2009
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	20/03/1991
		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	16/09/2015
		MP review under 17(1) MCR 2016	10/11/2016
		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	No proposals	Nil	56 core boreholes were drilled to a total meterage of 2694m from 1992-93 to 2015-16 and no backlog of previous years.
1b	Exploration over lease area for geological axis 1 or 2	G1, G2 = 15.50 Ha.	G1- 13.85 Ha, G2-1.65 Ha	2.96 ha is non mineralized area
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals	Nil	67.35 lacs spent on exploration in the past.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals	Nil	Out of Proposed 4 Boreholes (240 mtrs) during 2022-2023, 7 Boreholes covering 260 mtrs are carried out and still the exploration work is in progress.
1e	Balance reserve as on 01/04/20	G1-8163687, G2-272175.	8,435,862 MT of Reserves with +35 % Fe	As per Annual returns submitted for FY 2021-22.
1f	General remarks of inspecting officers on geology, exploration etc			Out of total ML area of 18.46 Ha, 15.5 Ha is mineralized and 2.96 ha is non mineralized. During the RY there were no proposals for exploration. However Out of Proposed 4 Boreholes (240 mtrs) during 2022-2023, 7 Boreholes covering 260 mtrs are carried out and still the exploration work is in progress.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	N 1666816 to 1667170 E 661690 to 661960	Nil	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden and mineral proposed	Nil	No Mining Operations carried out during the RY. However separate benches are made in overburden and Mineral with common boundary workings.
2c	Stripping ratio or ore to OB ratio	1:0.28	Nil	No Mining Operations carried out during the RY for want of statutory clearances
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	64,979 m3	Nil	No Mining Operations carried out during the RY for want of statutory clearances
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022. The mine is developed with single pit with separate benches made in overburden and Mineral. The work is having common boundary working proposals and the development of pit is in progress along the common boundary.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	1 Pit proposed	Nil	One pit with dimension of the L- 310m, Width- 138m, Depth-41 m
3b	Quantity of ROM mineral production proposed	Proposed 0.46 MT	Nil	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022.
3c	Recovery of sailable/usable mineral from ROM production	95%	Nil	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022.
3d	Quantity of mineral reject generation	No proposal.	Nil	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Nil.	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022.
3f	Quantity of sub grade mineral generation.	No Proposal	Nil	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022.
3g	Grade of sub grade mineral generation	No Proposal	Nil	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022.

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for segregating from ROM	Nil	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	No such study carried out	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022.
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed in mineral benches	In the reporting year no drilling blasting carried out as there was no mining operations carried out in the Mining lease	10% of the total volume is proposed for drilling and blasting.
3k	Provision of mining machineries in mineral benches	Hydraulic excavator & tipper combination proposed	Nil	No Mining Operations
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height- 7m, Width- 8m	Nil	No Mining Operations
3m	Total area covered under excavation/pits	12.30 ha at the end of plan period	12.65 ha at the end of reporting year (2021-22)	No Mining Operations As per AR submitted for 2021-22
3n	Ore to OB ratio for the pit/mine during the year.	1:0.27	Nil	As on 31.03.2021
3o	Total area put in use under different heads at the end of year	Area in Ha Pit- 12.30 Ha R&R- 0.20 Ha Dump- 4.43 Ha Others- 1.53 Ha	Area in Ha Pit- 12.65 Ha Dump- 4.00 Ha Others- 1.81 Ha	No Mining Operations As per AR submitted for 2021-22

3p	Production of ROM mineral during the last five year period as applicable	2017-18: 4,60,000 2018-19: 4,60,000 2019-20: 4,60,000 2020-21: 4,60,000 2021-22: 4,60,000 (in tonnes)	2017-18: Nil 2018-19: Nil 2019-20: Nil 2020-21: Nil Nil (in tonnes)	2020-21:	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022.
3q	General remarks of inspecting officers on method of mining etc.				Mining is by open pit mechanized method with drilling, blasting and Shovel-Tipper combination. Separate benches are made in overburden and Mineral with common boundary workings.

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	Nil	No Mining Operations carried out during the RY for want of statutory clearances. The Mine is re-opened on 11/07/2022. However separate dumping of OB is proposed and carried out during 2022-2023.
4b	Location of topsoil, OB and mineral reject dumps	Dumping Location N-1666958-1667254, E-661452-661750	Nil	No Mining Operations carried out during the RY for want of statutory clearances. One existing dump location : N 1667120- 1667290 E 661480-662660.
4c	Number of dumps within lease area and outside of lease area	WML : 1 dump OML : Nil	WML:1dump OML : Nil	1 waste dump exists within the ML.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB Dump proposed outside the UPL	NW side 70 m away from UPL	One existing waste dump location : N 1667120- 1667290 E 661480-662660.
4e	Number of active and alive dumps.	1	1	One active and live dump.
4f	Number of dead dumps.	Nil	Nil	--
4g	Number of dumps established.	Nil	Nil	--
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Existing Toe wall : 786m GD: 780m Constructed in the past as per R&R & it is maintained. For the year 2022-23, it was proposed to construct a retaining wall of 150 mts and 25 mts of garland drain which was not carried out. Violation issued.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Nil	Existing Toe wall : 786m GD: 780m Constructed in the past as per R&R & it is maintained.
4j	Number of settling ponds	No Proposal	Nil	Existing GCD : 3 Nos. LBCD : 2 Nos. SMCD : 1 No. Silt settling tank : 2 No's. Constructed in the past as per R &R & it is maintained.

4k	Specific comments of inspecting officer on waste dump management	One waste dump is exists in the lease with engineering structures for stabilization: Toe wall: 786m GD: 780m Constructed in the past as per R&R & it is maintained. For the year 2022-23, it was proposed to construct a retaining wall of 150 mts and 25 mts of garland drain which was not carried out. Violation issued.
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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	No part of the pit is matured for backfilling. Mineral still exists at depth.
5b	Area under backfilling of mined out area	No proposal	Nil	No part of the pit is matured for backfilling. Mineral still exists at depth.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	No Top soil in the lease. No part of the pit is matured for backfilling. Mineral still exists at depth.
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	--
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No part of the pit is matured for backfilling. Mineral still exists at depth.

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PMCP report to be submitted by 1st July every year	PMCP report submitted on 24.06.2022	No Mining Operations carried out during the RY. However PMCP report submitted on 24.06.2022.
6b	Area available for rehabilitation (ha) .	No proposal.	Nil.	No area available for rehabilitation.
6c	afforestation done (ha).	No proposal	Nil.	
6d	No. of saplings planted during the year	500 Seedlings	120 Seedlings 7000 Agave Suckers	Appears to be correct for 2021-2022. For the year 2022-23, it was proposed to do afforestation over 0.37 Ha with plantation of 925 saplings. But not carried out for which violation is issued.
6e	Cumulative no .of plants	----	5924: Seedlings 158000: Agave Suckers	Appears to be correct.
6f	Any other method of rehabilitation	No proposal	Nil	--
6g	Cost incurred on watch and care during the year	No proposal	Rs. 1,06,774.86	Appears to be correct.
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)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	For the year 2022-23, it was proposed to do afforestation over 0.37 Ha with plantation of 925 saplings. But not carried out for which violation is issued.
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	--
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in Core & Buffer zone	Environmental monitoring carried out in Buffer zone by Cosmo Laboratory Ballari.	Buffer Zone Air-(So2-12.88, No2-13.75 mg/cum) Pm10-54.25 Pm2.5- 14.75 G. Water- (TDS-2110 mg/l) S. Water- (TDS-391 mg/l) Noise-dB(A) Max'- 55.92 Min'- 48.87

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No Mining Operations carried out during the RY. However, for the year 2022-23, it was proposed to do afforestation over 0.37 Ha with plantation of 925 saplings. But not carried out for which violation is issued.
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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	Nil	No Mining Operations carried out during the RY for want of statutory clearances.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical sorting proposed	Nil	No Mining Operations carried out during the RY for want of statutory clearances.
7c	Different grade of mineral sorted out at mines.	Lumps: (+10 to -40) mm Fe-59-62% & Fines: (-10mm) Fe- 58-60%	Nil	No Mining Operations carried out during the RY for want of statutory clearances.
7d	Any beneficiation process at mines .	Mobile dry crushing (100 TPH) & screening plant (200TPH)	Nil	No Mining Operations carried out during the RY for want of statutory clearances.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No Mining Operations carried out during the RY for want of statutory clearances. Blending of low grade with high grade ore is done to bring it to marketable grade thereby taking care of Mineral conservation. No Mineral beneficiation is required at this stage of mining.
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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 in the mine.
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for overburden proposed	Separate dump of overburden maintained	One waste dump exists for overburden.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	No part of the pit is matured for restoration to its original use by backfilling.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	No part of the pit is matured for restoration to its original use. Also One existing waste dump is alive and not matured for restoration, reclamation and rehabilitation.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 seedlings	WML: 120 sapling 7000 Agave sucker (For FY 2021-22)	Appears to be correct for 2021-2022. For the year 2022-23, it was proposed to do afforestation over 0.37 Ha with plantation of 925 saplings. But not carried out for which violation is issued.
8g	Survival rate	85 %	80%	Appears to be correct
8h	Water sprinkling on roads to control airborne dust	Water sprinklings on haul roads proposed to control air borne dust	No Mining Operations	No Mining Operations carried out during the RY for want of statutory clearances. However during inspection Water sprinkling on roads to control airborne dust was in place.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetics in and around mines area is maintained well and surrounding the mine in forest area there exists thick and natural vegetation.

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 February, 2023 & A.R. Submitted up to 2021-22 within the stipulated time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: Amartaluri V. Rao		No Mining Operations for the FY 2021-22

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area in Ha Pit- 12.65 Ha Dump- 4.00 Ha Others- 1.81 Ha		As per the Annual returns of 2021-22
9d	Scrutiny of Annual return on afforestation	WML: 120 sapling 7000 Agave sucker	Appears to be correct.	As per the Annual returns of 2021-22
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening Balance- Nil Production: Nil Closing balance- Nil Dump Working: Opening Balance- Nil Closing balance- Nil Lumps: Opening Balance- 32.880 tons (62to 65% Fe) 19.200 tons (+65% Fe) Closing balance- 32.880 tons (62to 65% Fe) 19.200 tons (+65% Fe) Fines: Opening Balance- 2001.70 tonnes (+65% Fe) Closing balance- 2001.70 tonnes (+65% Fe)		As per the Annual returns of 2021-22

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value: Nil Ex-mine price: -	As per the annual returns of 2021-22
9h	Scrutiny of Annual return on fixed assets	--	--
9k	Scrutiny of Annual return on mining machineries	Excavator- 4 No's Wheel loader - 3 No's Tipper - 6 No's Rock Breaker- 1 No' Drilling Machine- 1 No' Crusher- 1 No' Screener- 2 No's	No Mining Operations carried out during the RY for want of statutory clearances. However on inspection date the proposed machineries are in place.

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)	29/03/2023			

Date :

(SURESH PRASAD)

Indian Bureau of Mines