

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/DVN/MN/2/BNG

Mine code : 40KAR27004

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Shri B.M Arjun, Agent, Shri A.P Moses, Mine Manager,
Official with
Designation
- (iv) Date of Inspection : 02/08/2023
- (v) Prev.inspection date : 22/11/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KADATHIHALLI (12.95 HA)**
- (b) **Registration NO.** : **IBM/21855/2017**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **DAWANGERE**
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : **0839-2268033**
- E-mail : **sriymco@gmail.com**
- Phone : **09480000123**
- (f) **Police Station** : **Harpanahalli**
- (g) **First opening date** : **18/01/2018**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/S SRI YERRITHATHA MINING COMPANY,**
53,B.C.M COMPOUND, INFANTRY ROAD,CANTT.
BALLARI -583 104.
3. (a) **Lease Number** : **KAR1611**
- (b) **Lease area** : **12.56**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **17/09/2031**
4. **Mineral worked** : **MANGANESE ORE** **Main**

5. Name and Address of the

Lessee : YERRITHATHA MINING COMPANY
 DAWANGERE KARNATAKA
 Phone:
 FAX :

Owner : B. Anoop Kumar Managing Partner
 B.C.M Compound Infantry
 Road, Cantonment Ballari -
 583104 BELLARY KARNATAKA
 Phone:
 FAX :

Agent : B M Arjun
 B.C.M Compound Infantry
 Road, Cantonment Ballari -
 583104 BELLARY KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : JAGADISH VYAS, Full Time
 Qualification : B.E. MINING
 Appointment/ : 14/04/2022
 Termination date

Geologist

Name : R. ANANTHA BABU, Full Time
 Qualification : M.Sc GEOLOGY
 Appointment/ : 24/11/2022
 Termination date

Manager

Name : A.P. MOSES
 Qualification : DME
 Appointment/ : 01/08/2020
 Termination date

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	25/01/2007
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	31/03/2016
	:	MP review under 17(1) MCR 2016	06/01/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	nil	-
1b	Exploration over lease area for geological axis 1 or 2	No proposals	nil	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Not specified	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G1- 0.96 Ha G2 - 0.00Ha G3- 11.60 Ha	-
1e	Balance reserve as on 01/04/20	-	-	The reserves as on 1.4.2023 is 296212tonnes.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	There are no exploration proposals for the year 2022-23.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of Development- Section 4-4' to 6-6'6m height within co-ordinates N1620289 to N1620234 and E589633 to E589468 (604mRL to 592mRL)	Development has been carried out even below the proposed mRL(592m) of the last year of plan period i.e., 2025-26.	Violation pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in OB and mineral.	Separate benches maintained in OB and mineral.	-
2c	Stripping ratio or ore to OB ratio	1:1.81(tonnes)	1: 3.72(tonnes)	Ore-17200t OB- 64000t

2d	Quantity of topsoil generation in m3	No proposal	nil	-
2e	Quantity of overburden generation in m3	16527m3	32000 m3	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The development has been carried out beyond the proposal inside the mine. The violation has been pointed out to the lessee.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	-
3b	Quantity of ROM mineral production proposed	18225 Tonnes	17200 Tonnes	-
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	As reported in AR2022-23.
3d	Quantity of mineral reject generation	No proposal	nil	-
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	nil	-
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	Mechanised crushing and screening proposed.	Mechanised screening carried out.	-

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	Drilling and Blasting proposed.	No drilling and blasting carried out. Only Rock Breaker operation carried out.	Only Rock Breaker operation inside the mine.
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed- Excavators- 1 Tippers- 3 Wheel loader-1 Drill-1 Water tanker - 1	Machinery deployed: Excavators- 1 Tippers- 2 Back Hoe-1 Water tanker -1	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height 6m proposed.	Average bench height 6m maintained.	-
3m	Total area covered under excavation/pits	1.02 Ha	0.82 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:1.81(tonnes)	1: 3.72(tonnes)	Ore-17200t OB- 64000t

3o	Total area put in use under different heads at the end of year	Area under mining - 1.02ha OB Dumping - 1.23ha Mineral storage-0.29ha Subgrade-0.20ha Infrastructure & Roads including Mineral separation plant-0.95ha Afforestation& Green belt-2.71ha At the end of the plan period (2021-26)	Area under mining - 0.82ha OB Dumping -1.23ha Infrastructure & Roads including Mineral separation plant-0.69ha Others -9.82ha	As per the AR 2022-23.
3p	Production of ROM mineral during the last five year period as applicable	2018-19:18008 2019-20:18084 2020-21:25088 2021-22:18225 2022-23:18225 (In tonnes)	2018-19:5250 2019-20:9850 2020-21:16700 2021-22:17500 2022-23:17200 (In tonnes)	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	There is no change in the method of mining.

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 of Overburden, proposed.	Separate Dumping of Overburden maintained as per the proposals	-
4b	Location of topsoil, OB and mineral reject dumps	OB dump : Waste dump-5 South eastern side of Mining lease.	Dumping of Overburden carried out within the proposals.	-
4c	Number of dumps within lease area and outside of lease area	5 dumps within the lease area.	5 dumps within the lease area.	-

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Two dumps inside the UPL and three dumps Outside the Ultimate Pit Limit	Two dumps inside the UPL and three dumps Outside the Ultimate Pit Limit	-
4e	Number of active and alive dumps.	1 active waste dump-5 proposed	1 active waste dump-5 maintained.	-
4f	Number of dead dumps.	4small dead dumps within ML area.	4small dead dumps within ML area.	-
4g	Number of dumps established.	No proposal	nil	-
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	nil	-
4i	Length of Retaining wall or garland drain all along dumps	No proposal	nil	-
4j	Number of settling ponds	No proposal	nil	-
4k	Specific comments of inspecting officer on waste dump management	-	-	No specific comments on waste dump management.

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	-
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 of inspecting officers on backfilling and reclamation etc.	-	-	There are no proposals for backfilling.

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).	To be submitted the annual report on PMCP under Rule26(2)	Annual PMCP Report for the year 2022-23 submitted on 30/06/2023	-
6b	Area available for rehabilitation (ha) .	0.452ha within lease	Plantation within the lease area	-
6c	afforestation done (ha).	0.45ha within lease.	Plantation within the lease area	-
6d	No. of saplings planted during the year	1200	1200saplings planted inside ML area.	As reported in AR2022-23.
6e	Cumulative no .of plants	8100	8100	Planted within the lease area.
6f	Any other method of rehabilitation	No proposals	nil	-
6g	Cost incurred on watch and care during the year	No proposals	nil	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals	nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	nil	-

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	No proposals	nil	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposals	nil	-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposals	nil	-
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposals	nil	-
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposals	nil	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring proposed for Air, Water & Noise.	Environment monitoring for Air, Water & Noise carried out.	All the environmental parameters within limit
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	No specific comments on compliance of PMCP and progressive closure operations.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	Only mechanical crushing and screening proposed.	Mechanical screening carried out for different sizes	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting proposed	Nil	-
7c	Different grade of mineral sorted out at mines.	No proposal	nil.	Size wise sorting is being carried out in the mine.
7d	Any beneficiation process at mines	No proposal	nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No specific comments

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	nil	-
8b	Concurrent use or storage of topsoil	No proposal	nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal for Separate dumping of Overburden/	Separate dumping of Overburden is 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 and additional plantation done (Rule 41)	1200nos. of plants (inside the ML)	1200nos. of plants (inside the ML).	As reported by the lessee during the inspection
8g	Survival rate	80%	83%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control airborne dust.	Water tanker deployed to control the airborne dust on haul roads and screening plant.	A water tanker of 8000 liters capacity used for water sprinkling.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	There is no change in aesthetic beauty in and around mines area.

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 June, 2023 A.R. for the year 2022-23 submitted on 30.06.2023.	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Jagadish Hanuman Vyas , Mining Engineer R Ananatha Babu, Geologist , Moses A.P, Manager	Appears to be correct	-

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining - 0.82ha OB Dumping - 1.23ha Infrastructure & Roads including Mineral separation plant-0.69ha Others -9.82ha	Appears to be correct	-
9d	Scrutiny of Annual return on afforestation	1200nos. of plants (inside the ML)with 83% survival rate	Appears to be correct	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Appears to be correct.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S -nil Production - 17200t C/S - Nil	Appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production- Rs1424.72/tonne Ex-price mine- Rs1503.30/tonne	Appears to be correct	-
9h	Scrutiny of Annual return on fixed assets	Fixed Assets- Rs26936805/-	Appears to be correct.	-
9k	Scrutiny of Annual return on mining machineries	Excavators- 1 Tippers- 2 Back Hoe-1 Water tanker - 1	Appears to be correct.	-

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 31(4)	01/09/2023	MCDR17	Rule 11(1)	01/09/2023
MCDR17	Rule 11(1)	01/09/2023	MCDR17	Rule 31(4)	01/09/2023

Date :

(K.SRINIVAS)

Indian Bureau of Mines