

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/DVN/MN/1/BNG

Mine code : 40KAR27003

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri Mohan Kumar ,Geologist and Sri Shivaraj, Mining En
Official with
Designation
- (iv) Date of Inspection : 14/03/2022
- (v) Prev.inspection date : 19/07/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KADATHIHALLI (2.02 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. : **08392268033**
- E-mail : **sriymco@gmail.com**
- Phone : **9480000123**
- (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** : **KAR1699**
- (b) **Lease area** : **2.02**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **14/02/1995**
4. **Mineral worked** : **MANGANESE ORE** **Main**

5. Name and Address of the

Lessee : YERITHATHA MINING CO.,
DAWANGERE KARNATAKA
Phone:
FAX :

Owner : YERITHATHA MINING CO
DAWANGERE KARNATAKA
Phone:
FAX :

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	25/01/2007
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	05/05/2016
		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 proposal	nil	-
1b	Exploration over lease area for geological axis 1 or 2	No proposal	NIL	No proposals for the year 2020-21
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	NIL	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	G3- 0.83	G1- 1.19ha G2- Nil	The exploration proposals incorporated in the next plan period.
1e	Balance reserve as on 01/04/20	-	--	383563 t Reserves as on 1.4.2021 Average grade >10%Mn
1f	General remarks of inspecting officers on geology, exploration etc	-	-	There were no proposals for the year 2020-21. However, the detailed exploration proposals have been incorporated in the next plan period for 2021-22 to 2025-26.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Working proposals along the section 5-5' and 6-6'. (592mRL to 596mRL)	Development carried out as per the proposals.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed for OB and Ore.	Separate benches maintained for OB and Ore.	-

2c	Stripping ratio or ore to OB ratio	1:0.42(in tonnes)	1:0.458(in tonnes)	Ore-7200t Waste- 3300t
2d	Quantity of topsoil generation in m3	No proposal	NIL	-
2e	Quantity of overburden generation in m3	5328cu.m	1650cu.m	Violation issued.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The ore and waste quantity produced less against the proposed. 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 proposed	Actual working carried out in one pit.	-
3b	Quantity of ROM mineral production proposed	25003 tonnes	7200 tonnes	As per the AR 2020-21.The violation issued.
3c	Recovery of sailable/usable mineral from ROM production	90%	100%	-
3d	Quantity of mineral reject generation	2500t 2500t 2500t	Nil	As per the annual return 2020-21.
3e	Grade of mineral rejects generation and threshold value declared.	10 -15% Mn	No mineral reject generated.	-
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 crushing and screening carried out.	Screen size 10- 40mm.
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 as per the DGMS 106(2)(b) permission.	Only rock breaker operation carried out.
3k	Provision of mining machineries in mineral benches	Provision of mining machineries made Excavator- 1 Water tanker-1 Tippers -2 Hydraulic Drill -1wheel loader - 1	Machineries deployed Excavator- 1 Water tanker- 1 Tippers - 1	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed height 6m for both Overburden and Mineral bench.	6m height Maintained for both Overburden and Mineral bench.	-
3m	Total area covered under excavation/pits	0.70 ha at the end of Plan Period(2020- 21).	0.70 Ha covered under excavation /pit.	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.42(in tonnes)	1:0.458(in tonnes)	Ore-7200t Waste- 3300t

3o	Total area put in use under different heads at the end of year	Mining- 0.70 Ha Infrastructure and roads- 0.02 Ha WasteDumps- 0.56 ha Green Belt and R & R structures - 0.37 at the end of the plan period(2021-22)	Covered under current opencast workings- 0.92 Ha WasteDisposal- 0.01 ha Occupied by Plants, buildings, residential, welfare buildings and roads -0.13 ha Others purpose(Green belt safety zone, R&R and future mining -0.96 Ha	-
3p	Production of ROM mineral during the last five year period as applicable	2016-17 :10040 2017-18: 15080 2018-19 :20052 2019-20 :20008 2020-21: 25003 (in tonnes)	2016-17 : Nil 2017-18: 7300 2018-19 : 7200 2019-20 : 5850 2020-21:7200 (in tonnes)	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	The violation has been issued for less production. There is no change in 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 is proposed.	Separate dumping of Overburden is maintained.	-
4b	Location of topsoil, OB and mineral reject dumps	OB dump(Sec.AA'-CC'),Reject/su bgrade dump at eastern corner of the lease.	OB dump and the mineral reject/subgrade dump maintained as per the proposal.	-
4c	Number of dumps within lease area and outside of lease area	One OB dump proposed inside.	One overburden dump at present inside the lease area.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside theUPL	Outside the UPL.	-

4e	Number of active and alive dumps.	One active waste dump proposed.	One active waste dump maintained.	-
4f	Number of dead dumps.	Five small dead dumps inside the ML area.	Nil	-
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	-	-	There are 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 backfilling proposals.
----	--	---	---	-------------------------------------

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).	Submission of Annual report on PMCP under rule 26(2)	Annual PMCP Report for Year 2020-21 is submitted to IBM Office on 28/05/2021	-
6b	Area available for rehabilitation (ha) .	0.15ha within the lease area.	0.15ha within the lease area.	As reported by the lessee during the inspection.
6c	afforestation done (ha).	0.15within the lease area	0.15within the lease area	Gap plantation. As reported by the lessee during the inspection.
6d	No. of saplings planted during the year	1000saplings	1400saplings planted.	As reported in AR 2020-21.
6e	Cumulative no .of plants	3800saplings	2900saplings	-
6f	Any other method of rehabilitation	No proposals	NIL	-
6g	Cost incurred on watch and care during the year	Rs1.5Lac	Rs1.5Lac	-
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)	Environmental monitoring proposed for Air, water & Noise.	Environmental monitoring carried out for Air, water & Noise.	All the environmental parameters are within the limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	As reported by the lessee during the inspection, gap plantation has been carried out.

Mineral Conservation:

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

7a	ROM Mineral dispatch or grade-wise sorting within lease area	Only mechanical crushing and screening proposed.	Only mechanical crushing and screening carried out.	-
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	-
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 proposals	NIL	-
8b	Concurrent use or storage of topsoil	No proposals	NIL	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed for OB and mineral reject/sub grade.	Separate dumping maintained for OB and mineral reject/sub grade.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals	NIL	-

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals	NIL	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3800saplings inside the ML.	2900saplings planted inside the ML.	Plantation in vacant areas and all along the approach roads & adjacent areas.
8g	Survival rate	70%	70%	As reported in AR2020-21.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads proposed	Water sprinkling on roads carried out.	-
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 February, 2021: A.R. Submitted up to FY 2020-21 Submitted on 30.5.2021.	Appears to be correct.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Shivraj D Mining Engineer Sri Mohan Kumar S, Geologist. Sri 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.	Covered under current opencast workings- 0.92 Ha WasteDisposal- 0.01 ha Occupied by Plants, buildings, residential, welfare buildings and roads -0.13 ha Others purpose(Green belt safety zone, R&R and future mining -0.96 Ha	Appears to be correct.	-
9d	Scrutiny of Annual return on afforestation	1400saplings planted within the ML with 70% 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 - 1100tonnes Production - 7200tonnes C/S - 0	Appears to be correct.	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production- Rs997.87/tonne Ex-mine price - Rs1454.16/tonne	Appears to be correct.	-
9h	Scrutiny of Annual return on fixed assets	Value of fixed Assets -Rs 9961476/- including Residential ,Plant, Machinery , Capitalized expenditure.	Appears to be correct.	-

9k	Scrutiny of Annual return on mining machineries	Machineries deployed Excavator- 1 Water tanker- 1 Tippers - 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 11(1)	06/04/2022	02/06/2022	MCDR17	Rule 45(7)	06/04/2022	02/06/2022
MCDR17	Rule 45(7)(a)	06/04/2022	02/06/2022				

Date :

(K.SRINIVAS)

Indian Bureau of Mines