

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

Review and updation of Mining Plan REPORT

Bangalore regional office

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

Mine code : 40KAR27004

- (i) Name of the Inspecting : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : D.N. Gulhane, QP, B.M. Arjun, Mine Agent and others
Official with
Designation
- (iv) Date of Inspection : 25/11/2020
- (v) Prev. inspection date :

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** : **12.95**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **17/09/2001**
4. **Mineral worked** : **MANGANESE ORE** **Main**

5. Name and Address of the

Lessee : YERRITHATHA MINING COMPANY
 DAWANGERE KARNATAKA
Phone:
FAX :

Owner : YERITHATHA MINING CO
 DAWANGERE KARNATAKA
Phone:
FAX :

6. Date of approval of Mining Plan/Scheme of Mining : Renewal under rule 24 MCR1960 25/01/2007
Modif.of approved Mining Plan 31/03/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	3 boreholes proposed during the year 2016-17 with total meterage of 150 m.	The exploratory work not carried out as per the proposal	Violation issued.
1b	Exploration over lease area for geological axis 1 or 2	No Exploration proposal for the year 2019-20	No Exploration carried out during the year 2019-20	Violation issued for not carrying out exploration as per the proposal. The detailed exploration program including the above backlog was incorporated in the upcoming plan period 2021-22 to 2025-26.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned	Exploration was not carried out during the year 2019-20.	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	G-3 area of 0.21 ha.	No exploratory drilling carried out to upgrade the G-3 area of 0.21 ha to G-1/G-2 axis.	Violation issued for not carrying out exploration activities as per the proposal. Also, Exploration proposals incorporated in the upcoming plan period 2021-22 to 2025-26 to upgrade entire G3 area to G-1.
1e	Balance reserve as on 01/04/20	283472 tonnes with grade Mn >10 % as on 01.04.2016	268372 tonnes of Manganese as on 1.04.2020.	As per AR 2019-20.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	i) Three exploratory core boreholes with total meterage of 150 m was proposed to be drilled in the year 2016-17 against which till date no work has been carried out. Violation issued.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	i)Section 33'-44' (598 mRL to 592 mRL)	The development carried out within the proposed extent.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in OB & mineral.	Separate benches maintained in OB & mineral	OB-2 benches, 6 metres height and mineral 2 benches 6 metres height.
2c	Stripping ratio or ore to OB ratio	1:0.34(in tons)	1:0.55(in tons)	Ore production-9850 tons, Waste-5500 tons.
2d	Quantity of topsoil generation in m3	No Proposal	Nil	Nil
2e	Quantity of overburden generation in m3	3514 Cum	2750 Cum	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The development has been carried out inside the mine as per the proposal.

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.	Nil
3b	Quantity of ROM mineral production proposed	20,093 tons	9850 tons	As per AR 2019-20. Violation issued.
3c	Recovery of saleable/usable mineral from ROM production	90 % 18084 tons of saleable mineral from ROM production.	90 % 8850 tons opf saleable mineral from ROM production	As per AR 2019-20
3d	Quantity of mineral reject generation	2009 tons of Mineral Reject generation proposed.	1000 tons of Mineral reject generated.	As per AR 2019-20.
3e	Grade of mineral rejects generation and threshold value declared.	10-15 % Mn proposed	14 % Mn	As per AR 2019-20.

3f	Quantity of sub grade mineral generation.	No proposal	Nil	Nil
3g	Grade of sub grade mineral generation	No proposal	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized crushing & screening proposed.	Mechanized screening carried out for various sizes	Screen Size 10-40 mm.(Mechanical screening)
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	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 DGMS 106(2)(b) permission	Rock breaker operation inside the mine.
3k	Provision of mining machineries in mineral benches	i)Drill machine-115 mm-1no. ii)Excavator-1.3 Cum-1no. iii)Dumper-10 tons-1 nos. iv)Water tanker-8000 litres-1no.	i)Excavator-1.5 Cum-1 no. ii) Tipper-9.1 Cum- 1 no. iii)Water tanker-8000 litre-1 no.	Machinery details not reported correctly in AR 2019-20 Violation issued under Rule 45(7)
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	0.7 ha at the end of plan period (2020-21)	0.50 ha at the end of the year 2019-20.	As per AR 2019-20. The land use is not reported correctly as per the area details given in the draft RMP document. Violation issued under Rule 45(7).
3n	Ore to OB ratio for the pit/mine during the year.	1:0.34(in tons)	1:0.55(in tons)	Ore production-9850 tons, Waste-5500 tons.

3o	Total area put in use under different heads at the end of year	i)Area under Mining- 0.7 ha ii) Overburden dump- 1.76 ha iii)Mineral storage- 0.50 ha iv)Subgrade- 0.20 ha v)Infrastructu re & roads including Mineral separation plant- 0.389 ha. v)Green belt & afforestation- 2.25 ha at the end of the plan period(2020-21)	i)Covered under current(O/c) workings- 0.50 ha ii)Waste disposal- 1 ha iii)Occupied by Plants, buildings, residential, welfare& roads-1.14 ha. iv)Other purpose- 9.92 ha	As per land use reported in AR 2019-20. The land use under different headings have not been reported correctly. Violation issued under Rule 45(7)
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 10,931 tons 2017-18: 15,008 tons 2018-19: 20,008 tons 2019-20: 20,093 tons (in tonnes)	2016-17: Nil. 2017-18: Nil 2018-19: 5250 tons 2019-20: 9,850 tons (in tonnes)	Nil
3q	General remarks of inspecting officers on method of mining etc.	-	-	i)The total ROM production proposed for the year 2019-20 is 20,093 tonnes against which only 9,850 tonnes of ROM production has been done. The deviation in the overall ROM production is 51 % less than the approved proposal. ii) The land use (area in ha) as reported in AR 2019-20 and the land use figures as given in the submitted draft RMP document are not uniform. Violation issued under Rule 45(7).

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 proposed for OB & Mineral Reject/Subgrade.	Separate dumping maintained for OB & Mineral reject/subgrade as per the proposal.	-
4b	Location of topsoil, OB and mineral reject dumps	OB dump(Sec 55'-77') Mineral Reject/Subgrade dump(Sec 4-4')	OB dump and the mineral reject/subgrade dump maintained within the proposed extent as per the proposal.	Nil
4c	Number of dumps within lease area and outside of lease area	One OB dump. Proposed. (Sec5-5' to 7-7')	One OB dump present inside the Lease area within the proposed extent.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of active and alive dumps.	1 active waste dump proposed.	1 active waste dump maintained	Nil
4f	Number of dead dumps.	6 small dead dumps within ML area	3 small dead dumps within ML area	The other dead dumps have been shifted to the main active waste dump inside the ML area for continuing the mine development.
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall & Garland drain proposed along the proposed waste dump	Retaining wall and garland drain construction carried out along the existing waste dump.	Nil

4i	Length of Retaining wall or garland drain all along dumps	470 m Retaining wall and 470 m garland drain proposed till end of the plan period i.e. 2020-21(Includes waste dump, Mineral stockyard & proposed crushing screening plant area)	106 m Retaining wall & 106 m garland drain constructed along the proposed waste dump.	The existing waste dump is being protected by Retaining wall & garland drain all along.
4j	Number of settling ponds	No proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	The waste dumping has been carried out at the earmarked location as per the proposal.

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	Nil
5b	Area under backfilling of mined out area	No proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	There is no specific backfilling reclamation proposal

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 before 1st of July every year	Annual PMCP report for the year 2019-20 not submitted	Violation issued.
6b	Area available for rehabilitation (ha) .	0.45 ha within Lease.	0.25 ha within the lease(Green belt/Gap plantation)	As reported by the Lessee during inspection.
6c	afforestation done (ha).	0.45 ha within Lease.	0.25 ha within the lease(Green belt/Gap plantation)	As reported by the Lessee during inspection.
6d	No. of saplings planted during the year	2000 nos. of plants inside ML area proposed	1000 nos. of plants inside ML(Green belt/Gap plantation)	As reported in AR 2019-20. Violation issued.
6e	Cumulative no .of plants	5800 nos. of plants (Inside ML area)	2000 nos. of plants.(Inside ML area)	As reported by the Lessee during inspection.
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	4 Lakhs	As per the proposal	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	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 environmental parameters within limit

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	i)2000 nos. of plantation proposed for the year 2019-20 against which only 1000 nos. of plantation have been carried out. Violation issued. ii)Yearly report on PMCP setting forth the extent of protective and rehabilitative works carried out as per the approved Progressive mine closure plan, has not been submitted for the year 2019- 20. Violation 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	Only Mechanical crushing and screening proposed	Mechanical screening carried out for different sizes	Nil
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	No grade wise sorting proposed	Nil	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	Nil
7d	Any beneficiation process at mines .	No proposal	Nil	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	Nil
8b	Concurrent use or storage of topsoil	No proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed for OB and mineral reject/subgrade.	Separate dumping maintained for OB and mineral Reject/subgrade.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	5800 nos. of plants (Inside ML area)	2000 nos. of plants.(Inside ML area)	As reported by the Lessee during inspection.
8g	Survival rate	70%	80%	As reported in AR 2019-20.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads proposed	Water sprinkling carried out as per the proposal	One Water sprinkler of capacity 8 KL used in the mines for water sprinkling
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	The aesthetic beauty in and around the mine looks very good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Oct-2020. ***** A.R. of the year 2019-20 submitted on 13.08.2020	M.R. Submitted up to Oct-2020. ***** A.R. of the year 2019-20 submitted on 13.08.2020	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	i)Mining Engineer- Nil ii) Geologist- Nil iii) Manager- Shri A.P Moses	The Mining Engineer and the Geologist were not found present during inspection.	As per the provision of Rule (55) a whole time Mining Engineer and Geologist have to be appointed for category 'A' mine. Violation issued under Rule 55.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current(O/c) workings- 0.50 ha iii)Waste disposal- 1.0 ha iv)Occupied by Plants, buildings, residential, welfare& roads-1.14 ha. v)Other purpose- 9.92 ha.	The land use (area in ha) as reported in AR 2019-20 and the land use figures as given in the submitted draft RMP document are not uniform	Violation issued.
9d	Scrutiny of Annual return on afforestation	1000 nos. of plants with 80 % survival rate within the ML area	Appears to be correct	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	1000 tonnes with grade Mn- 14 %	Appears to be correct	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/s- 0 tons ROM Production- 9850 tons C/s- 900 tons	Appears to be correct.	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production- Rs 602.60/ton Ex mine price- Rs. 1146.69/ton	The cost of production reported is not correct since Royalty, DMF and NMET are not included.	Violation issued.
9h	Scrutiny of Annual return on fixed assets	Rs. 8870704 including Residential, Plant & machinery & capitalized expenditure	Appears to be correct.	Nil
9k	Scrutiny of Annual return on mining machineries	i)Shovel (Hydraulic)- 220 cum- 1no. ii) Tipper- 16 cum-1 no. iii)Water tanker-8000 litres- 1 no.	The capacity of the machineries like shovel, tipper have not been reported correctly.	Violation issued.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show cause position			
Rule NO.		Issued on	Compliance on	Rule NO.		Issued on	Compliance on
MCDR17	Rule 11(1)	08/12/2020	02/02/2021				
MCDR17	Rule 26(2)	08/12/2020	02/02/2021				
MCDR17	Rule 55(1)(1)	08/12/2020	02/02/2021				
	Rule 45(7)	08/12/2020	02/02/2021				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines