

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri B.M Arjun, Agent, Shri A.P Moses, Mine Manager,
Official with
Designation
- (iv) Date of Inspection : 22-NOV-22
- (v) Prev.inspection date : 14-MAR-22

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-JAN-18
- (h) Weekly day of rest : SUN
2. Address for : M/S SRI YERRITHATHA MINING COMPANY,
correspondance 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-SEP-01
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-APR-22
 Termination date

Geologist

Name : R. ANANTHA BABU, Full Time
 Qualification : M.Sc GEOLOGY
 Appointment/ : 24-NOV-22
 Termination date

Manager

Name : A.P. MOSES
 Qualification : DME
 Appointment/ : 01-AUG-20
 Termination date

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	25-JAN-07
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	31-MAR-16
	:	MP review under 17(1) MCR 2016	06-JAN-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	7 exploratory boreholes proposed with total meterage of 280m.	7 exploratory boreholes drilled with total meterage of 280m.	The scheme of exploratory drilling has not been intimated to this office in 'Form-I' though 7 exploratory boreholes drilling have already been carried out during year 2021-22. Violation issued under Rule 47 of MCDR 2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned	Exploration done through external agency.	The record of the 7 boreholes drilled during year 2021-22 were not found maintained in 'Form-J' during site inspection as per provision of this rule. Violation issued under Rule 48(1) of MCDR 2017.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 -0.96 Ha G3 - 11.60 Ha Total - 7 bore holes proposed	G1 -0.96 Ha G3 - 11.60 Ha Total - 7 bore holes drilled	As per the last approved mine plan document. 7 nos. of exploratory boreholes drilled during year 2021-22 to upgrade the G-3 area.
1e	Balance reserve as on 01/04/20	338912 tonnes of Manganese ore with avg grade >=10 % Mn as on 1.11.2020	3,13,412 tonnes as on 1.04.2022 after depleting production.	As reported in AR 2021-22.

1f	General remarks of inspecting officers on geology, exploration etc	<p>i)The scheme of exploratory drilling has not been intimated to this office in 'Form-I' though 7 exploratory boreholes drilling have already been carried out during year 2021-22. Violation issued under rule 47 of MCDR 2017.</p> <p>ii)The record of the 7 boreholes drilled during year 2021-22 were not found maintained in 'Form-J' during site inspection as per provision of this rule. Violation issued under rule 48(1) of MCDR 2017.</p>
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Sec-3-3' to 5-5' N1620198 E589454 to N1620286 E589506	The benches with 6m height as proposed between Sec3-3' to 4-4' (N-1620271, E-589490) with top 604 & bottom 592 mRL have not been developed systematically as per the proposal.	Violation issued under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in OB & mineral. (6m bench height for both OB & mineral)	The benches with 6m height as proposed between Sec3-3' to 4-4' (N-1620271, E-589490) with top 604 & bottom 592 mRL have not been developed systematically as per the proposal.	Violation issued under Rule 11(1) of MCDR 2017.

2c	Stripping ratio or ore to OB ratio	1:1.06 proposed (In tonnes)	1:1.14 (In tonnes)	Ore -17,500 tonnes Waste - 20,000 tonnes (As reported in AR 2021-22)
2d	Quantity of topsoil generation in m3	No Proposal	NIL	NIL
2e	Quantity of overburden generation in m3	9,927 Cu.m. proposed	10,000 Cu.m. achieved.	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			i) The benches with 6m height as proposed between Sec3-3' to 4-4' (N-1620271, E-589490) with top 604 & bottom 592 mRL have not been developed systematically as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed for production	One pit	NIL
3b	Quantity of ROM mineral production proposed	18,225 tons proposed	17,500 tons achieved	As reported in AR 2021-22.
3c	Recovery of sailable/usable mineral from ROM production	100% proposed	100% achieved	NIL
3d	Quantity of mineral reject generation	No proposal	NIL	NIL

3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NIL	NIL
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	Only dry crushing & screening proposed	Only Screening carried out (Both Manual & Mechanical)	NIL
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 proposed.	Drilling and blasting not carried out.	Rock breaker utilized.
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed	1.Excavator-1.5 Cum-1 no & 0.5 Cum- 1 no. 2.Tipper-9.17 Cum-1 no. 3.Water sprinkler-8 KL-1 no.	As reported in AR 2021-22.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m bench height proposed for both OB & mineral)	The benches with 6m height as proposed between Sec3-3' to 4-4' (N-1620271, E-589490) with top 604 & bottom 592 mRL have not been developed systematically as per the proposal.	Violation issued under Rule 11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	1.02 Ha till end of the plan period (31.03.2026)	0.82 Ha	As reported in AR 2021-22.

3n	Ore to OB ratio for the pit/mine during the year.	1:1.06 (In tonnes)	1:1.14 (In tonnes)	Ore -17,500 tonnes Waste - 20,000 tonnes (As reported in AR 2021-22)
3o	Total area put in use under different heads at the end of year	Mining-1.02 ha Waste dump- 1.23 ha. Infrastructure & roads-0.95 Ha (till end of plan period i.e., 31.03.26)	Mining- 0.82 Ha Waste dump- 1.23 ha Infrastructure & roads- 0.95 ha (As on 1.04.2022)	As reported in AR 2021-22.
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 13,508 2018-19: 18,008 2019-20: 18,084 2020-21: 25,088 2021-22: 18,225 (In tonnes)	2017-18: 0 2018-19: 5,250 2019-20: 9,850 2020-21: 16,700 2021-22: 17,500 (In tonnes)	
3q	General remarks of inspecting officers on method of mining etc.			The benches with 6m height as proposed between Sec3-3' to 4-4' (N-1620271, E-589490) with top 604 & bottom 592 mRL have not been developed systematically as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate waste dumping of OB proposed at WD-5. No topsoil and mineral Reject generation.	A portion of waste dumping has been carried out at North western portion of the lease between Sec 2-2' to 3-3', N-1620300, E-589350 which is not as per the proposal.	Violation issued under Rule 11(1) of MCDR 2017.
4b	Location of topsoil, OB and mineral reject dumps	WD-5 Waste dump. Location-N-1620201 E-589275	A portion of waste dumping has been carried out at North western portion of the lease between Sec 2-2' to 3-3', N-1620300, E-589350 which is not as per the proposal.	Violation issued under Rule 11(1) of MCDR 2017.
4c	Number of dumps within lease area and outside of lease area	5 waste dumps within Lease area. (WD-1, WD-2, WD-3, WD-4 & WD-5)	3 waste dumps within Lease area. (WD-1, WD-4 & WD-5)	WD-2 & 3 having very small qty of waste and are very close to mining area accordingly shifted to the existing waste dump.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	WD-1, WD-4 & WD-5 outside UPL. WD-2 & WD-3 inside UPL.	WD-1, WD-4 & WD-5 outside UPL.	WD-2 & 3 having very small qty of waste and are very close to mining area accordingly shifted to the existing waste dump. (As per current exploration data)
4e	Number of active and alive dumps.	One active waste dump-WD-5	One active waste dump-WD-5	A portion of waste dumping has been carried out at North western portion of the lease between Sec 2-2' to 3-3', N-1620300, E-589350 which is not as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.

4f	Number of dead dumps.	4 dead dumps (WD-1,2,3 & 4)	3 dead dumps (WD-1,4 & t5)	WD-2 & 3 having very small qty of waste and are very close to mining area accordingly shifted to the existing waste dump
4g	Number of dumps established.	No proposal	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	217 m Retaining wall and 281 m Garland drain proposed along WD-5 and proposed mineral stack.	The construction of Retaining wall & garland drain have not been carried out as per the proposal.	Violation issued under Rule 11(1) of MCDR 2017.
4i	Length of Retaining wall or garland drain all along dumps	217 m Retaining wall and 281 m Garland drain proposed along WD-5 and proposed mineral stack.	The construction of Retaining wall & garland drain have not been carried out as per the proposal.	Violation issued under Rule 11(1) of MCDR 2017.
4j	Number of settling ponds	1 Silt settling tank and 5 Gully plugs construction proposed.	one silt settling tank-SST & 5 Gully plugs construction were proposed during the year 2021-22. The same has not been constructed.	Violation issued under Rule 11(1) of MCDR 2017.

4k	Specific comments of inspecting officer on waste dump management	i) A portion of waste dumping has been carried out at North western portion of the lease between Sec 2-2' to 3-3', N-1620300, E-589350 which is not as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.	ii)The construction of 217 m Retaining Wall & 281 m garland drain were proposed along Waste dump-5 & proposed mineral stack for the year 2021-22. The construction of Retaining wall & garland drain have not been carried out as per the proposal. Also, one silt settling tank-SST & 5 Gully plugs construction were proposed during the year 2021-22. The same has not been constructed. Violation issued under Rule 11(1) of MCDR 2017.
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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	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	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The SDF template for year 2021-22 has been submitted on 5th July 2022 which is after the due date. In the instant case the SDF is submitted 4 days late from the due date of submission. Violation issued under Rule 35(2) & 4(B) of MCDR 2017.

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.	Submitted vide Email dated 25-04-2022	NIL
6b	Area available for rehabilitation (ha) .	0.542 ha	0.677 ha	As per the PMCP report 2021-22
6c	afforestation done (ha).	0.542 ha	0.677 ha	As per the PMCP report 2021-22
6d	No. of saplings planted during the year	1200 nos. of saplings plantation proposed	1500 nos. saplings planted.	As reported in AR 2021-22
6e	Cumulative no .of plants	2525 nos. cumulative proposed	4900 nos. of plants cumulative	As reported in Annual PMCP report 2021-22.
6f	Any other method of rehabilitation	No proposal	NIL	NIL
6g	Cost incurred on watch and care during the year	0.6 lakhs proposed.	Rs 72,000 cost incurred on watch & care	As reported by the Lessee during inspection.

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)Afforestation 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 in both core & buffer zone	Environmental monitoring carried out for Air, water & noise as per the proposal. Feb-22 environmental monitoring available during inspection. Parameters within limit.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		i)The plans and sections required under these rules shall be maintained up to date showing also the respective proposal of approved mining plan for various activities pertaining to that year, within three months in case of category 'A' mines as referred to in clause (a) of sub-rule (2) of rule 55. It was observed during inspection that the plans have not been maintained as per the provision of this rule. Violation issued under Rule 31(4) of MCDR 2017.	ii)The holder of a mining lease shall, on or before the 30th day of June every year submit a digital copy along with a print copy of the surface geological plans and sections maintained under rule 32 along with the annual return. The same has not been submitted. Violation issued under Rule 33 of MCDR 2017.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Only crushing & screening proposed.	Only Screening carried out (Both Manual & Mechanical)	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Only crushing & screening proposed.	Only Screening carried out (Both Manual & Mechanical)	NIL

7c	Different grade of mineral sorted out at mines.	+25 % Mn, -8mm & 8-40 mm proposed.	Below 25 % Mn -17500 tons	As reported in AR 2021-22.
7d	Any beneficiation process at mines .	No proposal	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The mineral stacks not maintained uniformly at the proposed location from Sec 4-4' to 5-5' as per the proposal. Violation issued under Rule 11(1) of MCDR 2017.

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)	No proposal	NIL	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Separate dumping proposed for OB at WD-5	A portion of waste dumping has been carried out at North western portion of the lease between Sec 2-2' to 3-3', N-1620300, E-589350 which is not as per the proposal.	Violation issued under Rule 11(1) of MCDR 2017.

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)	2525 nos. cumulative proposed	4900 nos. of plants cumulative	As reported in Annual PMCP report 2021-22.
8g	Survival rate	80 % proposed	80 % achieved	As reported in AR. 2021-22.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed to control airborne dust	Water sprinkling carried out through 8 KL water sprinkler- 1 no. to control airborne dust.	NIL

8i General remarks
of inspecting
officer on
aesthetic beauty
in and around
mines area

Every lessee,
other than those
covered under sub-
rule (1), shall
submit soft copy
of high-resolution
Georeferenced
Ortho-rectified
Multispectral
satellite images
of the leased area
and upto hundred
metres outside the
lease boundary
taken in the month
of April to June
of every year,
before 1st day of
July of that year
in the standards
formats. The
digital aerial
images of the
mining lease have
not been submitted
as per the
provision of this
rule. Violation
issued under Rule
34A(2) of MCDR
2017.

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 Oct-22 on 5.11.22 ***** A.R. Submitted up to 2021-22 on 30.06.22.	M.R. Submitted up to Oct-22 on 5.11.22 ***** A.R. Submitted up to 2021-22 on 30.06.22.	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Shri A.P Moses. Mining Engineer-Shri Jagadish Hanuman Prasad Vyas Geologist-Mohan Kumar	Appears to be correct.	Geologist-Mr. R. Anantha Babu appointed from 24.11.2022 as per the Form-H submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under O/c working- 0.82 Ha Use for Waste disposal- 1.23 ha Occupied by plant, buildings & roads etc.- 0.95 ha	Appears to be correct.	NIL
9d	Scrutiny of Annual return on afforestation	1500 nos. of plants with 80 % survival rate.	Appears to be correct.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Appears to be correct.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM (Opencast workings) O/s- 0 ton Production- 17500 tons C/s- 0 ton. Graded Ore O/s- 5245 tons Production- 17500 tons Despatch-17887 tons C/s- 4857 tons.	Appears to be correct.	NIL

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price (Rs/ton) Below 25 % Mn- Rs. 1995/- Cost of Production- Rs. Rs. 1359.63 /ton	Appears to be correct.	Non-captive mine.
9h	Scrutiny of Annual return on fixed assets	? 31542879 including Residential, Plant & machinery & capitalized expenditure etc.	Appears to be correct.	NIL
9k	Scrutiny of Annual return on mining machineries	1.Excavator- 1.5 Cum-1 no & 0.5 Cum- 1 no. 2.Tipper-9.17 Cum-1 no. 3.Water sprinkler-8 KL-1 no.	Appears to be correct.	NIL

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)	12-DEC-22	03-MAR-23				
MCDR17	Rule 31(4)	12-DEC-22	03-MAR-23				
MCDR17	Rule 33	12-DEC-22	03-MAR-23				
MCDR17	Rule 34(2)	12-DEC-22	03-MAR-23				
MCDR17	Rule 35(2)	12-DEC-22	03-MAR-23				
MCDR17	Rule 47(a)	12-DEC-22	03-MAR-23				
MCDR17	Rule 48	12-DEC-22	03-MAR-23				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines