

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

**MCDR inspection REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/455/BNG

**Mine code :** 30KAR03160

- (i) Name of the Inspecting : **S19** ) **SANDEEP KUMAR SINGH**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : J.Srikanth -Manager & Mining Engineer ,Rashmi Ranjan  
Official with  
Designation
- (iv) Date of Inspection : 18/01/2023
- (v) Prev.inspection date : 28/09/2021

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAMGAD ML 2547**
- (b) **Registration NO.** : **IBM/1010/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BELLARY**
- Village : **RAMGHAD POST**
- Taluka : **SANDUR**
- Post office : **RAMGHAD**
- Pin Code :
- FAX No. : **08392-240462 (F),**
- E-mail : **ztco2000@yahoo.com**
- Phone : **08392-240085 (O),984408500**
- (f) **Police Station** : **SANDUR**
- (g) **First opening date** : **01/01/2008**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/S.ZEENATH TRANSPORT COMPANY,**  
**24, ZEENATH HOUSE,COWL BAZAR,**  
**BELLARY - 583102**
3. (a) **Lease Number** : **KAR0262**
- (b) **Lease area** : **36.42**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **03/06/2021**
4. **Mineral worked** : **IRON ORE** **Main**

## 5. Name and Address of the

Lessee : ZEENATH TRANSPORT COMPANY  
 ZEENATH HOUSE, COWL BAZAAR,  
 BELLARY, BELLARY KARNATAKA  
 Phone:40462,40085  
 FAX :

Owner : SYED AHMED  
 BELLARY KARNATAKA  
 Phone: 08392 - 260225  
 FAX : 08392- 240462

## Geologist

Name : RASHMI RANJAN SAHU, Full Time  
 Qualification : MSC Geology  
 Appointment/ : 21/11/2022  
 Termination date

## Manager

Name : J.SHRIKANT  
 Qualification : FCC  
 Appointment/ : 11/05/2009  
 Termination date

## Manager

Name : J.Srikanth  
 Qualification : B.E.MINING  
 Appointment/ : 01/10/2018  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	06/04/2004
		Modif.of approved Mining Plan	02/04/2008
		Modif.approved Mining Scheme	12/08/2010
		Mining Scheme rule 12 MCDR1988	06/12/2012
		MS modif under MCR 1960	21/08/2014
		Modif.of approved Mining Plan	09/06/2016
		MP review under 17(1) MCR 2016	08/11/2016
		MP review under 17(1) MCR 2016	03/01/2021

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	No exploratory proposal for 2021-22	NIL	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	G-1-13.75 ha, G-2-33.42 ha G-3-2.56 ha	G-1-13.75 ha, G-2-33.42 ha G-3-2.56 ha	As per the last approved document dated 03/01/2022. For the year 2022-23, 6 boreholes proposed with total meterage 300 m. Form-I submitted for commencement of exploratory drilling dated 28.12.22. Exploratory drilling in progress.
1e	Balance reserve as on 01/04/20	72,11,731 tons with Fe grade +45-66% as on 31.03.2021.	6742031 tons as on 1.04.2022	As reported in AR 2021-22.
1f	General remarks of inspecting officers on geology, exploration etc			As per the last approved document dated 03/01/2022 for the year 2022-23, 6 boreholes proposed with total meterage 300 m. Form-I submitted for commencement of exploratory drilling dated 28.12.22. Exploratory drilling in progress.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1667619 To N1667892 E660908 To E661164. N1667619 TO 1667892 E660908 TO 661164(Sec-F-F' to G-G', L-L', Ll-Ll' & M-M')	Mineral stacks were found at sec G-G' (N-1668137, E-660646) which is not the proposed location for mineral stacking. Further development of benches systematically from 974mRL to 959 mRL at Section G-G', as proposed for year 2022-23 have not been carried out as per proposal.	Violation issued under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed for OB and mineral proposed	Mineral stacks were found at sec G-G' (N-1668137, E-660646) which is not the proposed location for mineral stacking. Further development of benches systematically from 974mRL to 959 mRL at Section G-G', as proposed for year 2022-23 have not been carried out as per proposal.	Violation issued under Rule 11(1) of MCDR 2017.
2c	Stripping ratio or ore to OB ratio	1: 0.10 proposed (In tons)	1: 0.10 achieved (In tons)	ROM-4,69,700 tons OB-50,100 tons (As reported in AR 2021-22)
2d	Quantity of topsoil generation in m3	No proposal	NIL	NIL
2e	Quantity of overburden generation in m3	50,108 tons~25,054Cu. m. proposed	50,100 tons~ 25,050Cu.m. achieved	As reported in AR 2021-22

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mineral stacks were found at sec G-G' (N- 1668137, E-660646) which is not the proposed location for mineral stacking. Further development of benches systematically from 974mRL to 959 mRL at Section G-G', as proposed for year 2022-23 have not been carried out as per proposal. Violation issued under Rule 11(1) of MCDR 2017.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed	One pit	NIL
3b	Quantity of ROM mineral production proposed	4,80,000 tons proposed	4,69,700tons 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	Crusher 100 TPH-2Nos. Screening 150TPH-2Nos.	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 & blasting proposed in mineral benches	Drilling & blasting carried out. Slurry Exploration in conjunction with detonators	The drill machine details have not been provided in Sec.5 of Part-V. Violation issued under Rule 45(7) of MCDR 2017.
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed.	1. Back Hoe 2.20 cum - 2 nos. 2. Wheel Loader 3.00 cum - 2 nos. 3. Tipper 16.cum - 8nos. 4. Water Tanker 12000.00 ltr. - 4 nos. 5. Crusher 100.00 T/H - 2 nos. 6. Back Hoe 1.600 cum - 1.	As reported in AR 2021-22.The drill machine details have not been provided in Sec.5 of Part-V. Violation issued under Rule 45(7) of MCDR 2017.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench Height- 7.5 m for both OB & mineral	Bench height of 7.5 m maintained.	9 benches in ore and 4 benches in OB(As reported in AR 2021-22).

3m	Total area covered under excavation/pits	14.45 Ha.as on 14.45 Ha 30.09.2021 as per the latest approved document dated 03/01/2022	The land use (area in ha) as given in Part-I (12) under 12(ii), i.e., Covered under current(O/C) workings,12(iv) i.e., Used for waste disposal,12(v) i.e., Occupied by plant, buildings, residential, welfare buildings & roads&12(vi) i.e., other purpose have not been reported correctly in accordance with approved land use pattern of the last approved RMP dated 03/01/2022. Violation issued under Rule 45(7) of MCDR 2017.
3n	Ore to OB ratio for the pit/mine during the year. (In tons)	1: 0.10 proposed (In tons)	1: 0.10 achieved (In tons) ROM-4,69,700 tons OB-50,100 tons (As reported in AR 2021-22)

3o	Total area put in use under different heads at the end of year	Area under Mining - 14.45Ha, Waste Dump- 7.85 Ha Infrastructure & roads - 3.80 Ha (As on 30.09.2021) as per the latest approved document dated 03/01/2022	Covered under current (O/C) workings - 14.45Ha, Used for waste Disposal - 7.85 Ha. Occupied by plant, buildings, residential, welfare buildings & Roads - 3.80 Ha	The land use (area in ha) as given in Part-I (12) under 12(ii), i.e., Covered under current(O/C) workings,12(iv) i.e., Used for waste disposal,12(v) i.e., Occupied by plant, buildings, residential, welfare buildings & roads& 12(vi) i.e., other purpose have not been reported correctly in accordance with approved land use pattern of the last approved RMP dated 03/01/2022. Violation issued under Rule 45(7) of MCDR 2017.
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 4,80,000 2018-19: 4,80,000 2019-20: 4,80,000 2020-21: 4,80,000 2021-22: 4,80,000	2017-18: 4,79,700 2018-19: 4,79,820 2019-20: 4,80,000 2020-21: 4,80,000 2021-22: 4,69,700	NIL



3q	General remarks of inspecting officers on method of mining etc.	i)The land use (area in ha) as given in Part-I (12) under 12(ii), i.e., Covered under current(O/C) workings,12(iv) i.e., Used for waste disposal,12(v) i.e., Occupied by plant, buildings, residential, welfare buildings & roads& 12(vi) i.e., other purpose have not been reported correctly in accordance with approved land use pattern of the last approved RMP dated 03/01/2022. Violation issued under Rule 45(7) of MCDR 2017.	ii)The drill machine details have not been provided in Sec.5 of Part-V. Violation issued under Rule 45(7) of MCDR 2017.
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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 OB proposed at AD-1 dump	Separate OB dumping carried out at AD-1 waste dump.	NIL
4b	Location of topsoil, OB and mineral reject dumps	AD-1 Waste dump-N1667353-1667456 E 661321-661415	OB dumping carried out at waste dump-AD-1 within the proposed extent as per the proposal.	NIL
4c	Number of dumps within lease area and outside of lease area	Two waste dumps within the lease-(AD-1 & ID-1)	Two waste dumps within the lease-(AD-1 & ID-1)	One active dump (AD-1) and one inactive dump (ID-1) within ML.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Both AD-1 & ID-1 waste dump located outside UPL as per the current exploration data	Both AD-1 & ID-1 waste dump located outside UPL as per the current exploration data	One active dump (AD-1) and one inactive dump (ID-1) within ML.
4e	Number of active and alive dumps.	One active dump(AD1) proposed	One active dump (AD-1)	NIL

4f	Number of dead dumps.	One dead dump- (ID-1)	One dead dump-(ID-1)	NIL
4g	Number of dumps established.	No proposal	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Existing Retaining wall & garland drain maintained.	Existing Retaining wall & garland drain maintained	NIL
4i	Length of Retaining wall or garland drain all along dumps	No proposal for the year 2021-22	NIL	NIL
4j	Number of settling ponds	No proposal for the year 2021-22	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management			The satellite image has not been submitted in accordance with the Standard Operating Procedures under sub rule (2) of rule 34A of MCDR, 2017 for submission of Satellite Imageries. The submitted image resolution is 1.6 m which is not as per the SOP. Also, the establishment of Ground Control points, Data output and formats, Output data submission form for satellite image for the year, have not been done in accordance with the SOP. Violation issued under Rule 34A(2) of MCDR 2017.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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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.			No backfilling proposals.

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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).	Annual report on PMCP to be submitted before 1st of July every year.	Annual PMCP Report is Submitted on 31.05.2022.	NIL
6b	Area available for rehabilitation (ha) .	No proposal	NIL	NIL
6c	afforestation done (ha).	Gap filling Area	Gap filling done in safety zone (0.2Ha), inactive dump&inactive portion of active dump (0.9Ha).	NIL
6d	No. of saplings planted during the year	Safety zone= 250 saplings Dump= 250 Saplings plantation proposed	Safety zone= 450 saplings Dump= 2150 saplings Total =2600 saplings planted.	As reported in Annual PMCP report 2021-22.

6e	Cumulative no .of plants	Not specified	24490 saplings cumulative in safety zone/Green belt and 44310 saplings on inactive dumps as on 1.04.2022.	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	Rs. 12,500 for dump management and 1,60,000 for desilting and maintenance of existing R&R structures, Rs. 12,500 for green belt plantation and watch & care proposed. (Total. Rs. 1,85,000)	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)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	250 saplings plantation proposed in green belt Gap plantation.	450 saplings planted	Gap filling done in Safety Zone/green belt.
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 core zone & buffer zone	Environmental monitoring carried out in core zone & buffer zone for Air, water, noise & soil as per the proposal. Jan-22 report available for air, water, and Dec-21 for noise during inspection. Parameters within limit	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP proposals implemented inside the mine as per the proposal.

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**Mineral Conservation:**

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dry crushing & Screening plant.	Screening plant - 150TPH- 2Nos. Crusher - 100 TPH-2Nos. Products are Fines(-10mm), Lumps(5-20mm, 10-40mm).	NIL

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Dry crushing & screening proposed with grade wise sorting.	Lumps : Below 55% 55-58% 58-60% 60-62% Fines : Below 55% 55-58%	Grade as reported in AR 2021-22.
7c	Different grade of mineral sorted out at mines.	Dry crushing & screening proposed with grade wise sorting.	Lumps : Below 55% 55-58% 58-60% 60-62% Fines : Below 55% 55-58%	Grade 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			Mineral stacks were found at sec G-G' (N- 1668137, E-660646) which is not the proposed location for mineral stacking. Violation issued under Rule 11(1) of MCDR 2017.

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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)	Proposed separate dump for waste /OB (AD-1)	Separate dump for waste /OB maintained at AD-1	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)	Not specified	24490 saplings cumulative in safety zone/Green belt and 44310 saplings on inactive dumps as on 1.04.2022.	As reported in Annual PMCP report 2021-22.
8g	Survival rate	Not mentioned	80% achieved	As reported in AR 2021-22.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control airborne dust	Water sprinkling carried out inside the mine through 12 KL -4 nos. of water tankers to control airborne dust	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mine was good.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly Returns submitted up to December 2022 on 09.01.2023 Annual Returns submitted up to 2021-22 on 29.06.2022	Monthly Returns submitted up to December 2022 on 09.01.2023 Annual Returns submitted up to 2021-22 on 29.06.2022	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri. J Srikanth - Mining Engineer cum Manager Sri. N. Sivaprasad - Geologist.	Appears to be correct.	Sri. Rashmi Ranjan Sahu- Geologist has joined in place of N.Sivaprasad on 21.11.2022. Form-H submitted on 21.11.22
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) workings - 16Ha, Used for waste Disposal - 7Ha. Occupied by plant, buildings, residential, welfare buildings & Roads - 2.65 Ha	Part-I: The land use (area in ha) as given in Part-I (12) under 12(ii), i.e., Covered under current(O/C) workings ,12(iv) i.e., Used for waste disposal ,12(v) i.e., Occupied by plant, buildings, residential, welfare buildings & roads & 12(vi) i.e., other purpose have not been reported correctly in accordance with approved land use pattern of the last approved RMP dated 03/01/2022.	Violation issued under Rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	Within lease area= 2600 saplings@ 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: O/s - 300.00Tons, production - 4,69,700 .00 tons, C/s - 22,000.00 tons Graded Ore O/s- 3,02,756 tons Production- 4,48,000 tons Despatch- 2,36,074.4 tons C/s- 5,14,681.6 tons. (Includes both lumps & fines)	Appears to be correct.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production =Rs.908.13 /ton,  Ex- mine price: Lumps: 55 to 58% Fe- 6806 Rs/ton. 58 to 60% Fe- 6179 Rs/ton. 60 to 62% Fe: 6370 Rs/ton,  Fines: Below 55% Fe - 943 Rs/ton. 55 to 58% Fe - 2458 Rs/ton., 58 to 60% Fe - 3213 Rs/ton.	Appears to be correct.	NIL

9h	Scrutiny of Annual return on fixed assets	Rs.1,83,14,202 /-including plant machinery and transport equipment	The details of Royalty paid have not been reported in Part-III(2)(a).The DMF and NMET amount has not been reported correctly in Part-III (5)(c).	Violation issued under Rule 45(7) of MCDR 2017
9k	Scrutiny of Annual return on mining machineries	1.Back Hoe 2.20 cum - 2 nos. 2. Wheel Loader 3.00 cum - 2 nos. 3. Tipper 16.cum - 8nos. 4. Water Tanker 12000.00 ltr. - 4 nos. 5. Crusher 100.00 T/H - 2 nos. 6. Back Hoe 1.600 cum - 1.	The drill machine details have not been provided in Sec.5 of Part-V.	Violation issued under Rule 45(7) of MCDR 2017

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**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)	09/02/2023		MCDR17 Rule 45(7)	09/02/2023	03/03/2023
MCDR17 Rule 34(2)	09/02/2023				
MCDR17 Rule 45(7)(a)	09/02/2023	03/03/2023			

**Date :**

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines