

1/21062/2023

**MCDR inspection REPORT**

**Bangalore regional office**

**Mine file No :** KNT/CTD/FE/34/BNG

**Mine code :** 30KAR07015

- (i) Name of the Inspecting : **S006** ) **DR.SURESH PRASAD**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Dhananjaya G. Reddy -Mining Engineer, Ranadive.N - Mi  
Official with  
Designation
- (iv) Date of Inspection : 16/09/2023
- (v) Prev.inspection date : 15/07/2021

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **JOHN**
- (b) **Registration NO.** : **IBM/167/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : KARNATAKA  
District : CHITRADURGA  
Village : MEGALAHALI  
Taluka : CHITRADURGA  
Post office : SIRIGERE  
Pin Code : 577541  
FAX No. : 080-22440795 (F),  
E-mail : mail@ermgroup.in  
Phone : 080-26655930 (O),944984234.
- (f) Police Station : BARAMASAGARA
- (g) First opening date : 04/02/1977
- (h) Weekly day of rest : SUN
2. Address for : Mr RAMAMURTHY PRAVEEN CHANDRA  
correspondance NO 59, 12 th MAIN, BANASHANKARI, Ist STAGE,  
BANGALORE-560050
3. (a) Lease Number : KAR1088
- (b) Lease area : 42.13
- (c) Period of lease : 50
- (d) Date of Expiry : 03/02/2047
4. Mineral worked : IRON ORE Main

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## 5. Name and Address of the

Lessee : R.PRAVEEN CHANDRA,  
NO 59, 12 th MAIN,  
BANASHANKARI, Ist STAGE,  
BANGALORE-560011 BANGALORE  
KARNATAKA  
Phone:08194 - 230565, 080 - 26655930  
FAX :080 - 22440795

Owner : R.PRAVEEN CHANDRA  
NO 59, 12 th MAIN,  
BANASHANKARI, Ist STAGE,  
BANGALORE-560050 BANGLORE  
URBAN KARNATAKA  
Phone: 08026655930  
FAX : 080224407095

## Mining Engineer

Name : DHANANJAYA . G.REDDY,Full Time  
Qualification : B.E (MINING), GM MINES  
Appointment/ : 01/02/2008  
Termination date

## Geologist

Name : B.S.VINAYAKA,Full Time  
Qualification : M.SC GEOLOGY  
Appointment/ : 01/02/2008  
Termination date

## Manager

Name : N.RANADIVE  
Qualification : DIP MINING,MANAGER'S II ND CCC  
Appointment/ : 19/04/2013  
Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	04/01/1991
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	14/12/1999
		Mining Scheme rule 12 MCDR1988	06/03/2003
		Modif.approved Mining Scheme	28/10/2004
		Modif.approved Mining Scheme	22/08/2006
		Mining Scheme rule 12 MCDR1988	11/05/2007
		Mining Scheme rule 12 MCDR1988	12/09/2012
		Modif.of approved Mining Plan	03/06/2016
		MP review under 17(1) MCR 2016	09/11/2016
		MP review under 17(1) MCR 2016	19/03/2020
		MP review under 17(1) MCR 2016	13/12/2021
		MP modif under 17(3) MCR 2016	03/02/2023

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	The entire Mining Lease area has been explored under G-1 level in the past.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire Mineralized area is explored in G1	Out of 42.13Ha., 20.74 Ha., is Mineralized area is explored in G1	14boreholes areproposed during 2025-26 to ensure the mineral continuity.
1e	Balance reserve as on 01/04/20	37.36 million tones	3,73,65,664 Tonnes	Depleted Reserves from 01-04-2022 to 31-10-2022 is 660491 & 01-11-2022 to 31-03-2023 is 739359 total qty 1399850 Tonnes.

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1f	General remarks of inspecting officers on geology, exploration etc	Iron Ore formation in the lease area is bedded, stratiform and tabular deposits of homogenous, regular sedimentary and metasedimentary basins without significant structural deformations. Total strike length of the ore body within the lease area is about 800m and average width of 130m and depth extending upto 230m. The entire Mining Lease area has been explored under G-1 level in the past. However, 14 boreholes are proposed during 2025-26 to ensure the mineral continuity.
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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	E-629558-629971, N-1573260-1574020 922-874m	E-629558-629971, N-1573260-1574020 922-874m	The workings are well within the proposed grid intervals and UPL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposal of Separate benches in overburden and mineral	Developed and maintained separate benches in Over Burden and mineral.	In ore -4 Benches & waste - 2 are maintained.
2c	Stripping ratio or ore to OB ratio	1:0.108	1:0.108	Waste as per proposal.
2d	Quantity of topsoil generation in m3	No proposals of top-soil during the RY	No top soil generated	There is no top soil in field.

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2e	Quantity of overburden generation in m3	1,51,992 Cum	1,51,412 Cum	Development quantity is as per the proposals approved.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine is a open cast mechanized mine with common boundary working proposals with the adjoining lessee on the North Western and south eastern boundary as the deposit is cutting across the lease in the center portion and extending into the adjoining lease. The mine is systematically developed suitably for this type of deposit with 2 benches in the waste and 4 benches in the ore.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed during RY	Single Pit Dimension is 800x296x48mtrs	Workings are limited to single pit.
3b	Quantity of ROM mineral production proposed	13,99,991 tonnes	13,99,850tonnes	Production achieved is well within the proposed quantity.
3c	Recovery of sailable/usable mineral from ROM production	100 % of RoM is salable	100 % of RoM is salable	Separate benches in waste and ore is maintained all the ore generated are processed.
3d	Quantity of mineral reject generation	No mineral reject	No mineral reject	
3e	Grade of mineral rejects generation and threshold value declared.	No Sub-Grade	No Sub-Grade	
3f	Quantity of sub grade mineral generation.	NA	NA	

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3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method by dry crushing and screening of ROM	Mechanised method by using Fixed plant and 3no's Mobile screening plants.	Fixed Plant - 01 of 300TPH Screening Plant - 03 of 250 TPH capacities.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals for beneficiation studies.	No proposal for subgrade/mineral rejects.	However it is reported that beneficiation study report is received from IMMT Bhubaneswar for enhancing the grade of hematic siliceous ore (Fe +35 to -45).
3j	Provision of drilling and blasting in mineral benches	Lessee has proposed for Drilling and Blasting	Used ripper dozer for scrapping of hard strata during the RY.	Reportedly No blasting has been carried out in 2022-23.
3k	Provision of mining machineries in mineral benches	Excavators-6 no's Dumpers-14 no's Wheel Loader-4 no's Ripper-Dozer-1 no Water Tanker-6 no's Wagon Drill-1 no	Excavators-5 no's Dumpers-14 no's Wheel Loader-4 no's Ripper-Dozer-1 no Water Tanker-6 no's Wagon Drill-1 no	The reported Machinery were found deployed in the Mine on day of inspection.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes. Proposal of 7 meters height in Ore and Over Burden.	Bench height maintained at 7 meters in Ore and Overburden	Bench height and width are found well maintained as per proposal.
3m	Total area covered under excavation/pits	20.74 Ha.	20.74 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.108	1:0.108	Stripping ratio due to less recovery from dump working.

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3o	Total area put in use under different heads at the end of year	Mining: 20.74 Ha, Dumps: 9.32 Ha, Infrastructure :1.00 Ha, Mineral Stock yards: 6.30 Ha, Mineral Processing Plant: 1.86 Ha, Green Belt: 1.91 Ha, Afforestation: 1.00 Ha	Mining: 20.74 Ha, Dumps: 9.32 Ha, Infrastructure:1.00 Ha, Mineral Stock yards: 6.30 Ha, Mineral Processing Plant: 1.86 Ha, Green Belt: 1.91 Ha, Afforestation: 1.00 Ha	No additional area proposed and utilized.
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 7,50,000MT 2019-20: 7,50,000MT 2020-21: 14,00,000MT 2021-22: 14,00,000MT 2022-23: 13,99,991MT	2018-19:7,49,938 MT 2019-20: 7,49,970 MT 2020-21: 13,29,970MT 2021-22: 13.28.570MT 2022-23: 13,99,850MT	
3q	General remarks of inspecting officers on method of mining etc.			The method of mining is by open cast method of mining suitable for the type of deposit.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for dumping of Top Soil and Rejects during the RY. Proposal of separate dumping of Over Burden.	No proposal for Topsoil & Mineral Rejects. Separate dumping of Over burden has been carried out in earmarked area.	Dumping of waste is done in a separate dump AD-01as proposed. No Top Soil/ Mineral Reject reported during the RY.
4b	Location of topsoil, OB and mineral reject dumps	N-1573400 to 1573660 E-629900 to 630040 RL-891-881m	N-1573400 to 1573660 E-629900 to 630040 RL-891-881m	Dumping in the Active Dump - AD-01

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4c	Number of dumps within lease area and outside of lease area	One dump within lease area. No proposal of dumping outside lease area	One dump within lease area. No dumps outside lease area	No dumping outside the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N-1573400 to 1573660 E-629900 to 630040 RL-891-881m	N-1573400 to 1573660 E-629900 to 630040 RL-891-881m	Dumping is located outside the UPL.
4e	Number of active and alive dumps.	Only one active & alive dump	Only one active & alive dump - AD-1	Single Dump active & alive - AD - 01.
4f	Number of dead dumps.	One dump ID-1	One dump ID-1	
4g	Number of dumps established.	One dump ID-1	One dump ID-1	Stabilized by coir matting and Plantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	YES	Except present active dump all other dump toe seen constructed with retaining wall and garland drains.
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall - 50mtr. Garland Drain Not proposed	Retaining Wall - 140mtr.	Present on the field cross checked during inspection.
4j	Number of settling ponds	Not proposed	Not proposed	1 Settling Pond with dimension 45.0 x 15.0 x 2.50
4k	Specific comments of inspecting officer on waste dump management			The waste dumps are located outside the UPL. One inactive dump is fully stabilized with terraces including coir matting, Plantation and retaining wall. The Active dump is also maintained well with terraces and inactive part is stabilized with plantation and retaining wall.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Nil

## 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).	Before 31st July of 2023	PMCP report has been submitted on 17June 2023	
6b	Area available for rehabilitation (ha) .	No proposals for the RY 2022-23	Not applicable.	
6c	afforestation done (ha).	1.75 Ha.,	1.49Ha.,	
6d	No. of saplings planted during the year	4,375no's	17,180 no's of plants planted,.	
6e	Cumulative no .of plants	45,042 No's	58,222 No's	
6f	Any other method of rehabilitation	No proposals	Not applicable.	
6g	Cost incurred on watch and care during the year	Rs.1,79,375	Rs. 7,04,380	

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposals	Not applicable.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	Not applicable.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposals	Not applicable.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	Not applicable.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals	Not applicable.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	No Proposal
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	No Proposal
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	No Proposal

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6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment Monitoring for AAQM, Fugitive Emissions, Surface, Ground Water Quality, Noise Monitoring proposed in Core and Buffer zone	The Environment Monitoring in Core and Buffer zone carried out through M/s.Metamorphosis Laboratory Pvt. Ltd., NABET approved and NABL accredited laboratory	Total number of samples in core and buffer zone for Air-08, Noise-09, Water-11 and soil-05 no's
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			All the proposed PMCP activities are carried out satisfactorily.

## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise mineral sorting within lease area	Production during 2022-23 are as follows Fines: Grade Qty in tonnes 55-58,06,064 58-60,24,396 60-62 44,000 Lumps: Grade Qty in tonnes 55-58,815 58-60,746 60-62 2,776 62-65 1,99,053	The data is matching with the AR submitted for the FY 2022-23
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines.	Fines & Lumps of: 55-58 % 58-60 % 60-62 % 62-65 %	Fines: Grade Qty in tonnes 55-58 5,06,064 58-60 5,24,396 60-62 44,000 Lumps: Grade Qty in tonnes 55-58 1,815 58-60 1,746 60-62 2,776 62-65 1,99,053	The data is matching with the AR submitted for the FY 2022-23

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7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Low grade ore encountered is suitably blended with high grade ores to arrive at marketable grade thereby taking care of mineral conservation aspects.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal for Removal or utilization of top soil	Mining Area is devoid of top soil.	No Top Soil
8b	Concurrent use or storage of topsoil	No Proposals for the RY	No usage or storage of top soil is carried out for the RY	No Top Soil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for separate dumps in OB and Ore Stacks. No Proposals for Rejects during the RY.	Separate dump for OB and mineral stocks are maintained at ear marked area.	OB are dumped outside the UPL within the earmarked place.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	Not Applicable.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals during the Reporting Year	Not Applicable.	

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Prior to mining, the lease area was under forest with dry Deciduous type -2 forest enriched with Shrubs and Grasses. 2900	Inside the lease 58222 Saplings with 65 % Survival rate and Out-side the lease area 280316 saplings planted with 45 % survival rate.	
8g	Survival rate	60 %	65%	
8h	Water sprinkling on roads to control airborne dust	Dust suppression using water tankers, dry fog dust suppression system.	On haul roads Static sprinklers have been fixed. 5 no's water tankers are engaged for water spraying. Mineral processing plant is covered with GI hood cover and dry fog dust suppression systems has been installed. Truck mounted dry fogdust suppression system is used to mitigate air borne dust pollutants. Use of Geo textile coir mats on inactive terraces are seen which mitigate air borne dusts.	Sprinklers along the entrance haul road, Pressurized water spraying tanks, air borne dust suppressing system. fog system in plant etc.,
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Over the period the aesthetic beauty in and around the mine has significantly improved by extensive plantation activity carried out by the lessee in and around the mines area.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns submitted up to Aug'2023on 06-09-2023 Annual returns submitted up to 2022-23 28-06-2023.	Submitted within the date.	

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- 9b Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager
- |                                     |   |                                     |
|-------------------------------------|---|-------------------------------------|
| Mining Engineer:Dhana njayaG. Reddy | Mining Engineer: Dhana DhananjayaG. Reddy | Mining Engineer: DhananjayaG. Reddy |
| Geologist:Vina yaka.B.S             | Geologist:Vina yaka.B.S                   | Geologist:Vinayaka.B.S              |
| Manager:Ranadi ve.N                 | Manager:Ranadi ve.N                       | Manager:Ranadive.N                  |
- 9c Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.
- |  |  |  |
|--|--|--|
| Mining Area:20.74 Ha                   | Mining Area:20.74 Ha                   | Mining Area:20.74 Ha                   |
| Dumping:9.32 Ha                        | Dumping:9.32 Ha                        | Dumping:9.32 Ha                        |
| Stocks, roads, Infrastructure: 9.16 Ha | Stocks, roads, Infrastructure: 9.16 Ha | Stocks, roads, Infrastructure: 9.16 Ha |
| Others: Afforestation: 2.91 Ha         | Others: Afforestation: 2.91 Ha         | Others: Afforestation: 2.91 Ha         |
| Others: Afforestation: 2.91 Ha         | Others: Afforestation: 2.91 Ha         | Others: Afforestation: 2.91 Ha         |
- 9d Scrutiny of Annual return on afforestation
- |  |  |   |
|--|--|---|
| Saplings with 17180 saplings planted in lease area | Saplings with 17180 saplings planted in lease area | 17180 saplings planted with in lease area and 13554 saplings planted outside lease area |
|--|--|---|
- 9e Scrutiny of Annual return on mineral reject generation (Grade and quantity)
- |                                |                                |                                |
|--------------------------------|--------------------------------|--------------------------------|
| Mineral Reject Generation: Nil | Mineral Reject Generation: Nil | Mineral Reject Generation: Nil |
|--------------------------------|--------------------------------|--------------------------------|

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	RoM Stock: 150,000 Tonnes. Closing Stock of Fines <55 32000 55-58 316806 58-60 5998 60-62 19135 62-65 83 >65 0 Total 374022  Lumps <55 45129 55-58 10508 58-60 4002 60-62 4002 62-65 177689 >65 0 Total 241330	RoM Stock: 150,000 Tonnes. Closing Stock of Fines <55 32000 55-58 316806 58-60 5998 60-62 19135 62-65 83 >65 0 Total 374022  Lumps <55 45129 55-58 10508 58-60 4002 60-62 4002 62-65 177689 >65 0 Total 241330	The data is matching with the AR submitted for the FY 2022-23
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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

**Date :****(DR.SURESH PRASAD)**

Indian Bureau of Mines