

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

**MCDR INSPECTION REPORT**

**Bangalore regional office**

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

**Mine code :** 30KAR07015

- (i) Name of the Inspecting : **A101** ) **ARUN KUMAR**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : 1)Ranadive. N- Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 08/09/2017
- (v) Prev.inspection date : 05/01/2016

**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,ERMGROUP@  
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-560011
3. (a) Lease Number : KAR1088
- (b) Lease area : 42.64
- (c) Period of lease : 20
- (d) Date of Expiry : 03/02/2017
4. Mineral worked : IRON ORE Main

## 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-560011 BANGLORE  
URBAN KARNATAKA  
Phone:  
FAX :

## Mining Engineer

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

## Geologist

Name : DEEPAK.C.A,Full Time  
Qualification : MSc (App Geo), DM(Geo).  
Appointment/ : 26/01/2012  
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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	No Proposal of exploration as per approved Modification to approved Mining Plan
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	Earlier mineralized zone has been explored for G1 axis.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Exploration was carried out In-house. Part of exploration drilling was outsourced to M/s. Fortune Drilling Private Ltd., Hyderabad and to M/s. Kanaka Borewells, C'durga. An amount of ₹3.59 crores has been spent on exploration.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Mineralized zone covering 21.59 ha has been explored.
1e	Balance reserve as on 01/04/20		3,07,26,283 metric tonnes as on 01.04.2017	
1f	General remarks of inspecting officers on geology, exploration etc			There is no proposal of exploration in the plan period. Mineralized zone covering 21.59 ha has been explored

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1573200-1573970 E629660-629870 RL-962 to 881m	As per proposal.With in the drid values	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil -Nil Over Burden Benches to be maintained Separately	Top Soil-Nil Over Burden Benches - Separate maintained	Complied
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.05	Complied
2d	Quantity of topsoil generation in m3	NO proposal	Not Applicable	
2e	Quantity of overburden generation in m3	29,758 m3	28,758 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The developments were done as per the proposal , with stripping ratio of 1:0.05.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	Complied
3b	Quantity of ROM mineral production proposed	7,50,000 tons	7,49,911 tons	Complied
3c	Recovery of sailable/usable mineral from ROM production	7,50,000 tons	7,49,911 tons	Complied
3d	Quantity of mineral reject generation	No Proposal	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	NA	Nil
3f	Quantity of sub grade mineral generation.	No Proposal	During exploitation, low grade <55 % Fe material of 7610 sold in E-auction	
3g	Grade of sub grade mineral generation	No Proposal	53% Fe	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	As per proposal	Complied
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Not applicable	Previous years Preliminary Mineral Characterization and Mineral beneficiation studies on Siliceous Ore and low-grade ores has been carried out at IMMT Bhubaneshwar. Old mineral rejects dumps dumped during the past is proposed to be mined during 2017-18 as dump workings.
3j	Provision of drilling and blasting in mineral benches	Yes, Provision of drilling & Blasting proposed.	Valid explosive license and portable explosive magazine; drilling and blasting is used whenever required to loosen the very hard material. Ripper dozer is used for exploitation of hard strata.	In place
3k	Provision of mining machineries in mineral benches	Yes, Provision of mining machineries in mineral benches	Excavators-3 No's- 1.8 Cum Wheel Loaders-2 numbers- 1.7 Cum, Ripper Dozer-D275A-450HP Dumper-25 tonner-5 numbers Tipper-10 tonnes-10-numbers.	Complied
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height-7 meters in Ore and Waste	Bench Height-7 meters in Ore and Waste	Complied
3m	Total area covered under excavation/pits	7.21 ha	7.21 ha	Complied
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.05	Complied

3o	Total area put in use under different heads at the end of year	42.13 ha	Appeared to be correct		
3p	Production of ROM mineral during the last five year period as applicable	2012/13-350000 MT 2013/14-350000 MT 2014/15-350000 MT 2015/16-350000 MT 2016/17-750000 MT	2012/13-349042 MT 2013/14-349969 MT 2014/15-349600 MT 2015/16-349974 MT 2016/17-749911 MT		Actual not exceeding the proposed quantity
3q	General remarks of inspecting officers on method of mining etc.				Working as per the proposal except that the benches have not advanced to the extent planned. Very well formation of benches with due regard to slope angle , bench height & width.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top Soil-No Proposal OB- Dumping of waste separately	Top Soil- Not applicable. OB-Dumping of waste carried out in enmarked area	Complied
4b	Location of topsoil, OB and mineral reject dumps	OB dump- N1573620- 1573940 E629960-630000	Within the specified grid values	Dumping carried out within grids. Dumping was supposed to be in two lifts of 10 meters and 7 meters but only a single lift has been made.Violation pointed out
4c	Number of dumps within lease area and outside of lease area	One dump- Within lease. Outside lease- Nil	One dump-Within lease. Outside lease- Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Active Dump is outside UPL	Active Dump is outside UPL	Complied
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	No proposal	NA	Part of dump covering over 1.59 ha is inactive which has been afforested.
4g	Number of dumps established.	Nil	Part of the dump stabilized	Gap Plantation within existing afforestation areas of 1.59 ha carried out during 2016-17.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes.	Yes.	Complied
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	NA	Retaining wall-637 meters. Garland drain-527 meters in previous years
4j	Number of settling ponds	No proposal	NA	One settling pond has been made.
4k	Specific comments of inspecting officer on waste dump management			Dumping is as per the proposal. Terracing has not been done as per plan. Gap plantation has been done on the dumps

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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	Not applicable	Not applicable
5b	Area under backfilling of mined out area	No proposal	Not applicable	Not applicable

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.			None of the areas of mined out pits were matured for backfilling due to occurrence of mineral at depth.

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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).	Yes. To be submitted Annually	Yes. Annual report of PMCP submitted on time.	Complied
6b	Area available for rehabilitation (ha) .	No Proposal	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Not Applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Gap Plantation within lease area-500 numbers	3180 saplings planted.	Afforestation as Gap plantation within existing afforested area of 0.8 ha carried out.
6p	Compliance of environmental monitoring (core zone and buffer zone)	AAQM, Surface, Ground water and Noise to be Monitored	AAQM, Surface and Ground water monitored through M/s. Metamorphosis and Noise monitored inhouse	Complied



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP activities were carried out as per the approved plan and plantation done, construction of retaining wall and garland drains were in place.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	7,50,000 MT - dispatch	5,83,681 MT -Dispatches	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	Complied
7c	Different grade of mineral sorted out at mines.	Grade wise stocking proposed.	LUMPS Production (a) Below 55% 8728 (b) 55% to below 58% 32815 (c) 58% to below 60% 8441 (d) 60% to below 62% 0 (e) 62% to below 65% 80419 (f) 65% and above 0 FINES (a) Below 55% 7610 (b) 55% to below 58% 36000 (c) 58% to below 60% 319053 (d) 60% to below 62% 24340 (e) 62% to below 65% 232505	
7d	Any beneficiation process at mines	Dry Crushing and Screening.	Dry Crushing and Screening.	Complied
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			All the ROM except fines are crushed and screened. The fines and Lumps are segregated and sold in the domestic market.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	NA	
8b	Concurrent use or storage of topsoil	No Proposal	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, overburden stacked separately	overburden stacked separately	Complied
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Available	Within ML area 3180 saplings & outside the ML area 25426 saplings with survival rate of 45% during the year 2016-17.	Afforestation with in ML area is 1.59 ha on dump, 1.91 ha along safety zone, 0.8 ha in barren area Outside ML area gap plantation with in 23ha.
8g	Survival rate	NA	45%	
8h	Water sprinkling on roads to control airborne dust	Yes,proposed	Yes, Dust suppression carried out by Deploying water tankers, Sprinklers. Dry fog system.	Complied

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The greenery & aesthetic beauty of the mine is maintained. 3180 samplings planted with in the lease area with an survival rate of 45%. Dust suppression measures were found to be in place.
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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 - August-2017 A.R. Submitted up to FY 2016-17.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Ranadive. N: Mining Engineer- Dhananjaya G. Reddy: Geologist - Deepak C.A	Information furnished found correct.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining Area- 21.59ha Dumping area- 10.79 ha Mineral Stocks, Screening Plants, Infrastructure , roads-7.04 ha Afforestation and Green Belt-2.71 ha	Appears to be correct.	
9d	Scrutiny of Annual return on afforestation	WML: 3180 saplings OML: 25426 saplings planted with survival rate of 45 & 40% respectively	Appears to be correct.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generated
9f	Scrutiny of Annual return on ROM stock and/or graded ore	7,49,911 MT	Found to be correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs.1553/- Ex-mines average price of grade wise Iron Ore lumps Sold in E-auction Rs.1186/- Ex-mines average price of grade wise Iron Ore fines Sold in E-auction Cost of Production-Rs 813/-	Appears to be correct.
9h	Scrutiny of Annual return on fixed assets	Rs.73697760/-	Appears to be correct.
9k	Scrutiny of Annual return on mining machineries	Backhoe: 05 Nos. Wheel Loader :03 Nos Tipper & dumpers : 15 Nos. Water Tankers: 05 Nos Crushers : 05 Nos.	Apperaras to be correct

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**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)	16/10/2017	20/12/2017		

**Date :**

**(ARUN KUMAR)**

Indian Bureau of Mines