

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

**Review and updation of Mining Plan 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 : Shri Dhanjaya G Reddy-Mining Engineer  
Official with  
Designation
- (iv) Date of Inspection : 11/03/2020
- (v) Prev.inspection date :

**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 correspondance** : **Mr RAMAMURTHY PRAVEEN CHANDRA**  
**NO 59, 12 th MAIN, BANASHANKARI, Ist STAGE,**  
**BANGALORE-560050**
3. (a) **Lease Number** : **KAR1088**
- (b) **Lease area** : **42.6**
- (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-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 : 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	No Exploration Proposals	No Exploration has been carried out during the RY as there were no proposals	Lessee has carried out exploration during 2011-13 and has drilled 59 boreholes with 7438.40 meters
1b	Exploration over lease area for geological axis 1 or 2	G-1& G-2	Nil	Mineralized zone covering 21.59 Ha has been explored to G1 Category
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Exploration Proposals	Not applicable	In House Exploration carried out in 2011-13. Rs. 3.59 crores had been incurred.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	Entire Mineralized zone of 21.59 Ha has been explored as per the approved document. However suggested to explore the entire ML area to know the status of non mineralization
1e	Balance reserve as on 01/04/20	Nil	34 Million tons As per AR submitted for FY-2018-19	29.22 Million Tons (28.86 million proved and 0.36 million probable). Violation issued for clarification
1f	General remarks of inspecting officers on geology, exploration etc			Lessee has carried out exploration during 2011-13 and has drilled 59 boreholes with 7438.40 meters. 34 Million Tons have been reported against the actual reserves of 29.22 Million Tons. Violation issued for clarification

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	E629661-629752,N157370 9-157400 RL-959-931m E629723-629895,N157320 7-1573642 RL-921-882m	E629661-629770 N1573710-157400 RL-954.5-925.20 E629723-629895 N1573210-1573640 RL-921-881.3m	Top one bench has been excavated in the northern side of the pit which was not proposed. Violation issued.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposals of Separate benches in overburden & mineral	Maintained separate benches in Over Burden and mineral	No benches in topsoil as top soil is not proposed
2c	Stripping ratio or ore to OB ratio	1:0.080	1:0.079	No significant change
2d	Quantity of topsoil generation in m3	No proposals of generation of top-soil during the reporting year	No top soil generated	Nil
2e	Quantity of overburden generation in m3	60313 Tons	59938 Tons	TCF: Ore-2.73t/M3,Waste-1.5 t/M3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Top bench on the northern side of the pit was excavated.Violation issued for clarification

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Working carried out in a Single Pit	Approx.Pit Dimension : 800mX230mX74 meters
3b	Quantity of ROM mineral production proposed	7,50,000 tonnes	7,49,978 tonnes	Actual production with in the proposed production limits
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	Nil
3d	Quantity of mineral reject generation	No proposal	No Mineral Reject Generated	Nil

3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	No proposal	No Sub grade Generated	Nil
3g	Grade of sub grade mineral generation	No proposal	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed	Mechanised method adopted for segregating from ROM	Segregation done using 1 fixed plant of 300 TPH, 2 Mobile screening plant of 200 TPH and 300 TPH.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals	No Studies carried out	Previously during 2014, lessee has carried out studies on Siliceous Ore from IMMT, Bhubaneshwar.
3j	Provision of drilling and blasting in mineral benches	Drilling and Blasting proposed for hard starta	Drilling & blasting carried out using wagon drill	1% of the total material is blasted. Use of ripper dozer in place.
3k	Provision of mining machineries in mineral benches	Provision of mining machenaries made in mineral benches	Using Excavator & tipper combination to win the ore.	Excavators-5 no, Dumpers-10 no, Wheel Loader-4 no, Ripper and Dozer-1 no, Water Tankers-5 no., Compressor-1 no Wagon Drill-1 no
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposal of 7 meters height in Ore and Over Burden.	Bench height of 7 meters height in Ore and Overburden maintained	Nil
3m	Total area covered under excavation/pits	21.59 Ha at the end of the plan period	21.59 Ha at the end of reporting year	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.080	1:0.079	No significant change

3o	Total area put in use under different heads at the end of year	Mining-21.59 Ha Dumps-10.79 Ha Roads-0.060 Infrastructure -0.32 Ha Mineral Stock yards-6.66 Afforestation-2.71 Ha	Mining-21.59 Ha Dumps-10.79 Ha Infrastructure & roads-7.04 Ha Afforestation-2.71Ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2014-15-350000 MT 2015-16-350000 MT 2016-17-750000 MT 2017-18-750000MT 2018-19-750000 MT	2014-15-349600 MT 2015-16-349974 MT 2016-17-749911 MT 2017-18-749932 MT 2018-19-749978 MT	Actual production within the proposed production limits
3q	General remarks of inspecting officers on method of mining etc.			The mining operation was carried out as per the approved proposal with Excavator & tipper combination in one pit only.

## 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 Over Burden proposed	Separate dumping of Over burden has been carried out in earmarked area.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Proposed location of OB: E629723-629895, N1573656-1573642	Actual location of OB: E629729-629898, N1573668-1573639	Nil
4c	Number of dumps within lease area and outside of lease area	WML-one dump, OML-Nil	WML-one dump, OML-Nil	Only One OB dump inside the ML area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps proposed outside the UPL	Small portion of waste dump on northern side is under UPL, needs to be handled during conceptual plan period	Nil

4e	Number of active and alive dumps.	one active & alive dump proposed	There is only one active & alive dump within lease area.	Active Dump-AD-1 covers 5.53 ha.
4f	Number of dead dumps.	No proposal	No dead dump with in ML area	Nil
4g	Number of dumps established.	Part of the waste dump is proposed to be stabilized	Part of the waste dump is stabilized by coir matting & plantation	1.59 ha has been afforested.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain all along dumps were proposed in the past	Constructed retaining wall & garland drain all along the dump	RW constructed in the previous years
4i	Length of Retaining wall or garland drain all along dumps	No proposal in the RY year	Retaining Wall- Nil, Garland Drain- 140 meters	Retaining wall of 637 meters, Garland drain of 667 meters have been constructed at toe of dump
4j	Number of settling ponds	No proposal	Nil	One Settling pond of 45X15X3 meters constructed has been maintained
4k	Specific comments of inspecting officer on waste dump management			Waste dumping is done by forming terrces as per the approved RMP.RW & GD are constructed at the toe of the OB dump

#### 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 of back filling	Mining Pit is not matured for back filling as ore is not exhausted	Nil
5b	Area under backfilling of mined out area	No proposal	Not applicable	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	No area is considered as fully reclaimed & rehabilitated as per the approved RMP	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mining Pit is not matured for back filling as ore is not exhausted.

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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).	PMCP report to be submitted on or before 31st July of 2019	PMCP report has been submitted on 15th May 2019	Nil
6b	Area available for rehabilitation (ha) .	No proposal	Nil	Nil
6c	afforestation done (ha).	No proposal	nil	nil
6d	No. of saplings planted during the year	No proposal	Nil	Nil
6e	Cumulative no .of plants	No proposal	Nil	Nil
6f	Any other method of rehabilitation	No proposal	Nil	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil	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	Gap Plantation with 200 saplings	950 saplings planted	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.8 Ha proposed	Plantation carried out in 0.8 Ha	Gap plantation done
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Rehabilitation by Plantation	950 saplings with in ML area & 24263 No of saplings planted outside the ML area	Survival Rate: WML-65% & OML-50%
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	Environment Monitoring for AAQM, Fugitive Emissions, Surface, Ground Water Quality, Noise Monitoring proposed in Core and Buffer zone carried out through M/s Metamorphosis NABET approved and NABL accredited laboratory	Environmental parameters with in permissible limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP activities were carried out as per the proposal approved

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 Mineral Conservation:
 

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise mineral sorting proposed within lease area	Grade wise mineral sorting done within lease area	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Method of grade-wise mineral sorting proposed	Mechanical Method of grade-wise mineral sorting done with in the ML area	Nil
7c	Different grade of mineral sorted out at mines.	Fines & Lumps (Fe%):<55%,55-58 %,58-60%,60-62%,62-65%	Fines Grade Qty in tonnes 58-60 509387 60-62 24547 Lumps Grade Qty in tonnes 50-55 29424 55-58 14562 58-60 13284 60-62 12127 62-65 146647	Nil
7d	Any beneficiation process at mines .	Crushing and Screening-by Dry Process	Crushing and Screening-by Dry Process using Fixed Plant and two Mobile screening plants carried out.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Dry crushing & screening done and mineral conservation is taken care off.

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 Environment:
 

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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.	Nil
8b	Concurrent use or storage of topsoil	No Proposals	No top soil generated	Nil

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for separate dumps in OB and Ore Stacks.	Separate dump in OB and mineral stocks are maintained as per ear marked area.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	backfilling is proposed at the conceptual stage of mining	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Gap filling by afforestation on waste land done	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Prior to Mining, the lease area falls under forest with dry Deciduous type -2 forest enriched with Shrubs and Grasses.	950 saplings with in ML area & 24263 No of saplings planted outside the ML area	Cumulatively Within Lease area lessee has planted 33272 saplings which have registered 65 % survival rate.
8g	Survival rate	50%	65%	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads proposed to control airborne dust	Dust suppression is done regularly using water tankers & dry fog dust suppression system.	On Haul roads Static sprinklers have been fixed. 5 water tankers are engaged for water spraying. Mineral processing plant is covered with GI hood cover and dry fog dust suppression systems are installed. Truck mounted fog system is used to mitigate air borne dust pollutants

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around the mine is maintained by virtue of plantation & appropriate measures have been taken to control the air pollution.
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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 Feb - 2020 A.R. submitted up to FY 2018-19.	AR submitted on 28.06.20219	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Dhananjaya.G.R eddy. Geologist- Deepak.CA Manager- Ranadive.N	Same mine officials were present during the course of inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining Area- 21.59 Ha Dumping-10.79 ha Stocks, roads, Infrastructure -7.04 Ha Others- Afforestation- 2.71ha	Appears to be correct	
9d	Scrutiny of Annual return on afforestation	950 saplings with in Lease area 24263 saplings outside lease area	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No generation of mineral reject	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	RoM : Opening Stock- Nil, Production- 749978 Tons, Closing Stock- Nil.	Appears to be correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value(avg) : Rs.1908/Ton Ex Mine Price (Avg): Rs.1908/ton Cost of Production:Rs. 709.79 /ton	Appears to be correct
9h	Scrutiny of Annual return on fixed assets	Rs.116075779/- including land,plant machinery & capitalized expenditure	Appears to be correct
9k	Scrutiny of Annual return on mining machineries	Excavator-5 No's Wheel Loaders- 2 No's Dumper-10 no's Water tanker-6 No's Crusher and Screening Plant-3 No's	Appears 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)	19/06/2020			
	Rule 45(7)(i)	19/06/2020			

**Date :**

**(ARUN KUMAR)**

Indian Bureau of Mines