

**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 : **C007** ) **J. R. CHAUDHARY**  
Officer and ID No.
- (ii) Designation : Controller of Mines
- (iii) Accompanying mine : Shri Aswani Kumar, AME, IBM and D G REDDY, M E of Min  
Official with  
Designation
- (iv) Date of Inspection : 18/09/2018
- (v) Prev.inspection date : 22/06/2018

**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 : 42.6
- (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 Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	04/01/1991
		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 during the reporting year 2017-18 as the entire lease area explored upto G1/G2 level.	Hence no exploration is required to be done during the year 2017-18. Therefore, there is no backlog.	
1b	Exploration over lease area for geological axis 1 or 2	As the entire lease area is explored upto G1/G2 level, hence no exploration proposed in the reporting year 2017-18.	No exploration is required.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration agencies engaged during the year for exploration as there is no requirement.	No exploration was required to be carried out, hence no work for the purpose was undertaken.	Irrelevant information was furnished in the above item by the previous inspecting officer
1d	Balance area to be explored to bring Geological axis in 1 or 2	No balance area is left for exploration, hence no proposal against the item.	No work is required to be done as the entire lease area held has already been explored upto G1/G2 level.	The previous exploration has been reported in the earlier MCDR report by the previous inspecting officer, which is irrelevant and not related to the item under reporting.
1e	Balance reserve as on 01/04/20	The mineral reserves as per the approved Review of Mining Plan as on 1/04/2016 was 31.47 Million Tonnes of Iron ore	Consequent to depletion of production of iron ore for 2016-17 & 2017-18, the balance mineral reserves as on 01/04/2018 works out to 30.27 million tonnes.	The previous inspecting officer reported mineral reserves of iron ore of +35% Fe( below threshold) as 42.59 million tonnes, which is completely in correct and misleading.

1f	General remarks of inspecting officers on geology, exploration etc	As such there is no proposal for exploration. The proposals for production of 0.6 million tonnes/annum of iron ore from the Pit and 0.14 million tonnes/ annum given in the approved RMP in compliance to CEC order.	The production of ROM & wining of mineral from dump mining is regulated as per the proposal in the RMP.	The previous inspecting officer has not furnished the required remarks, instead reported irrelevant and favorable comments.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Durin the year 2017-18 , mining is proposed in between co-ordinates N1573745 to 1573400 & E629661 to 629720 with RL 962 to 951 mts and Dump working is proposed in between N1573163 to 1573622 and E629625 to 629810 with RL 914 to 883 mts.	It is observed that actual winning of the mineral and development is being done at the proposed site with no deviation.	The co- ordinates furnished by the previous inspecting officer is incorrect for one location.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	The proposals for the year 2017-18 is mainly in the already exposed area, hence no topsoil and overburden removal with seperate benches is involved.	During winning of the mineral at the proposed site there is small quantity of over burden & side burden generation which has been removed seperately and dumped in the earmarked location.	The previuos inspecting officer has not furnished the relevant information.

2c	Stripping ratio or ore to OB ratio	As per approved RMP the striping ratio for the year 2017-18 was 1:0.044.	It is reported as per the proposal.	The previous inspecting officer furnished incorrect information on the stripping ratio.
2d	Quantity of topsoil generation in m3	No topsoil exist in the proposed location for the year 2017-18, hence no proposal.	It is reported that no topsoil is generated during the year 2017-18	
2e	Quantity of overburden generation in m3	It is proposed in the approved RMP for the year 2017-18, the sideburden/interburden/overburden generation is 17795m3.	During the year the sideburden/interburden/overburden generation is 17795m3. No overburden is generated.	The previous inspecting officer has furnished the figures relating to the 2018-19 instead of 2017-18.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development is proposed at the location as stated above.	The mine has been developed systematically as per the approved RMP.	

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Mining from one pit and dump working from a dump is proposed for production during the 2017-18.	Mining from one pit and dump working from a dump is done for production during the 2017-18.	The previous inspecting officer has ignored the production done from dump working.
3b	Quantity of ROM mineral production proposed	The 610,000 tonnes of ROM production and 140,000 tonnes from dump mining is proposed for the year 2017-18.	In total 749932 tonnes mineral produced during the year 2017-18.	The previous inspecting officer furnished incorrect production data.

3c	Recovery of sailable/usable mineral from ROM production	It is proposed 100% recovery of ore from ROM.	It is observed that the entire ROM is salable thus proposed recovery is achieved.	The previous inspecting officer furnished incorrect data on the item in question.
3d	Quantity of mineral reject generation	No mineral reject generation hence no proposal.	There is no mineral reject generation.	
3e	Grade of mineral rejects generation and threshold value declared.	No mineral reject generation hence no proposal.	There is no mineral reject generation.	
3f	Quantity of sub grade mineral generation.	No sub grade generation hence no proposal.	There is no sub grade mineral generation.	
3g	Grade of sub grade mineral generation	No sub grade generation hence no proposal.	There is no sub grade mineral generation.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method was proposed	Mechanized segregation	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal given on beneficiation study	Nil	
3j	Provision of drilling and blasting in mineral benches	No drilling and blasting was proposed	Reeper and dozer was deployed for excavation of the mineralized zone.	
3k	Provision of mining machineries in mineral benches	Heavy earth moving machineries like Hydraulic excavator, Loader, Dumpers, Dozer, Ripper are proposed to be deployed for mining.	Heavy earth moving macineries like Hydraulic excavator, Loader, Dumpers, Dozer, Ripper are be deployed for mining.	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of benches is proposed 7m in mineralised zone.	The height of benches maintained 7 m in the mineralised zone.
3m	Total area covered under excavation/pits	About 7.5 hectares area proposed to be cover under excavation upto the year 2017-18.	About 7.5 hectares area used for excavation upto the year 2017-18.
3n	Ore to OB ratio for the pit/mine during the year.	Ore to waste ratio is proposed as 1:0.044 during the year 2017-18.	Ore to waste ratio is maintained as 1:0.044 during the year 2017-18.
3o	Total area put in use under different heads at the end of year	Total area proposed to be put in use at the end of the year is 42.13 hectares.	Total area put in use at the end of the year is 42.13 hectares.
3p	Production of ROM mineral during the last five year period as applicable	It is proposed to produce 0.75 million tonnes of iron ore including 0.14 million tonnes from dump mining during the first year of the the RMP i.e. 2017-18.	It is produced 0.75 million tonnes of iron ore including 0.14 million tonnes from dump mining during the first year of the RMP i.e. 2017-18.
3q	General remarks of inspecting officers on method of mining etc.	It is proposed to carry out the mining operations systematically by fully mechanised method of mining.	The mining operations is being carried out systematically by fully mechanised method of mining.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It is proposed to dump waste at the earmarked dump.	There is no generation of top soil & mineral rejects. The waste mainly generated from side burden and innerburden is dumped at the earmarked waste dump as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	Location of the proposed waste dump is in between coordinates N1573610 to 1573780 & E629771 to 633031.	Location of the waste dump being used is in between coordinates N1573610 to 1573780 & E629771 to 633031.	
4c	Number of dumps within lease area and outside of lease area	The proposed One waste dump which is within lease area.	This is being used for waste dumping.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The proposed waste dump falls outside the UPL.	This proposed waste dump which falls outside the UPL is being used for the dumping the waste generated during the mining operation.	
4e	Number of active and alive dumps.	One only.	One only.	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	It is proposed to stabilise the inactive portion of the active waste dump.	In compliance to the proposal about 1.5 hectares the inactive portion of the active waste dump has been stabilised.	
4h	Whether Retaining wall or garland drain all along dumps are there.	No Retaining wall or garland drain has been proposed to be constructed during the year 2017-18.	No Retaining wall or garland drain has been constructed during the year 2017-18, however the existing all engineering structure has been properly maintained.	The previous inspecting officer has not provided the required information on the item in question.
4i	Length of Retaining wall or garland drain all along dumps	No Retaining wall or garland drain has been proposed to be constructed during the year 2017-18.	So far 637m length of retaining wall and 527m length of garland drain, 50 m length of inclined drain has been constructed so far.	



4j	Number of settling ponds	No proposal for construction of settling tanks/ponds during the year 2017-18.	One settling ponds constructed earlier is being maintained. No construction of settling tanks/ponds during the year 2017-18.
4k	Specific comments of inspecting officer on waste dump management	Waste to be dumped on the existing waste dump located outside the UPL and over the non mineralised area.	Waste is being dumped on the existing waste dump located outside the UPL and over the non mineralised area.

#### 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.	The existing pit is not reached to the ultimate depth hence there is no proposal for the backfilling.	The existing pit is not reached to the ultimate depth hence there is no backfilling commenced.	
5b	Area under backfilling of mined out area	No area is proposed to be backfilled during the year 2017-18.	No area is matured for backfilling during the year 2017-18.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no top soil likely to be generated during the year 2017-18 hence no proposal require for use it.	There is no top soil likely to be generated during the year 2017-8 hence no action is required.	
5d	Total area fully reclaimed and rehabilitated	No area is proposed to be fully reclaimed and rehabilitated.	No area is matured for fully reclamation and rehabilitatation.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None.	Not applicable.	

## 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).	The annual report is to be submitted before 31 July 2018 for the year 2017-18.	The annual report is submitted before 31 July 2018 for the year 2017-18.	
6b	Area available for rehabilitation (ha) .	No area matured for rehabilitation hence no proposal.	No area matured for rehabilitation hence no rehabilitation.	
6c	afforestation done (ha).	Gap plantation proposed to be taken up.	Gap plantation on waste dump has been done.	
6d	No. of saplings planted during the year	It is proposed to plant 750 saplings over an area of 1.5 hectares during the year 2017-18.	It is planted 750 saplings over an area of 1.6 hectares during the year 2017-18.	
6e	Cumulative no .of plants	Cumulative 23550 saplings is to be planted.	So far 32716 saplings has been planted.	
6f	Any other method of rehabilitation	No such proposal.	Nothing done in this matter.	
6g	Cost incurred on watch and care during the year	60.9 lacs proposed.	76.25 lacs spent.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	None	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Ambient air quality management, surface & ground water and noise to be monitored quarterly.	Ambient air quality management, surface & ground water and noise is being be monitored by engaging M/s Metamorphosis in house which are reported within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The works to be carried out under PMCP is proposed in the approved RMP.	All the works are being carried out under PMCP as proposed in the approved RMP.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting is proposed at the minesite mechanically by dry crushing & screening.	Gradewise sorting is being done mechanically as proposed.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised crushing and screening.	Mechanised crushing and screening.
7c	Different grade of mineral sorted out at mines.	Lumps of four grades i.e. <55 to 58% Fe, 58 to 60% Fe, 60 to 62% Fe and 62 to 65% Fe. Fines also of four grades i.e.<55 to 58% Fe, 58 to 60% Fe, 60 to 62% Fe and 62 to 65% Fe.	Lumps of four grades i.e. <55 to 58% Fe, 58 to 60% Fe, 60 to 62% Fe and 62 to 65% Fe. Fines also of four grades i.e.<55 to 58% Fe, 58 to 60% Fe and 62 to 65% Fe.
7d	Any beneficiation process at mines .	Dry Mechanical Crushing & Screening is proposed.	Dry Mechanical Crushing & Screening is being practised.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The gradewise sorting of Iron ore is proposed by mechanical crushing & screening.	It is being practised as proposed.

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Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil is likely to be generated during the mining operation for the year 2017-18, hence no proposal.	No top soil is likely to be generated during the mining operation for the year 2017-18.	

8b	Concurrent use or storage of topsoil	No top soil is likely to be generated during the mining operation for the year 2017-18, hence no proposal.	No top soil is likely to be generated during the mining operation for the year 2017-18, hence storage is not required.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste is proposed.	Separate dumping of waste is being practised.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The land used for mining is not matured for restoration hence no proposal.	The land used for mining is not matured hence no restoration needed at present.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal for phased restoration, reclamation and rehabilitation of land affected by mining operations during the year 2017-18.	Gap plantation is being done for phased restoration, reclamation and rehabilitation of land affected by mining operations during the year 2017-18.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The mining lease area was under forest having plantation canopy of 30%.	The additional about 32000 saplings has been planted so far.
8g	Survival rate	Survival rate is proposed as 60%.	The actual survival reported as 55%.
8h	Water sprinkling on roads to control airborne dust	It is proposed to take adequate measures for control of airborne dust by water sprinkling on the roads.	Effective & adequate measures for control of airborne dust by water sprinkling on the roads by deploying five water tankers and static sprinklers near crushing plant.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mining area may be maintained.	Aesthetic beauty in and around mining area has been maintained by planting about 32000 saplings of native species.
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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The monthly and annual returns are submitted for the year 2017-18 online.	Timely submission of these returns online are being done.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The information on Mining Engineer, Geologist & Manager has been furnished in the Annual Return 2017-18.	No descripcencies in this regards found.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The land use pattern for area at the end of March 2018 under pit, dumps, plats/building , afforestation are 21.59,10.79,7.04 & 2.71 hectares respectively which is furnished in the Annual Return 2017-18.	No descripcencies in this item is found.	

9d	Scrutiny of Annual return on afforestation	It is furnished in the return that 1077 saplings has been planted within the lease area during 2017-18 and achieved 68% survival rate.	No discrepancy found in this item.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generation during the year is reported NIL in the AR for the year 2017-18.	No discrepancy found in this item.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The closing stock of ROM is Zero reported in the AR for the year 2017-18.	No discrepancy found in this item.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The sale value given in the return is totalled which comes to Rs.114 crores and exmine price ranges from Rs.1537 to Rs.3067per tonne for lumps and Rs.847 to Rs. 2005 per tonne. and production cost is Rs.850 per tonne.	The scrutiny of annual return reveals that the cost of production reported in Part VII of then return is Rs.850/- per tonne, whereas the same worksout to Rs. 798/- per tonne as per the details furnished in the otherparts of the return. This needs to be reconciled. The average sale price of all the grades sold during the year arrived at Rs.1532/- per tonne. Thus the profit for the year 2017-18 comes to Rs. 54 crores.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets reported in the annual return as Rs.77712450 for the year 2017-18.	On scrutiny of the fixed assets it is reported that Rs. 59784677 is own capital and nothing mentioned regarding balance source of funding.It appears that the figures furnished is not correct .

9k	Scrutiny of Annual return on mining machineries	The required details on mining machinery has been furnished in the submitted annual returns for the year 2017-18	No desrepancy observed.
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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 :**

(J. R. CHAUDHARY)

Indian Bureau of Mines