

**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 : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Shri. Deepak Geologist & Mines Manager. Ranadiv. N
Official with
Designation
- (iv) Date of Inspection : 22/06/2018
- (v) Prev.inspection date : 08/09/2017

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 : 42.6
- (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-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 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 proposals.	nil	nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	Earlier mineralized zone has been explored for G1 axis.	Yes already covered in G1 axis.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals.	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.	yes undertaken partly inhouse & outside.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals.	Mineralized zone covering 21.59 ha has been explored.	as above.
1e	Balance reserve as on 01/04/20	Given in the approved document.	30,116,351 metric tons (+45% Fe) 42,529,519 metric tones (+35% Fe)	As reported.
1f	General remarks of inspecting officers on geology, exploration etc	No proposals.	Lessee undertaken in G1 category to the satisfaction level.	yes satisfactory level.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1573745-157400 E629661-629720 RL962-951m N1573163-1573622 E629625-629810 RL 914-883m	N1573745-157400 E629661-629720 RL962-951m N1573163-1573622 E629625-629810 RL 914-883m	as per the location in the approved document.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	N1573745-157400 E629661-629720 RL962-951m N1573163-1573622 E629625-629810 RL 914-883m	N1573745-157400 E629661-629720 RL962-951m N1573163-1573622 E629625-629810 RL 914-883m	same as per the approved document.
2c	Stripping ratio or ore to OB ratio	1: 0.080	1: 0.080	Same as per the proposals.
2d	Quantity of topsoil generation in m3	No proposals.	No proposals.	Nil
2e	Quantity of overburden generation in m3	40,208 m3	40642 m3.	slight difference.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	proposed.	Satisfactory work in the developemnt.	yes satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	In one pit.	In one pit only, the work is going on.	yes during the inspection it was observed in single pit.
3b	Quantity of ROM mineral production proposed	7,50,000 tons	7,49,932 tons	Within the limit.
3c	Recovery of sailable/usable mineral from ROM production	7,50,000 tons	7,49,932tons	within the limit.
3d	Quantity of mineral reject generation	No Proposal	Not Applicable	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposals.	Not Applicable	Nil

3f	Quantity of sub grade mineral generation.	1,40,000 tons	1,40,000 tons of old subgrade iron ore from dump handling blended and sold in e-auction	Same as above.
3g	Grade of sub grade mineral generation	No proposals.	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	same as reported found inthe mine.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals.	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	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.	Ripper dozer is used for exploitation of hard strata.	No drilling & blasting. mainly using ripper dozer.

3k	Provision of mining machineries in mineral benches	Excavators- 3 No's- 1.8 Cum <1.16 Cum-2 no's Wheel Loaders- 4numbers-1.7 Cum, Ripper Dozer- D275A-450HP Dumper-25 tonner-5 numbers Tipper-10 tonnes-10 numbers.	Excavators- 3 No's- 1.8 Cum <1.16 Cum-2 no's Wheel Loaders- 4numbers- 1.7 Cum, Ripper Dozer-D275A-450HP Dumper-25 tonner-5 numbers Tipper-10 tonnes-10 numbers.	as reported, it is found in the mine.
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	yes used in the benches.
3m	Total area covered under excavation/pits	7.33 ha	7.33 ha	same.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.08	1:0.081	no difference.
3o	Total area put in use under different heads at the end of year	42.13 ha	42.13 ha	same areaa.
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 2017-18-750000MT	2012/13-350000 MT 2013/14-350000 MT 2014/15-350000 MT 2015/16-350000 MT 2016/17-750000MT	lessee maintained good rate of production as proposed.
3q	General remarks of inspecting officers on method of mining etc.	proposed for systematic operations.	Lessee carrying mining operation without the use of drilling & blasting and the work is very systematic.	Yes maintained systematically.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposals for top soil, but for OB.	Top Soil- Not applicable. OB-Dumping of waste carried out in enmarked area	Only for OB dumping in the ear marked area.
4b	Location of topsoil, OB and mineral reject dumps	N1573610-1573780 E629771-633031 RL-856-875m N1573695-1573762 E629887-629921 RL-898-912 m	N1573610-1573780 E629771-633031 RL-856-875m N1573695-1573762 E629887-629921 RL-898-912 m	In the ear marked place.
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	same no change.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Active Dump is outside UPL	Yes Active Dump is outside UPL	Yes Active Dump is outside UPL
4e	Number of active and alive dumps.	One only.	One only.	one only.
4f	Number of dead dumps.	No proposals.	No proposals.	Part of dump covering over 1.59 ha is inactive which has been afforested.
4g	Number of dumps established.	Part of dump covering over 1.59 ha is inactive which has been afforested.	900 saplings planted as gap plantation.	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 proposed.	yes provided.	yes existing below the waste dump.
4i	Length of Retaining wall or garland drain all along dumps	propsoed.	yes provided.	Retaining wall-637 meters. Garland drain-527 meters
4j	Number of settling ponds	No proposals.	Provided.	One settling pond constructed.
4k	Specific comments of inspecting officer on waste dump management	proposed	Undertaken satisfactroily.	satisfactory level.

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 proposals.	No area matured for Back filling.	Nil
5b	Area under backfilling of mined out area	No proposals.	nil	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals.	nil	nil
5d	Total area fully reclaimed and rehabilitated	No proposals.	Nil	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposals.	Nil	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).	Yes. Annual report of PMCP submitted on time.	Yes. Annual report of PMCP submitted on time.	satisfactory.
6b	Area available for rehabilitation (ha) .	No proposals.	No proposals.	Nil
6c	afforestation done (ha).	No proposals.	No proposals.	nil
6d	No. of saplings planted during the year	nO PROPOSALS.	NIL	NIL
6e	Cumulative no .of plants	NIL	NIL	NIL
6f	Any other method of rehabilitation	nO PROPOSALS.	NIL	NIL
6g	Cost incurred on watch and care during the year	No proposals.	nil	nilo

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals.	nil	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals.	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposals.	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals.	nil	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals.	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals.	nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals.	nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals.	Nil	Nil

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	satisfactory.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No proposals.	Minimum work has been undertaken by the lessee.	No comments on PMCP, since no area is matured.

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	7,13,399MT -Dispatches	satisfactory.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	Mechanised method is adopted.
7c	Different grade of mineral sorted out at mines.	Grade wise stocking proposed.	LUMPS Fresh Production (a) Below 55% 16469 (b) 55% to below 58% 21189 (c) 58% to below 60% 37214 (d) 60% to below 62% 33099 (e) 62% to below 65% 53854 (f) 65% and above 0 FINES (a) Below 55% 44727 (b) 55% to below 58% 304000 (c) 58% to below 60% 205059 (d) 60% to below 62% 31659 (e) 62% to below 65% 2662	satisfactorily sorted.
7d	Any beneficiation process at mines	Dry Crushing and Screening.	Dry Crushing and Screening.	same is followed.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	lessee PROPOSED FOR systematic work.	lessee carries out work satisfactorily	yes work is satisficatorily.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals.	nil	nil
8b	Concurrent use or storage of topsoil	No proposals.	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, overburden stacked separately	overburden stacked separately	satisfactory.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals.	Not applicable.	nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals.	nil	nil

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Afforestation with in ML area is 1.59 ha on dump, 1.91 ha along safety zone, 0.8 ha in barren area 17994 plantations survived with in ML area. Outside ML area gap plantation with in 23ha planted with 84657 saplings.	Within ML area 1076 saplings were planted out of which 731 survived & outside the ML area 27746 saplings planted out of which 13873 survived during the year 2017-18.	satisfactory extent...
8g	Survival rate	proposed.	55%- within ML 50% outside ML	More or less, the survival varying.
8h	Water sprinkling on roads to control airborne dust	55%- within ML 50% outside ML	Yes, Dust suppression carried out by Deploying water tankers, Sprinklers. Dry fog system.	satisfactory in water sprinkling.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Lessee maintains the aesthetic beauty,	yes lessee maintains well within the ML area.	Yes he maintains the aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	proposed to submit.	M.R. Submitted up to - June 2018 A.R. Submitted up to FY 2016-17.	satisfactory.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given details of mining engineer, Geologist & manager of the mine.	yes satisfactory, all the officers are working in the mine.	satisfactory.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current working=21.59 ha, waste dump=10.79 ha, plant, building etc.,=7.040 ha, afforestation = 2.71 ha.	reported is satisfactory.	yes satisfactory.
9d	Scrutiny of Annual return on afforestation	1077 nos of sapling within the Mlarea & 27746 nos in Outside the ML area. survival of 68 & 50% respectively.	yes satisfactory.	nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	main production reported is 609932t and 140000t in dump working.	Given production as per the approved quantity in the document.	yes it is satisfactory.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is Rs. 849.99/t of ore., Ex-mine price of lump & fines are as follows= - 55%Fe=Rs.1537/t, 55-58=Rs. 1705/t, 58-60=2231/t, 60-62=3067/t, 62-65Fe=2482.88/t. Fines= <55 rs. 847/t, 55-58=Rs. 1362/t, 58-60=Rs. 1587/t, 60-62=Rs. 1970/t, 62-65=Rs. 2005/t. sale value for fines is rs.850/, 58-60=Rs. 1884/t, 62-65=Rs. 1795/t Lump= 62-65=Rs. 2461/t, 58-60=Rs. 2546/-	Given price area as per the e-auctioned and are found to be correct.	satisfactory.
9h	Scrutiny of Annual return on fixed assets	The value of the fixed asset is Rs. 77712450 on mine, plant, work shop , power & installation. Depreciation on fixed assets in rs. 14264409/-	Reported price are found to be correct.	satisfactory.
9k	Scrutiny of Annual return on mining machineries	Machineries details are furnished in the return as per the approved document.	yes all the machines are used in the mines.	Rekvant machineries are under use as per the proposals.

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

Date :

(C.PARAMESHWARAN)

Indian Bureau of Mines