

**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 : **256**) **PUKHRAJ NENIVAL**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri.Dhananjaya. G.Reddy,DGM(Mines) &Sri Randhive,Min
Official with
Designation
- (iv) Date of Inspection : 05/01/2016
- (v) Prev.inspection date : 16/01/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JOHN**
- (b) **Registration NO.** : **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
- E-mail : mail@ermgroup.in
- Phone : 08194 - 230565, 080 - 260
- (f) Police Station : BARAMASAGARA
- (g) First opening date : 04/02/1977
- (h) Weekly day of rest : SUN
2. Address for : NO 59, 12 th MAIN, BANASHANKARI,
correspondance 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,Part 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	1&2	1&2	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	N.A	N.A	
1d	Balance area to be explored to bring Geological axis in 1 or 2	N.A	N.A	
1e	Balance reserve as on 01/04/20	-	-	26.06 MMT as on 01.04.2015 at threshold value of +45%.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N4771-5000 & E4950-5200	N4771-5000 & E4950-5200	Complied
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and Ore maintained.	Separate benches in OB and Ore maintained.	complied.
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.03	10,129 metric tonnes of OB removed.
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	10588 m3	5958 m3	Upto December, 2015

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
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3a	Number of pit proposed for production	1	1	complied
3b	Quantity of ROM mineral production proposed	3,50,000 metric tonnes	3,37,681 metric tonnes	Production in progress, figures are upto Dec. 15
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NA	8092	
3e	Grade of mineral rejects generation and threshold value declared.	NA	48%	Old dumps of mineral rejects vary from 49-53% Fe
3f	Quantity of sub grade mineral generation.	18,000 tonnes	10,000 tonnes (upto December, 2015)	Blended with high grade and made salable in Fe slab of 58-60%
3g	Grade of sub grade mineral generation	+45-50%	+45-50%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	R&D studies on utilization of BHQ with 30-40% Fe has been carried out at through IMMT Bhubaneswar.	
3j	Provision of drilling and blasting in mineral benches	yes	Ripper-dozer deployed for exploiting hard strata.	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	yes	

3m	Total area covered under excavation/pits	21.59 Ha	21.59 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.05	1:0.03	
3o	Total area put in use under different heads at the end of year	Mining - 21.59 Dumps - 9.20 Roads - 1.60 Infrastructure -0.32 Afforestation-4.05 Stock yard - 5.84	Mining - 21.59 Dumps - 9.20 Roads - 1.60 Infrastructure-0.32 Afforestation-4.05 Stock yard - 5.84	complied
3p	Production of ROM mineral during the last five year period as applicable	2011-12- 1.5 MMT 2012-13- 0.35MMT 2013-14- 0.35MMT 2014-15- 0.35MMT 2015-16- 0.35MMT	2011-12-0.32MMT 2012-13-0.35MMT 2013-14-0.35MMT 2014-15-0.35MMT 2015-16-0.33MMT	2015-16 production is upto December 2015.
3q	General remarks of inspecting officers on method of mining etc.	-	--	Working satisfactorily.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	No top soil generated.
4b	Location of topsoil, OB and mineral reject dumps	Nil	N4340-4445 & E5000-5030 & N4600-5000 E5300-5380	
4c	Number of dumps within lease area and outside of lease area	Dump within the lease area - 01. Dump outside the lease area- 0.	Dump within the lease area - 01. Dump outside the lease area- 0.	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are in non mineralised zone outside UPL	Dumps are in non mineralised zone outside UPL	
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	Part of the single dump covering 1.59 ha has been reclaimed.	Part of the single dump covering 1.59 ha has been reclaimed.	
4g	Number of dumps established.	Part of the dump area	Part of the dump area between N5300-5200 & E5150-5260	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	960 meters of retaining wall and garland proposed based on ICFRE recommendations.	637 meters of retaining wall and 527 meters of garland drain have been made at toe of the dump.	960 meters is for dump area for life of mine, as dumping progress same would be complied.

4j	Number of settling ponds	3	1	Advance method of dumping pattern was followed during the year to rectify the dump height as planned. Cumulative waste generated is 18,41,931 tonnes. Retaining wall of 637m has been completed, remaining will be constructed as dump advances. Three settling ponds were proposed of 15m length each, based on ground conditions and catchment a single settling pond of 45m x 15m x 205m has been made after obtaining concurrence from monitoring committee during field inspection.
4k	Specific comments of inspecting officer on waste dump management	-	-	Disposal of OB is being done satisfactorily.

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.	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	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	PMCP submitted on 30th April 2015.	complied.
6b	Area available for rehabilitation (ha) .	No proposal	No proposal	Only one mine pit, no benches available for reclamation.
6c	afforestation done (ha).	No proposal	No proposal	
6d	No. of saplings planted during the year	No proposal	No proposal	
6e	Cumulative no .of plants	No proposal	No proposal	
6f	Any other method of rehabilitation	No proposal	No proposal	
6g	Cost incurred on watch and care during the year	No proposal	No proposal	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	No proposal	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	No proposal	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	No proposal	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	No proposal	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	No proposal	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Afforestation - 0.20 ha	Afforestation-0.20 ha Afforestation on dump-0.1 ha (Gap Plantation) Method: Terracing and Plantation	A total of 0.8 ha of waste land covered with afforestation and 1.71 ha of green belt developed on safety zone from 2012-2015
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Afforestation-0.20 ha	Afforestation-0.20 ha Afforestation on dump-0.1 ha (Gap Plantation) Method: Terracing and Plantation	A total of 0.8 ha of waste land covered with afforestation and 1.71 ha of green belt developed on safety zone from 2012-2015
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Afforestation-0.20 ha	Afforestation-0.20 ha Afforestation on dump-0.1 ha (Gap Plantation) Method: Terracing and Plantation	A total of 0.8 ha of waste land covered with afforestation and 1.71 ha of green belt developed on safety zone from 2012-2015

6p	Compliance of environmental monitoring (core zone and buffer zone)	AAQ, Surface and Ground Water monitoring, noise monitoring carried out	AAQ, Surface and Ground Water monitoring and noise monitoring carried out in core and buffer zone	Complied
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Very good plantation is done and maintaining the nursery and also monitoring the environmental data on quarterly basis.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	3,50,000 tonnes of Saleable ore	About 3,37,681 MT saleable ore produced (Production in progress)	2,64,000 MT of 2015-16 production was E-auctioned as on 31.12.2015.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	complied
7c	Different grade of mineral sorted out at mines.	50-55, 55-58, 58-60, 60-62, 62-65 % Fe	50-55, 58-60, 60-62, 62-65 % Fe	complied.
7d	Any beneficiation process at mines .	Only dry crushing & screening for segregation of RoM into lumps and fines	Only dry crushing & screening for segregation of RoM into lumps and fines	complied.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Working satisfactorily.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	Lease area is devoid of Top soil.
8b	Concurrent use or storage of topsoil	NA	NA	Lease area is devoid of Topsoil.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, ore, OB & mineral rejects are stacked separately	Yes, ore, OB & mineral rejects are stacked separately	Complied.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Stacking in non-mineralised area.	Stacking in non-mineralised area.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation 500 with 65% survival rate.	Plantation 5350 saplings planted during the year.	About 26,308 saplings have been planted on dumps, safety zone and under afforestation from 2008
8g	Survival rate	65%	For FY 2015-16 80%.	
8h	Water sprinkling on roads to control airborne dust	Sprinklers, Spraying with water tankers, Enriched green belt	Dry fog dust suppression system installed at processing plants, static sprinklers on haul road, truck mounted dry fog dust suppression system, enhanced green belt, spraying with water tankers, G.I hoods for Mineral processing Plants	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Boundary pillars are intact with all details , working satisfactorily.

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 November 2015 and annual return submitted upto the year 2014-15	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	M.E - Dhananjaya G. Reddy M.M - Ranadive.N Geo- Deepak.C.A	-	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-21.59 ha. OB dump -9.20 ha. Reclaimed - 1.59 ha.	-	-
9d	Scrutiny of Annual return on afforestation	-	-	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	-	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM -Nil Lumps-20214 Fines-110601	-	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Examined price Lumps- 3600/mt Fines-2500/mt Pithead cost- 679.50/MT	-	-
9h	Scrutiny of Annual return on fixed assets	6.28Cr.	-	-

9k	Scrutiny of	Hyd.	-	-
	Annual return on	Excavator- 4		
	mining	Dozer -1		
	machineries	Front end		
		loader- 3		
		Tippers-14		
		Water tanker-5		
		C&S plants-5		
		Core drill-1		
		Compressor-1		
		Wagon drill-1		

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 :

(PUKHRAJ NENIVAL)

Indian Bureau of Mines