

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/51/BNG

Mine code : 30KAR03027

- (i) Name of the Inspecting : **256**) **PUKHRAJ NENIVAL**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri. K.V.Bhaktavatsala Naidu, Mines manager.
Official with
Designation
- (iv) Date of Inspection : 13/11/2015
- (v) Prev.inspection date : 21/01/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAMBUNATH (106 AC)**
- (b) **Registration NO.** : **IBM/202/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : NCB RANGE
Taluka : SANDUR
Post office : KARIAGANUR
Pin Code :
FAX No. : 08394-230782
E-mail : goggabrothers@rediffmail.co
Phone : 08394-320711, 231487,23161
- (f) Police Station : SANDUR
- (g) First opening date : 01/04/1959
- (h) Weekly day of rest : SUN
2. Address for : M/S.GOGGA GURUSANTHIAH & BROS
correspondance : MINE OWNERS & MINERAL GRINDERS,POST BOX NO 4,
NEHARU CO-OPERATIVE COLONY,HOSPET,BELLARY-583201
3. (a) Lease Number : KAR0174
- (b) Lease area : 42.89
- (c) Period of lease : 20
- (d) Date of Expiry : 19/10/1989
4. Mineral worked : CLAY (OTHERS) Associated
IRON ORE Main

5. Name and Address of the

Lessee : GOGGA GURUSANTHIAH & BROS
 POST BOX NO 4, NEHARU CO-OP
 COLONY, HOSPET, BELLARY
 KARNATAKA
 Phone:08394-28787,24617
 FAX :08394-25782

Owner : GOGGA GURSIDDIAIAH
 M/S G.G & Bros. P.B.NO 04,
 N.C COLONY HOSPET BELLARY
 KARNATAKA
 Phone: 9449477777
 FAX :

Agent : K. Muralidhar
 M/s G.G. & Bros, Post-Box
 No-4 Neharu Co-Operative
 Colony, Hospet Karnataka
 BELLARY KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : K.V.BAKTHA VASTHALA NAIDU,Full Time
 Qualification : B.E.MINING
 Appointment/ : 28/12/2012
 Termination date

Geologist

Name : MEKALA PEDDANNA,Full Time
 Qualification : Msc GEOLOGY
 Appointment/ : 28/12/2012
 Termination date

Manager

Name : K.V.BAKTHA VASTHALA NAIDU
 Qualification : B.E.MINING
 Appointment/ : 28/12/2012
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	03/10/1988
		Modif.of approved Mining Plan	17/03/1992
		Mining Scheme rule 12 MCDR1988	05/08/1994
		Renewal under rule 22 MCR1960	15/12/1998
		Mining Scheme rule 12 MCDR1988	05/01/2005
		Modif.approved Mining Scheme	14/02/2006
		Mining Scheme rule 12 MCDR1988	18/08/2009
		Modif.approved Mining Scheme	20/05/2013
		Mining Scheme rule 12 MCDR1988	27/02/2014
		Modif.approved Mining Scheme	08/09/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	--	--	
1b	Exploration over lease area for geological axis 1 or 2	--	--	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	--	--	Geotech Exploration Nagpur, Rs. 26.35 lakhs incurred during 2014-15
1d	Balance area to be explored to bring Geological axis in 1 or 2	--	--	--
1e	Balance reserve as on 01/04/20	--	Proved 26,34,775.000 Ts Probable Nil Possible 40,87,367.000 Ts Total 67,22,142.000 Ts	These reserves are as per the latest approved scheme of mining dated 08.09.2015 .
1f	General remarks of inspecting officers on geology, exploration etc			There was no proposals for exploration during 2015-16 . Out of 09 bore holes proposed , only 7 no's of bore holes were drilled during the year 2014-15 according to the site requirements as per the progress of the drilling & its outcome.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Cross section BB'- JJ' Direction (SW)	Cross section BB'- JJ' Direction (SW)	Towards south western side of lease area

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil Overburden Mineral 01 14 08	Top soil Mineral 01	Overburden 14 08	
2c	Stripping ratio or ore to OB ratio	1 : 1.87	1 : 3.80		Lesser development is carried out.
2d	Quantity of topsoil generation in m3	Nil	Nil		The entire area is already broken up and there is no topsoil in the area proposed for mining
2e	Quantity of overburden generation in m3	155864 m3	110860 m3		Up to Oct 2015
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc				Development is lagging in respect to proposals distorting the stripping ratio so the violation has been pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	--
3b	Quantity of ROM mineral production proposed	139991 Ts	49134 Ts	Up to Oct 2015
3c	Recovery of sailable/usable mineral from ROM production	95 %	95 %	--
3d	Quantity of mineral reject generation	Nil	Nil	There is no mineral rejects from this mine
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	

3f	Quantity of sub grade mineral generation.	Nil	Nil	Sub grade mineral varies between 45 & 58 % Fe is suitably blended with HG ore.
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized .	Mechanized .	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	
3j	Provision of drilling and blasting in mineral benches	YES	YES	
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	11.77 Ha	11.77 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 1.87	1 : 3.80	Up to Oct 2015

3o	Total area put in use under different heads at the end of year	Mining pit - 2.19 Dumping - 2.50 Stockyard - 0.28 Temporary sheds - 0.02 Water conservative measure - 1.88 Access roads - 1.50 Total - 8.37	Area under mining - 11.77 Ha Dumps - 14.52 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12 : 299743 Ts 2012-13 : Nil . . . 2013-14 : 140000 Ts 2014-15 : 140000 Ts 2015-16 : 140000 Ts	51376 Ts Nil 41843 Ts 131856 Ts 49134 Ts (upto Oct 2015)	Mining operations resumed on 13.02.2014 Up to Oct 2015
3q	General remarks of inspecting officers on method of mining etc.			The production is less to the proposal but likely to attain till March 2016.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate area is earmarked for O.B dumping.	O.B dumping is carried out at the earmarked place.	

4b	Location of topsoil, OB and mineral reject dumps	AD 1	AD 1	
4c	Number of dumps within lease area and outside of lease area	Active dump - One (WML) Inactive dumps - 5 (WML) Inactive dump (stabilized) (OML) - 1	Active dump - One (WML) Inactive dumps - 5 (WML) Inactive dump (stabilized) (OML) - 1	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	AD1 N-1683466-1684062 E- 654036-654454	AD1 N-1683466-1684062 E- 654036-654454	
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	5	5	
4g	Number of dumps established.	5	5	All 05 dead dumps are stabilized
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	--	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	--	
4j	Number of settling ponds	Not proposed	--	
4k	Specific comments of inspecting officer on waste dump management			Solid waste management is done successfully by constructing retaining Wall (1639 mtrs) & Garland drain (1789 mtrs) proposed for 9 yrs have been completed in 2014 only and Two No's of silt settling ponds (2013).

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NA	NA	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			There was no proposal for backfilling as the pit is not matured.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	NIL	NIL	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants			
6f	Any other method of rehabilitation	NA	NA	

6g	Cost incurred on watch and care during the year	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	NA	NA	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			There is no proposal for reclamation and rehabilitation, as the ore is available further depth in the existing pit.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	YES	YES	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines.	55-58 % Fe 60-62 % Fe 62-65 % Fe 65-100 % Fe	55-58 % Fe 60-62 % Fe 62-65 % Fe 65-100 % Fe	
7d	Any beneficiation process at mines .	NIL	NIL	Mechanised crushing & screening is done for sizing of ore.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral conservation aspect is given due care. Ore is sort with different grade & sizes.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No topsoil.
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	YES	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Dump restoration is proposed by Plantation .	Phase wise afforestation is done in the dumps ,along the roads, safety zone and green belt around the c.s plant.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	On dumps - 0.56 Ha, 1960 No's Road side (gap) - 0.20 Ha, 700 No's Green belt (gap) - 0.40 ha 1400 No's	On dumps - 1.00 Ha, 4683 No's Road side (gap) - 0.15 Ha, 300 No's Green belt (gap) - 0.07 ha 849 No's	During 2015-16
8g	Survival rate	70 %	70 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed.	Water sprinkling is being done by water tankers & mobile mist vehicle fitted with nozzles to eject water mist for effective suppression of airborne dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Due care is taken for the environment by plantation & water sprinkling.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted online monthly returns till Oct-2015 and annual returns for the year 2014-15.	Submitted online monthly returns till Oct-2015 and annual returns for the year 2014-15.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer - K.V.Bhaktavats ala Naidu Geologist - Mekala Peddanna		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining Pit - 11.77 Ha Waste dumps - 13.66 Ha Infrastructure - 02.45 Ha Mineral stock - 07.52 Ha Green Belt - 07.50 Ha		
9d	Scrutiny of Annual return on afforestation	(WML) 3616 No's of trees planted and survival rate is 70% . (OML) 120 No's of trees planted and survival rate is 65%		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	-	-	There is no mineral rejects
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock - 33548 Ts Dump workings (SGMD) - 251256 Ts Lumps - 19653 Ts Fines - 34068 Ts		Closing stocks at the end of the year 2014-15 .

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value Fines - 175128078/- Lumps - 155199627/- Ex.Mine price Lumps Below 55 % - 350/- 60-62 % Fe - 4100/- 62-65 % - 3937/- 65-100 % - 4287/- Fines Below 55 % - 350/- 55-58 % - 2210/- 62-65 % - 3052/- 65-100 % - 3770/- Production cost per tone - 1101.57/-	Incorrect Reserve figures & inflated Production cost are mentioned in the AR 2014-15 thus the violations are pointed out.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets 88272067/-	Value of the fixed assets at the end of the year 2014-15.

9k	Scrutiny of Annual return on mining machineries	Machinery details Excavator Nos Front end loaders No's Dumpers No's Tippers 07 No's Water tankers No's Air compressors Wagon drills No's Crusher 01 No Diesel Generator 02 No's	- 04 - 02 - 05 - - 03 - 02 - - -
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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
Rule 13(1)	15/12/2015				
Rule 21(1)	15/12/2015				
Rule 45(1)	15/12/2015				

Date :

(PUKHRAJ NENIVAL)

Indian Bureau of Mines