

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

FMCP Inspection REPORT

Bangalore regional office

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

Mine code : 30KAR03027

- (i) Name of the Inspecting : 130) PRASHANT S HEGDE
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/Shri. K.V.Bhaktavatsala Naidu -
Official with
Designation
- (iv) Date of Inspection : 13/04/2018
- (v) Prev.inspection date :

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 correspondance** : M/S.GOGGA GURUSANTHIAH & BROS
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 Vishwanath Swamy
 Managing Partner, M/s G.G.
 & Bros. P.B.No-04, N.C.
 Colony Hospet BELLARY
 KARNATAKA
 Phone: 9448360612
 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
		MP modif under 17(3) MCR 2016	31/03/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	19 nos DTH boreholes with 1008 total meterage and 20 nos of core BHs with 1464 total meterage were carried out so for.
1b	Exploration over lease area for geological axis 1 or 2	NIL	G-1: 4.57 Ha G-3: 0.11 Ha	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	G-1: 4.57 Ha G-3: 0.11 Ha	NIL
1e	Balance reserve as on 01/04/20	NIL	As per last approved modified MP dated 3/4/2017 reserves with cut off grade of +45% Fe : 2.35 million tonnes As on on 1/4/2018: 2. 21 million tonnes.	NIL
1f	General remarks of inspecting officers on geology, exploration etc	NIL	NIL	The lessee had submitted the FMCP documnet on 2/4/2018 & is under process. The exploration sought under amended rule 12(4A) of MCDR 2017.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1683413-1683772 E-653883-654235	N-1683413-1683772 E-653883-654235	Carried out as per approved proposals.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and minerals proposed	Separate benches in OB and minerals were made as per the approved proposals.	NIL

2c	Stripping ratio or ore to OB ratio	1: 4.77	1: 4.4	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	Mining within the existing pit/ broken up area.
2e	Quantity of overburden generation in m3	216,459	198,421	BD of 2.5 average.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NIL	NIL	Development are being carried out as per the approved modified MP.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	Existing pit dimension: 450m X 250m X 98m
3b	Quantity of ROM mineral production proposed	140,000 tonnes	139,897 tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	Main reef: 90% Subsidiary reef: 50%	Main reef: 90% Subsidiary reef: 80%	As reported based on actual mining.
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	+45 % Fe ore will be utilized.	+45 % Fe ore is being utilized.	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method using dry CS plant	Mechanised method using dry CS plant	NIL

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling & blasting proposed	Deep hole drilling & blasting are being carried out as per proposals.	NIL
3k	Provision of mining machineries in mineral benches	Excavator & tippers combinations	Excavator & tippers combinations	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height 6 to 7 m Width 7 to 9 m	Height 6 to 7 m Width 7 to 9 m	NIL
3m	Total area covered under excavation/pits	12.42 Ha	12.42 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 4.77	1: 4.4	NIL
3o	Total area put in use under different heads at the end of year	Mining: 12.42 Ha Waste Dumps: 16.27 Ha Area for SGMD: 1.97Ha Road: 1.5 Ha	Mining: 12.42 Ha Waste Dumps: 16.27 Ha Area for SGMD: 1.97Ha Road: 1.5 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2013-14 : 140,000 Ts 2014-15 : 140,000 Ts 2015-16 : 140,000 Ts 2016-17 : 139,950 Ts 2017-18 : 140,000 Ts	2013-14 : 41,843 Ts 2014-15 : 131,856 Ts 2015-16 : 139,545 Ts 2016-17 : 139,859Ts 2017-18 : 139,897Ts	Mining operations resumed on 13.02.2014
3q	General remarks of inspecting officers on method of mining etc.	NIL	NIL	Mining operations including production are being carried out as per approved modified MP.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed.	Carried out as the approved proposals.	NIL
4b	Location of topsoil, OB and mineral reject dumps	AD 1 (OB active dump) N-1683590-1683810 E-654308-654466	AD 1 (OB active dump) N-1683590-1683810 E-654308-654466	NIL
4c	Number of dumps within lease area and outside of lease area	1 Nos Active dump (AD1) & 6 inactive dumps within the lease area and Outside the lease area 1 nos of inactive dump EID1(stabilized)	1 Nos Active dump (AD1) & 6 inactive dumps within the lease area and Outside the lease area 1 nos of inactive dump EID1(stabilized)	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed as per approved R & R plan and modified MP.	Carried out as the approved proposals.	NIL.
4e	Number of active and alive dumps.	1 nos	1 nos	NIL
4f	Number of dead dumps.	6 nos	6 nos	Stabilized by plantation.
4g	Number of dumps established.	6 nos	6 nos	All 6 nos of dead dumps were stabilized by plantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall & garland drain proposed all along dumps	Carried out as per approved R & R plan.	NIL
4i	Length of Retaining wall or garland drain all along dumps	90 m retaining wall, 59m garland drain and 1 nos of check dam (Year 2017-18)	353 m retaining wall, 236m garland drain, 3 nos of Silt settling tanks and 2 nos of stone masonry check dams were constructed.	Retaining wall of total length 1639 mtrs garland drain of total length 1789 mtrs constructed in the year 2014 as per approved R & R plan.
4j	Number of settling ponds	3 nos	3 nos	NIL

4k	Specific comments of inspecting officer on waste dump management	NIL	NIL	Waste dump management is being carried out as per approved R & R plan and modified MP.
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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	Existing pit was not matured for back-filling at present as ore not exhausted.
5b	Area under backfilling of mined out area	NIL	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NIL	Existing pit was not matured for back-filling at present as ore not exhausted.

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).	1st July 2018	Not submitted so far.	NIL.
6b	Area available for rehabilitation (ha) .	3 Ha	3 Ha	Plantation
6c	afforestation done (ha).	3 Ha	3 Ha	

6d	No. of saplings planted during the year	6000 nos	7396 nos	On dumps.
6e	Cumulative no .of plants	NIL	79,000 nos	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	Rs 3 lakhs	More than proposed.	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	Existing pit not matured for backfilling as ore not exhausted.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	780 nos	795 nos on road side +500 nos in green belt.	NIL

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation	Afforestation	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Season-wise environmental monitoring of ambient air quality, water quality, dust fall rate, soil sample analysis and noise level.	Season-wise environmental monitoring of ambient air quality, water quality, dust fall rate, soil sample analysis and noise level are being carried out and all parameters are within limit.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NIL	NIL	PMCP implementations are being carried out as per proposals.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	140,000 tonnes production. It was proposed to carry out sorting of grade wise mineral within the lease. 58-60 % Fe 60-62 % Fe 62-65 % Fe	139,897 tonnes production. Grade wise mineral sorting is being carried out within the lease area. 58-60 % Fe 60-62 % Fe 62-65 % Fe	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical sorting by dry crushing & screen plant having capacity 150 TPH.	NIL

7c	Different grade of mineral sorted out at mines.	Different grade Lumps & fines	Grades of mineral sorted out at mines 58-60 % Fe 60-62 % Fe 62-65 % Fe	NIL
7d	Any beneficiation process at mines .	NIL	NIL	There is no beneficiation process except mechanical crushing & screening plant for sizing of ore.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NIL	NIL	Mineral consevations as per approved proposal and threshold value of minerals.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposals	NIL	Mining operation within existing pit.
8b	Concurrent use or storage of topsoil	NIL	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of OB wastes proposed.	Separate dumping is being carried out as per proposals.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposals	NIL	Pit not matured for back-filling.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Inactive dumps ID-1 to ID-5 will be stabilised with plantation	Inactive dumps ID-1 to ID-5 stabilised with plantation. Plantation in on ID-6 is in progress.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	6000 nos of saplings on dumps and 780 nos Avenue Plantation.	7396 nos of saplings on dumps, 795 nos Avenue Plantation. 500 nos in safety zone. About cum. of 80,000 nos saplings were planted within ML so far.	NIL
8g	Survival rate	NIL	65 %	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed	The regular dust suppression by water tankers/sprinkling of water is being made on road & plant areas.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NIL	NIL	The aesthetic beauty in and around mine is good as lessee had carried out huge afforestation and other environmental protective measures as per approved Modified MP.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	On-line MRs received upto March 2018 and Annual Return received upto 2016-17. AR for year 2017-18 to be submitted before 1st July 2018.	Examination of AR 2016-17 was made.	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer - Mr. K.V.Bhaktavatsala Naidu Geologist -Mr. Mekala Peddanna	Actual also same.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining: 11.92 Ha Area under dumps: 14.52 Ha Road & St.Building: 2.45 Ha	Actual also same at that time.	NIL
9d	Scrutiny of Annual return on afforestation	7758 nos saplings planted during year 2016-17.	Actual also same.	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	ROM stock: 1103 tonnes	No ROM stock (as per MR March-2018)	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price Lumps 55-58% - 1450/- 58-60% - 1705/- 60-62 - 2430/- 62-65 % - 2254/- 65-100 % - 2350/- Fines 0-55% - 500/- 58-60% - 1575/- 62-65 % - 2031/- 65-100 % - 2220/- Production cost per tone - 608.25/-	Actual appears to be same.	NIL

9h	Scrutiny of Annual return on fixed assets	11,26,94,301/- ---	Actual appears to be same.	Year 2016-17
9k	Scrutiny of Annual return on mining machineries	Machinery details Excavator Nos Front end loaders No's Dumpers No's Tippers 05 No's Water tankers No's Air compressors Wagon drills No Crusher 01 No Diesel Generator 02 No's	- 04 - 02 - 07 - - 04 - - 01 - - - 01 - - - -	Actual appears to be same. NIL

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 :

(PRASHANT S HEGDE)

Indian Bureau of Mines