

**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 : **M003**) **G C MEENA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri K.V.B.V.Naidu Sr.GM
Official with
Designation
- (iv) Date of Inspection : 09/07/2019
- (v) Prev.inspection date : 08/01/2018

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 : IRON ORE Main
CLAY (OTHERS) Associated

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
		MP modif under 17(3) MCR 2016	21/05/2018
		FMCP under 23C(1)	05/06/2018
		MP review under 17(1) MCR 2016	14/11/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Exploration over lease area for Geological axis 2 (3 No boreholes)	5 No core bore holes (581 mtrs)	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Geotech Exploration Nagpur Expenditure Rs. 2140721	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 & G2.	Balance area to be explored to bring Geological axis 1 (1.15 Ha)	G1 = 4.77 Ha. G3 = 0.11 Ha.
1e	Balance reserve as on 01/04/20	No proposal	2884331.00 tonnes of Iron ore.	
1f	General remarks of inspecting officers on geology, exploration etc		In the year 2007-08 drilled 19th DTH bore holes and total meterage is 1008 mtrs. In the year 2013 drilled 13 core bore holes and meterage 787 mtrs and in the year 2014-15, 07 core bore holes drilled and meterage 677 mtrs	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1683385-1683556 E-653952-654219 N-1683502-1683718 E-653960-654227	N-1683385-1683556 E-654009-654219 N-1683502-1683718 E-653960-654227	Development has been carried out towards North & south eastern direction area (B B'-G G',E E'-I I', = 4.15 Ha)
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperate benches in OB and in mineral proposed.	Top soil: Nil Overburden: 05 nos. Mineral: 04 nos.	Total benches worked during the year was 09 benches

2c	Stripping ratio or ore to OB ratio	1 : 2.15	1 : 1.72
2d	Quantity of topsoil generation in m3	No proposal	Nil
2e	Quantity of overburden generation in m3	343536 tonnes	276003 tonnes
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		-----

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Single pit	Pit size = L 460 X W 250 X D 99 M
3b	Quantity of ROM mineral production proposed	1,60,000 tonnes.	1,60,000 tonnes.	
3c	Recovery of sailable/usable mineral from ROM production	Main reef - 90% Subsidiary reef - 80%	Main reef - 90% Subsidiary reef - 80%	
3d	Quantity of mineral reject generation	Not Proposed	Nil	There is no mineral rejects from this mine.
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Nil	
3f	Quantity of sub grade mineral generation.	Not proposed	Nil	
3g	Grade of sub grade mineral generation	Not proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method is proposed for segregation of ROM by C.S plant.	Mechanized method is adopted for segregation of ROM by C.S plant.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	Permission for adopting deep hole drilling & blasting obtained by 106-2 (b) under MMR 1961 from DMS	Accordingly deep hole drilling & blasting is being practiced	Rock drill of 100 mm diameter. Usual practice for blasting Burden is 2.00 m & Spacing is 3.00 m.
3k	Provision of mining machineries in mineral benches	Excavator - 4 No's Drilling Machine - 2 no's Compressor - 2 no's Tippers (10 tonner) = 5 No's Tippers (16 tonner) = 07 No's Loader - 2 Nos. Crushing & screening plant - 01 no(150 TPH) Water tanker - 3 Nos Diesel tanker - 01 No Mist water Tanker - 01 No	Excavator - 4 No's Drilling Machine - 2 no's Compressor - 2 no's Tippers (10 tonner) = 5 No's Tippers (16 tonner) = 07 No's Loader - 2 Nos. Crushing & screening plant - 01 no(150 TPH) Water tanker - 3 Nos Diesel tanker - 01 No Mist water Tanker - 01 No	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, proposed in scheme of mining. (bench height - 6.0 to 7.0 M)	Yes, proposed in scheme of mining. (bench height - 6.0 to 7.0 M)	
3m	Total area covered under excavation/pits	12.72 Ha	12.72 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 2.15	1 : 1.72	

3o	Total area put in use under different heads at the end of year	Area for Mining: 12.72 Area for Waste Dumps: 16.27 Access roads: 1.5 Area for temporary sheds : 0.10 safety zone: 2.0 Mineral stockyard: 3.2 Float worked out area : 3.62	Area for Mining: 12.72 Area for Waste Dumps: 16.27 Access roads: 1.5 Area for temporary sheds : 0.10 Safety zone: 2.0 Mineral stockyard: 3.2 Float worked out area : 3.62 (in Ha.)	
3p	Production of ROM mineral during the last five year period as applicable	2012-13 : Nil Nil 2013-14 : 140000 Ts 2014-15 : 140000 Ts 2015-16 : 140000 Ts 2016-17 : 139950 Ts 2017-18 : 140000 Ts 2018-19 : 160000 Ts	41843 Ts 131856 Ts 139545 Ts 139859 Ts 139897 Ts 160000 Ts	Mining operations resumed on 13.02.2014
3q	General remarks of inspecting officers on method of mining etc.	-----		

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Earmarked area for O.B dumping proposed in the Approved scheme of mining	O.B being dumped in the earmarked area as proposed in the scheme of mining	
4b	Location of topsoil, OB and mineral reject dumps	AD 1 (OB active dump) N-1683595-1683795; E-654263-654413	AD 1 (OB active dump) N-1683595-1683795; E-654310-654413	

4c	Number of dumps within lease area and outside of lease area	1 No Active dump (AD1) & 6 inactive dumps within the lease area and Outside the lease area 1 inactive dump EID1(stabilized)	1 No Active dump (AD1) & 6 inactive dumps within the lease area and Outside the lease area 1 inactive dump EID1(stabilized)	01 dump active; 07 dumps inactive (06 dumps within lease area , 01 dump outside lease area)
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	proposed outside UPL	Located 50m outside UPL	
4e	Number of active and alive dumps.	01 active dump proposed	01 active dump	
4f	Number of dead dumps.	06 nos.	06 nos.	
4g	Number of dumps established.	06 nos.	All 06 dead dumps are stabilized by plantation and coir matting.	
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	2"thickness of RCC laid all along the top of the RR dry toe walls ID 1 - 403 mtrs ID 2 - 258 mtrs ID 5 - 60 mtrs EID 1 - 220 mtrs 01 LBCD constructed within the lease area (5*1.5*1.3) 01 LBCD constructed outside the lease area (8*1.3*1.5)	
4i	Length of Retaining wall or garland drain all along dumps	Proposed as per the approved R & R plan.	Retaining wall of total length 1720 mtrs & garland drain of total length 1789 mtrs constructed in the year 2014. 01 Toe wall (353 mtrs) constructed in 2017. 01 Garland drain (236 mtrs) constructed in 2017.	
4j	Number of settling ponds	No proposal	2 No's of silt settling ponds(SST-1 & SST-2) constructed in the year 2013. 01 Silt settling tank (SST-3) constructed in 2017.	

4k	Specific comments of inspecting officer on waste dump management	Retaining Wall & Garland drain proposed for 9 yrs have been completed in 2014 only. 01 Toe wall constructed in 2017. 01 Garland drain (236 mtrs) constructed in 2017.
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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.	No proposal	Mined out pit is not matured for backfilling	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Working pit is not matured for backfilling as mineral still persists beneath.	

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 on PMCP to be submitted within the stipulated time for FY 2018-19 within 1st July 2019	Yearly report 2018-19 submitted by the lessee.	

6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	On dumps : 2.11 Ha,	On dumps : 2.11 Ha,
6d	No. of saplings planted during the year	6220 Nos	9808 Nos
6e	Cumulative no .of plants	Not specified.	Approx. 60,000 nos. within ML area.
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	No proposal	Approx. Rs. 50,000/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil
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)Afforestation 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)	Proposed.	Carried out environmental monitoring on core zone	Quarterly report of 2018-19 is regularly submitted to IBM
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		-----	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to carry out sorting of grade wise mineral within the lease.	Grade wise mineral sorting is being carried out within the lease area. 58-60 % Fe 60-62 % Fe 62-65 % Fe	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method	Grade wise mineral sorting by mechanical method	
7c	Different grade of mineral sorted out at mines.	Proposed for all +45% Fe ROM	Grades of mineral sorted out at mines 58-60 % Fe 60-62 % Fe 62-65 % Fe	

7d	Any beneficiation process at mines .	No proposal	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		There is no beneficiation process except mechanical crushing & screening plant for sizing of ore.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	There is no topsoil to be handled. However 3927.880 tonnes of top soil is procured from outside and used for fixing of coir matting on dump slopes and for Afforestation on waste dumps.	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate earmarked area for O.B dump proposed in the approved mining plan	O.B being dumped in the separate earmarked area as proposed in the approved mining plan	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	utilized waste rock for construction of gullyplugs, LBCD's
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed for waste dumps.	Afforestation on waste dumps 14427 (AD - 9808, ID - 4619) No's, all along the roads 950 No's, Safety zone 688 No's around the mining area.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Afforestation on waste dumps 14427 nos., (AD - 9808, ID - 4619) No's, all along the roads 950 No's, Safety zone 688 No's around the mining area.
8g	Survival rate	not specified.	With in lease area - 65 % Outside lease area - 70 %
8h	Water sprinkling on roads to control airborne dust	proposed	Three water tankers of capacities 20000 ltr's, 10000 ltr's & 5000 ltr's provided for water sprinkling on roads to suppress the dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		-----

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	-----	Submitted online monthly returns up to June -2019 and Annual Returns for the year 2018-19.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer - K.V.Bhaktavatsala Naidu Geologist - Mekala Peddanna	No change	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area for Mining 12.72 Area for Waste Dumps 16.27	No change.	
		Access roads (Including 1.5 roads within the pit and dump) Area for temporary sheds 0.10 7.5 mtr Boundary safety zone 2.0 Mineral stockyard 3.2 Float worked out area 3.62		
		Untouched area / others 2.32 (In Ha.)		
9d	Scrutiny of Annual return on afforestation	Within the lease area 15915 Nos. Outside the lease area 150 Nos.	Within the lease area 15915 Nos. Outside the lease area 150 Nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	There is no mineral rejects from this mine

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock : Actual also same Nil Graded ore stocks: Lumps 62-65 % - 1112.14 Ts 65-100 % - 93.00 Ts Fines 55-58 % - 52.00 Ts 62-65 % - 8956.43 Ts 65-100 % - 66.26 Ts
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value (in Rs.) Appear to be correct. Fines - 273351498/- Lumps - 237437860/- Ex. Mine price Lumps 60-62 - 3510/- 62-65 % - 3775/- Fines 58-60% - 2029/- 62-65 % - 2753/- Production cost per tone- Rs.531.35/-

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 :

(G C MEENA)

Indian Bureau of Mines