

**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 : **A101** ) **ARUN KUMAR**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : 1. K.V.Bhaktavatsala Naidu -  
Official with  
Designation
- (iv) Date of Inspection : 08/01/2018
- (v) Prev.inspection date : 13/11/2015

**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 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	No proposal	Nil	-
1b	Exploration over lease area for geological axis 1 or 2	No proposal	G1 = 4.57 Ha. G3 = 0.11 Ha.	7 core boreholes were drilled with total of 677 Mts in the previous plan period. G3 = 0.11 Ha. ( no man's land)
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	NA	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	NA	-
1e	Balance reserve as on 01/04/20		2355371 Tons as on 01.04.2017	
1f	General remarks of inspecting officers on geology, exploration etc			07core boreholes were drilled in the year 2014-15, total meterage amounting to 677 Mts. After the exploration the area has increased from 1.61 Ha to 4.57 Ha under G1 level. There is no future proposal of exploration as per the approved document.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1683380-1683677, E-653926-654254	Location of the development were as per the proposal	In section lines CC'- JJ'
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB & mineral proposed	Separate benches in OB & mineral maintained	OB-4 benches Mineral-3 benches

2c	Stripping ratio or ore to OB ratio	1 : 1.68	1 :1.65	No Significant change
2d	Quantity of topsoil generation in m3	No proposal	NA	The entire area is broken up and there is no topsoil in the area proposed for mining.
2e	Quantity of overburden generation in m3	235122 Ts	231059 Ts	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The development of the mine is carried out as per the proposal. There were 3 ore benches and 4 OB benches with no generation of top soil.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed	Working in one pit	Approx. Pit dimension = L 450 X W 250 X D 98 M
3b	Quantity of ROM mineral production proposed	1,39,950 Ts	1,39,859 Ts	No significant change
3c	Recovery of sailable/usable mineral from ROM production	Main reef - 90% Subsidiary reef - 50%	Main reef - 90% Subsidiary reef - 50%	-
3d	Quantity of mineral reject generation	No Proposal	NA	There is no mineral rejects from this mine
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	NA	-

3f	Quantity of sub grade mineral generation.	No Proposal	NA	Sub grade mineral generation has not been considered separately, as the grade of sub grade mineral varies between 55 & 58 % Fe, which will be suitably blended with HG ore.
3g	Grade of sub grade mineral generation	No proposal	NA	-
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	NA	-
3j	Provision of drilling and blasting in mineral benches	Provision is made for drilling & blasting in mineral benches	Accordingly deep hole drilling & blasting is being practiced	Rock drill of 100 mm .diameter is used with burden of 2.00 m & Spacing of 3.00 m.
3k	Provision of mining machineries in mineral benches	Provision is made for use of mining machineries	Excavator - 4 No's,Drilling Machine - 1 no's Tippers (10 tonner) = 5 Nos,Tippers (16 tonner) = 7 nos Loader - 2 Nos.Crushing & screening plant - 01 no( 150 TPH) Water tanker - 3 Nos,Diesel tanker - 01 No,Mist Spray - 01 No	Mining M/c used as per proposal
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 - 7.5 Mts	Height of the benches are in order, but the width of the few benches are less than the bench height	Violation pointed out for lesser width
3m	Total area covered under excavation/pits	11.92 Ha	11.92 Ha	-

3n	Ore to OB ratio for the pit/mine during the year.	1 : 1.68	1 : 1.65	No significant change
3o	Total area put in use under different heads at the end of year	Area for Mining -11.92 Ha, Area for Waste Dumps - 14.52 Ha Infrastructure -2.95 Ha, Other purposes:14.01 Ha	Appeared to be correct	-
3p	Production of ROM mineral during the last five year period as applicable	2012-13 : Nil 2013-14 : 140000 Ts 2014-15 : 140000 Ts 2015-16 : 140000 Ts 2016-17 : 139950 Ts	2012-13: Nil 2013-14 : 41843 Ts 2014-15 : 131856 Ts 2015-16 : 139545 Ts 2016-17 : 139859 Ts	Mining operations resumed on 13.02.2014 & actual production within the proposed limits
3q	General remarks of inspecting officers on method of mining etc.			Exploitation of the ore is done within the proposed grids using heavy machineries and drilling & blasting .There is no mineral rejects. The mining operations resumed on 13.02.2014.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping for OB proposed	O.B is dumped in the earmarked area as proposed	-
4b	Location of topsoil, OB and mineral reject dumps	AD 1 ( OB active dump): N-1683609-1683912, E - 654241-654438	AD 1 ( OB active dump) : N-1683636-1683912 ,E- 654241-654438	-

4c	Number of dumps within lease area and outside of lease area	Dumps within Lease area-06 Dump outside the lease area-1	Dumps within Lease area-06 Dump outside the lease area-1	06 dumps inactive, 01 dump active
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps proposed outside the UPL	Location of the dump is 50 mtrs away from UPL	-
4e	Number of active and alive dumps.	01	01	-
4f	Number of dead dumps.	05	05	Stabilized by plantation
4g	Number of dumps established.	05	05	All 05 dead dumps are stabilized by plantation within the lease area
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	700*3.5*0.6 mt Retaining wall constructed	Retaining Wall & Garland drain proposed for 9 yrs have been completed in 2014 only.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	1180*2*1 M Garland drain constructed	Retaining wall of total length 1639 mtrs & garland drain of total length 1780 mtrs constructed in the year 2014.
4j	Number of settling ponds	No Proposal	NA	2 No's of silt settling ponds constructed in the year 2013
4k	Specific comments of inspecting officer on waste dump management			Waste dumping is carried out as per the proposal. Retaining wall with garland drain in place all along the toe of the waste dump was observed.

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Solid Waste Management - Backfilling:

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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.	No proposal	NA	-
5b	Area under backfilling of mined out area	No proposal	NA	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NA	-
5d	Total area fully reclaimed and rehabilitated	No proposal	NA	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			There was no proposal for backfilling in the reporting year. None of the areas of mined out pits were matured for backfilling due to occurrence of mineral at depth.

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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).	-	Annual report on PMCP submitted for the year 2016-17 on 07.07.2017	-
6b	Area available for rehabilitation (ha) .	No proposal	NA	-
6c	afforestation done (ha).	No proposal	NA	-
6d	No. of saplings planted during the year	No proposal	NA	-
6e	Cumulative no .of plants	No proposal	NA	-



6f	Any other method of rehabilitation	No proposal	NA	-
6g	Cost incurred on watch and care during the year	No proposal	NA	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	NA	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	NA	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	NA	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	NA	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	NA	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	5460 No's on dumps,700 No's on road side,1400 No's-green belt development	5610 No's on dump,700 No's on road side,1400 No's-green belt development	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	on dumps - 1.56 Ha,Road side - 0 .2 Ha,Green belt - 0.40Ha	on dumps - 1.56 Ha,Road side - 0 .2 Ha,Green belt - 0.40Ha	-

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-	-	By way of afforestation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in core zone & Buffer zone	Carried out environmental monitoring in core zone ( Mines office, Waste dump, Haul Roads& Loading point ) & Buffer zone (Vaddralli , Kariganuru, Kallahalli , Venkatagiri)	Environmental parameters within the permissible limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PMCP activities were carried out as per the approved plan and plantation done, construction of retaining wall and garland drains were in place.

#### 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.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method	Grade wise mineral sorting by mechanical method	150 TPH dry crushing & screening plant for sizing
7c	Different grade of mineral sorted out at mines.	Below 55 % Fe 55-58 % Fe 60-62 % Fe 62-65 % Fe	Grades of mineral sorted out at mines Below 55 % Fe 55-58 % Fe 60-62 % Fe 62-65 % Fe	-
7d	Any beneficiation process at mines .	No Proposal	NA	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	Grade wise sorting & sizing done within the lease area as planned using crusher and screening arrangement.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	NA	There is no topsoil to be handled. However 750 CUM of top soil was procured from outside and used for afforestation on waste dumps.
8b	Concurrent use or storage of topsoil	No Proposal	NA	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate OB dump proposed	Separate OB dump maintained	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NA	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed for Dump	Afforestation in the active dump 5610 No's, all along the roads 700 No's, Safety zone 1400 No's around the mining area.	Species: Badami, Arali, Bevu, Neerale, Hunse, Nelli, Hippe, Holematti.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Available	With in Mining Lease area-7758 saplings Outside Mining lease area -122 saplings	-
8g	Survival rate	No proposal	WML-65 % OML-60%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed to mitigate the dust generation & suppression	Three water tankers of 20000 ltr's, 10000 ltr's & 5000 ltr's provided for water sprinkling on roads to suppress the dust.	In addition to WT's, 12000 liter's capacity of mobile mist vehicle fitted with nozzles to eject water mist is used for effective suppression of airborne dust
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantations have been done in the lease area. Three water tankers & one mist spraying vehicle deployed for suppression of dust. Greenery is maintained in & around the lease area.

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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 Dec -2017 and annual returns for the year 2016-17.	Annual Returns submitted on 12.07.2017
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & Mining Engineer - K.V.Bhaktavatsala Naidu Geologist - Mekala Peddanna	Mining Engineer & Geologist appointed as per the given in AR	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining - 11.92 Ha, waste dumps - 14.52 Ha c.s plant, welfare building & roads -02.45 Ha safety zone, mineral stockyard & SGMD float worked out area and untouched area - 14.01 Ha	Appeared to be correct
9d	Scrutiny of Annual return on afforestation	Within the lease area 7758 No's of trees planted and survival rate of 65% and Outside the lease area 122 No's of trees planted and survival rate is 60%	Appeared to be correct
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	There is no mineral rejects from this mine
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Opening Stock - Production- 139859 Tons Closing Stock- 1103 Ts Dump workings (SGMD) - 251256 Ts	Appeared to be correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value- Rs.2011/Ton Ex. Mine price- Rs.1809/Ton Production cost-Rs 608.25/ton	Appeared to be correct

9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets 112694301 /-	Appeared to be correct
9k	Scrutiny of Annual return on mining machineries	Machinery details Excavator - 04  Nos Front end loaders - 02 No's Dumpers - 07  No's Tippers -  05 No's Water tankers - 04  No's Air compressors - 01 No Wagon drills - 01  No Crusher -  01 No Diesel Generator - 02 No's	Appeared to be correct

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**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
MCDR17	Rule 11(1)	05/02/2018			
MCDR17	Rule 31(1)	05/02/2018			

**Date :**

**(ARUN KUMAR)**

Indian Bureau of Mines