

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

FMCP Inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/340/BNG

Mine code : 30KAR03038

- (i) Name of the Inspecting : **278**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri Seshagiri Samji mines manager
Official with
Designation
- (iv) Date of Inspection : 21/06/2019
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KWATEGUDDA 156AC**
- (b) **Registration NO.** : **IBM/202/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State** : **KARNATAKA**
- District** : **BELLARY**
- Village** : **KWATEGUDDA**
- Taluka** : **SANDUR**
- Post office** : **HOSPET**
- Pin Code** :
- FAX No.** : **08394-230782 (F),**
- E-mail** : **goggabrothers@rediffmail.co**
- Phone** : **08394-231487 (O), 94481909**
- (f) **Police Station** : **HOSPET**
- (g) **First opening date** : **27/05/1971**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **P.B.NO 4, NEHRU CO-OPERATIVE COLONY,**
HOSPET,
BELLARY-583203.
3. (a) **Lease Number** : **KAR0173**
- (b) **Lease area** : **15.1**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **26/05/2021**
4. **Mineral worked** : **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 GURUSANTHIAH & BROS
 POST BOX NO 4, NEHARU CO-OP
 COLONY, HOSPET, BELLARY
 KARNATAKA
 Phone: 28787,24617
 FAX : 08394-25782

Mining Engineer

Name : A M RUDRAIAH, Full Time
 Qualification : B E MINING
 Appointment/ : 25/09/2014
 Termination date

Manager

Name : S.SESHAGIRI
 Qualification : D.MIN.ENG, F.C.C
 Appointment/ : 04/07/2013
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	08/03/1993
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	13/05/1999
	:	Renewal under rule 24 MCR1960	14/02/2006
	:	Mining Scheme rule 12 MCDR1988	29/03/2016
	:	MP modif under 17(3) MCR 2016	16/05/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	4 DTH holes drilled by the lessee during April 2019	
1b	Exploration over lease area for geological axis 1 or 2	G1 & G2	G1 & G2	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	By lessee, expenditure Rs. 40,000/- for 4 DTH holes.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	No additional exploration proposed.	
1e	Balance reserve as on 01/04/20	No proposal	257,285 tonnes	As on 01.04.2019
1f	General remarks of inspecting officers on geology, exploration etc			So far, lessee has carried out 17 nos. of core boreholes (total meterage of 682.6m) and 8 nos. of DTH holes (total meterage of 164m) within the ML area.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N1681000 to N1681150, E660250 to E660500	No change in development location.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed for OB and mineral.	In OB 4 benches and in ore 3 benches.	
2c	Stripping ratio or ore to OB ratio	1:2.62	1:2.69	
2d	Quantity of topsoil generation in m3	No proposal	NIL	Development area is devoid of any top soil.

2e	Quantity of overburden generation in m3	42996 m3	44086m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No deviation in respect of mine development was observed during the course of inspection.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit working.	Single pit, Pit 1 and Pit 2 merged.	Dimension of existing pits: Merged Pit-1 and Pit-2 measuring: 250m x 130m x 50m & Pit-3 measuring: 60m x 15m x 8m.
3b	Quantity of ROM mineral production proposed	36,000 tonnes	36,000 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	100% salable	100% salable	Entire ROM is salable.
3d	Quantity of mineral reject generation	No proposal	No mineral reject generation.	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not Applicable	
3f	Quantity of sub grade mineral generation.	No proposal	Not Applicable	
3g	Grade of sub grade mineral generation	No proposal	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	

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	Proposed use of high explosives such as 105mm dia. with 83mm slurry explosive booster in conjugation with ANFO.	No change w.r.t. the proposals.	
3k	Provision of mining machineries in mineral benches	Proposed	Back hoe: 1 no. Tippers: 6 nos. Front end loaders: 1 no. Air Compressor: 1no. Rock Drill: 1 no. Water Tanker: 1 no.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7m of bench height proposed.	6 to 7m of bench height maintained.	
3m	Total area covered under excavation/pits	3.34 Ha.	3.34 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:2.62	1:2.69	
3o	Total area put in use under different heads at the end of year	8.13 Ha.	7.06 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 2015-16: 36,000 2016-17: 36,000 2017-18: 36,000 2018-19: 36,000 (in tonnes)	2014-15: Nil 2015-16:12,908 2016-17: 35,950 2017-18: 36,000 2018-19: 36,000 (in tonnes)	No production reported from 2011-12 to 2014-15

3q	General remarks of inspecting officers on method of mining etc.	No deviation in respect of mineral exploitation was observed during the course of inspection.
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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 of OB proposed	OB separate dumping.	
4b	Location of topsoil, OB and mineral reject dumps	N 1681040 to 1681160, E 660300 to 660400	No change	
4c	Number of dumps within lease area and outside of lease area	2 dumps within ML area	2 dumps within ML area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside UPL	Located outside UPL	
4e	Number of active and alive dumps.	1 active dump	1 active dump	
4f	Number of dead dumps.	1 inactive dump	1 inactive dump	
4g	Number of dumps established.	1 NO	1 NO	Inactive dump was stabilized
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Retaining wall along the active and inactive dump constructed.	
4i	Length of Retaining wall or garland drain all along dumps	410m of retaining wall and 430m garland drain within 6 years period (from 2014 to 2020).	So far, 436m of retaining wall and 230m of garland drain constructed.	Proposed as a part of Reclamation and Rehabilitation programme.
4j	Number of settling ponds	35 nos. of brush wood check dams within 6 years period (from 2014 to 2020).	So far, 6 nos. has been constructed.	Proposed as a part of Reclamation and Rehabilitation programme.

4k	Specific comments of inspecting officer on waste dump management	Violation of rule 11(1) of MCDR issued to the lessee dated 15.07.2019 for non construction garland drain and check dams as per the approved R & R proposal. Total area covered by was dump was 1.84 Ha.
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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 such proposals as mined out pits were not matured for back-filling	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)	Mining area devoid of any top soil	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mined out pit is not matured for back-filling and water reservoir.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	Annual report submitted
6b	Area available for rehabilitation (ha) .	No proposal	NIL
6c	afforestation done (ha).	0.12 Ha.	0.15 Ha.
6d	No. of saplings planted during the year	500 nos. proposed	1190 nos. within ML area along the safety zone and dump slopes.
6e	Cumulative no .of plants	Not specified.	Approx. 10,000 nos.
6f	Any other method of rehabilitation	No proposal.	NIL
6g	Cost incurred on watch and care during the year	Rs. 56,500/-	Rs. 60,000/-
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)	Season-wise Environmental monitoring	Season-wise Environmental monitoring were carried out and parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mined out pit is not matured for back-filling and water reservoir. About cumulative of 10,000 nos. of saplings were planted 1.2 Ha area of the mine.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM proposed to be crushed and dry Screening	ROM Mineral dispatched after dry screening.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized
7c	Different grade of mineral sorted out at mines.	Proposed for all +45% Fe ROM	Yes. Grade wise sorting carried out as per buyer's requirement.
7d	Any beneficiation process at mines .	No proposal except crushing and dry screening.	Crushing and dry screening.
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.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Mining area devoid of any top soil	
8b	Concurrent use or storage of topsoil	No proposal	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste proposed with the active dump.	No change.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Not applicable as mineral not exhausted at pit bottom.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Mined out pits were not matured for restoration.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed in safety Zone & dumps slopes gap filling areas.	Plantation was done in safety Zone & dumps slopes gap filling area & maintained regularly.	
8g	Survival rate	80%	70%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water tankers were arranged for water sprinkling on roads for control the dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around mine was good as lessee had carried out 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	M.R. Submitted up to June, 2019 A.R. Submitted up to 2018-2019		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri A M Rudraiah. Mines Manager: Shri S Seshagiri	Mining Engineer: Shri A M Rudraiah. Geologist: Shri Mekala Pddanna Mines Manager: Shri S Seshagiri	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit/Mining: 3.34 Ha; Dumps: 1.84 Ha Infrastructure /plant/buildings: 0.44 Ha	Actual also same at that time
9d	Scrutiny of Annual return on afforestation	1190nos. within ML area	1190 nos. saplings planted within ML area along the safety zone and dump slopes.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	No mineral reject generation during 2018-19
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock: Nil Graded ore all Lumps: 5677 tonnes Graded ore all Fines: 4000 tonnes	Appears to be correct
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. mine price/ tones: Lumps: Below 55% Fe: Rs. 1616.50 58-60% Fe: Rs. 2711.44 Fines: Below 55% Fe: Rs. 952.25 55-58% Fe: Rs. 1460.08 Cost of Production: Rs. Rs. 648.74/ tonne	Appears to be correct. Sold through e-auction only.
9h	Scrutiny of Annual return on fixed assets	Rs. 13227,279/-	Appeared to be correct.

9k Scrutiny of Annual return on mining machineries Back hoe: 1 no. Tippers: 6 nos. Front end loaders: 1 no. Air Compressor: 1no. Rock Drill: 1 no. Water Tanker: 1 no. No change.

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
MCDR17	Rule 11(1)	15/07/2019			
MCDR17	Rule 35(2)	15/07/2019			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines