

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

**Inspection under SDF for star rating of mines REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/Fe-413/A/BNG

**Mine code :** 30KAR03133

- (i) Name of the Inspecting : **278** ) **KRISHNENDU CHATTERJEE**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : S/Shri Allum Prashant, Mine Owner and Vinodh S Jadha  
Official with  
Designation
- (iv) Date of Inspection : 23/11/2018
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **HARGINADONA**
- (b) **Registration NO.** : **IBM/4514/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BELLARY**
- Village : **HARGINADONA**
- Taluka : **BELLARY**
- Post office : **BELLARY**
- Pin Code :
- FAX No. : **08392-267666**
- E-mail : **apmines@yahoo.co.in**
- Phone : **08392-267666, 9448113500**
- (f) **Police Station** : **Ballari Rural**
- (g) **First opening date** : **21/07/2000**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **Mr Allum Prashant, 11th ward,  
GADIGI PALACE, CAR STREET  
BELLARY-583101**
3. (a) **Lease Number** : **KAR1515**
- (b) **Lease area** : **69.6**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **20/07/2020**
4. **Mineral worked** : **IRON ORE** **Main**

## 5. Name and Address of the

Lessee : ALLUM PRASHANT  
GADIGI PALACE, CAR STREET,  
BELLARY, BELLARY KARNATAKA  
Phone:08392-274282/ 267666  
FAX :08392-277845 /267666

Owner : ALLUM PRASHANT  
GADIGI PALACE, CAR STREET,  
BELLARY, BELLARY KARNATAKA  
Phone: 08392-274282  
FAX : 08392-267666

Agent : BASAVARAJ  
Gadifi Palace, Car Street  
Ballari BELLARY KARNATAKA  
Phone: 9448441458  
FAX :

## Mining Engineer

Name : VINOD S JADHAV, Full Time  
Qualification : BE (MINING)  
Appointment/ : 01/10/2017  
Termination date

## Manager

Name : VINODH S JADHAV  
Qualification : BE MINING  
Appointment/ : 01/10/2017  
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 09/07/2018

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5 nos. of RC Boreholes	6 nos. of RC boreholes were drilled with total meterage of 307m.	
1b	Exploration over lease area for geological axis 1 or 2	G1 & G2	G2 & G3.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal	Rock Tech Enterprises, Expenditure was Rs. 12 Lakhs.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 & G2	G1 & G3.	
1e	Balance reserve as on 01/04/20	No proposal	2.03 million tonnes of iron ore.	
1f	General remarks of inspecting officers on geology, exploration etc		6 nos. of RC boreholes were drilled (AAB21 to AAB26) by the lessee during 2017-18.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	A Block, N 1674400 to N 1674600, E 689400 to E 689500	A Block, N 1674400 to N 1674600, E 689400 to E 689500	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and mineral proposed	Separate benches in OB and mineral maintained; in OB 4 nos. and in ore 2 nos. benches.	
2c	Stripping ratio or ore to OB ratio	1: 0.74	1: 1.35	
2d	Quantity of topsoil generation in m3	No proposal	Nil	No top soil within the broken up mining area.
2e	Quantity of overburden generation in m3	OB: 3801 m3, MMIO: 9450 m3	OB: 31000 m3, MMIO: 11428 m3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	In order to regularize the width and height of the benches, excess development was carried out during 2017-18.
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed in block A.	Single pit in block A with dimension of 300m (L) x 80m (W) x 40m (D)	
3b	Quantity of ROM mineral production proposed	46000 tonnes during 2017-18.	45800 tonnes.	
3c	Recovery of sailable/usable mineral from ROM production	90% recovery proposed	90% recovery.	
3d	Quantity of mineral reject generation	No Proposal	32000 tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	40 to 42% Fe.	Mineral reject was stacked seperately.
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Fully mechanized method proposed	Fully mechanized method adopted.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal during 2017-18	Nil	Previously a study was conducted in RODL-IBM, Bangalore to study the scope for up gradation of siliceous ore from 38-40% Fe (ROM) to 67% Fe.
3j	Provision of drilling and blasting in mineral benches	Proposed	Deep hole drilling and blasting was carried out.	

3k	Provision of mining machineries in mineral benches	Proposed with 1 no. of excavator, 4 nos. of trucks, 1 wheel loader and 1 drilling unit.	Provided as per the proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 8m of bench height and 10m of width	6-8m of bench height and 8-10m of width maintained.
3m	Total area covered under excavation/pits	Proposed 2.4 Ha.	No change.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.74	1: 1.35
3o	Total area put in use under different heads at the end of year	12.3 Ha. proposed	13.7 Ha.
3p	Production of ROM mineral during the last five year period as applicable	2013-14: No proposal 2014-15: 45846 2015-16: 45846 2016-17: 45927 2017-18: 45927 (in tonnes)	2013-14: Nil 2014-15: 43600 2015-16: Nil 2016-17: 30000 2017-18: 45800 (in tonnes)
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 dated 23/11/2018

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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)	Seperate dumping proposed for OB and MMIO	Seperate dumping for OB and MMIO	
4b	Location of topsoil, OB and mineral reject dumps	OB dumping: N 1674500 to N 1674600, E 689500 MMIO Dumping: N 1674700, E 689400	OB dumping: N 1674500 to N 1674600, E 689500 MMIO Dumping: N 1674700, E 689400	No change in location.

4c	Number of dumps within lease area and outside of lease area	2 dumps within ML	2 dumps within ML
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL
4e	Number of active and alive dumps.	One active dump proposed	One active dumping area.
4f	Number of dead dumps.	One inactive dump	One inactive dump
4g	Number of dumps established.	No proposal	Inactive dump was stabilized by plantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed as per the approved R&R Plan.	Retaining wall and garland drain were constructed as per the approved R&R Plan.
4i	Length of Retaining wall or garland drain all along dumps	No proposal during 2017-18	540m of retaining wall and 550m of garland drain were constructed so far.
4j	Number of settling ponds	1 no. settling pond proposed	1 no. settling pond constructed.
4k	Specific comments of inspecting officer on waste dump management		During the course of inspection it was found that active waste dump and MMIO dump was not suitably terraced and stabilized, violation of rule 11(1) was issued to the lessee dated 06.12.2018.

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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 backfilling proposal	Nil	
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 such proposal	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 was not matured for back-filling and water reservoir.

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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).	The Annual Report on PMCP to be submitted within the stipulated time for FY 2017-18 within 1st July 2018	Annual Report on PMCP submitted on 24.07.2018	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.23 Ha.	0.23 Ha.	
6d	No. of saplings planted during the year	550 nos.	600 nos.	
6e	Cumulative no .of plants	No proposal	4000 nos.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Rs. 2.4 lakhs	
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 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 4000 nos of saplings were planted 0.5 Ha area of the mine
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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed within the ML area.	Grade wise sorting within the ML area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised Crushing	Hand sorting followed by mechanised crushing	
7c	Different grade of mineral sorted out at mines.	Proposed for all +45% Fe.	+45 to 55% Fe.	
7d	Any beneficiation process at mines	No such proposals	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		No deviation in respect of mineral conservation was observed during the course of inspection. MMIO with quality 40-42% Fe was dumped separately by the lessee within the ML area for potential future use.	

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No generation of top soil within broken up mining area.	
8b	Concurrent use or storage of topsoil	No proposal	Nil	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Carried out as per the approved mining plan proposals.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable as ore not exhausted
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil as mined out pit was not matured for back-filling and water reservoir.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Entire ML area is non-forest. There was proposal of plantation of 550 nos of saplings in 0.2 Ha area within ML during year 2017-18	So far 4000 nos. of saplings were planted within the ML area over an extent of 4.9 Ha. along the inactive dump and in safety zone area.
8g	Survival rate	60% proposed	40 to 50% due to poor soil fertility
8h	Water sprinkling on roads to control airborne dust	Proposed.	Regular dust suppression by sprinkling of water is being made in the mine.
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 mining plan.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns		M.R. Submitted up to Nov. 2018 A.R. submitted upto FY 2017-18	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Manager: Shri Vinodh S Mining Geologist: Shri Jagan Mohan Reddy.	Mining Engineer and Manager: Shri Vinodh S Mining Geologist: Shri Jagan Mohan Reddy.	No change.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit/Mining: 1.81 Ha; Dumps: 3.7 Ha Infrastructure /plant/buildings: 1.8 Ha Reclaimed area: 0.2 Ha. Plantation: 4.9 Ha.	Pit/Mining: 2.4 Ha; Dumps: 3.7 Ha Infrastructure/plant/buildings: 1.8 Ha Reclaimed area: 0.2 Ha. Green belt: 4.9 ha.	
9d	Scrutiny of Annual return on afforestation	600 nos.	Actual also same	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	32000 tonnes with 40% Fe.	Dumped seperately as MMIO at Block A.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: 1941 tonnes Below 55% Fe stock: 32,431 tonnes.	Graded ore stacked seperately at south of the mine pit, in Block A.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. mine price below 55% lumps/ fines: Rs. 800/tonne Production cost: Rs. 697/tonne	Appeared to be correct	
9h	Scrutiny of Annual return on fixed assets	Rs. 7800000/-	Fixed assets include mining machineries including crusher and temporary office building.	

9k      Scrutiny of      Back hoe: 1      Actual also same.  
Annual return on      no. (0.9  
mining      cu.m.)  
machineries      Truck: 4 nos.  
                            (20 tonnes)  
                            Rock drill: 1  
                            no. (100mm)  
                            Generator:  
                            1no. (50KWH)  
                            Water tanker:  
                            1 no.

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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
MCDR17	Rule 11(1)	06/12/2018	26/04/2019				
MCDR17	Rule 35(2)	06/12/2018	26/04/2019				
MCDR17	Rule 11(1)	06/12/2018					
MCDR17	Rule 35(2)	06/12/2018					

**Date :**

**(KRISHNENDU CHATTERJEE)**

Indian Bureau of Mines