

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

**MCDR inspection REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/413/BNG

**Mine code :** 30KAR03123

- (i) Name of the Inspecting : **257** ) **Prashant S Hegde**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri Vinodh S Jadhav Mine Manager  
Official with  
Designation
- (iv) Date of Inspection : 05/02/2020
- (v) Prev.inspection date : 11/01/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SANJEEVARAYANA KOTE**
- (b) **Registration NO.** : **IBM/4514/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :  
State : KARNATAKA  
District : BELLARY  
Village : SANJEEVARAYANA KOTE  
Taluka : BELLARY  
Post office : BELLARY  
Pin Code :  
FAX No. : 08392-277845 /08392267666,  
E-mail : apmines@yahoo.co.in  
Phone : 08392-267666/274282,083922
- (f) Police Station : BELLARY RURAL
- (g) First opening date : 01/09/2001
- (h) Weekly day of rest : SUN
2. Address for : 11th ward, GADIGI PALACE,  
correspondance : CAR STREET,  
BELLARY, KARNATAKA-583 101.
3. (a) Lease Number : KAR1200
- (b) Lease area : 42.89
- (c) Period of lease : 20
- (d) Date of Expiry : 01/12/2020
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  
 Gadigi Palace Car street  
 Ballari BELLARY KARNATAKA  
 Phone: 08392-267666  
 FAX : 08392-267666

Manager  
 Name : MD Irfan Zaheer  
 Qualification : Dip. in Mining  
 Appointment/ : 01/03/2019  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27/01/1998
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	31/03/2006
		Mining Scheme rule 12 MCDR1988	14/06/2013
		Mining Scheme rule 12 MCDR1988	18/04/2016

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	NIL	G-1: 9.26 Ha covered out of Total mineralised area: 17.07 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	7.81 Ha	NIL	V/L issued on 28/2/20 for deviation in exploration for year 19-20 so far ( Proposals of 3 BHs with 150 total meterage ) .
1e	Balance reserve as on 01/04/20	-----	BMQ(Banded Magnetite Quartzite) : 4,696,341 tonnes as on 1/4/2019 (Cut of grade of +35 % Fe and 37.6 % Fe average grade)	Based on last approved SOM dated 18/4/2016.
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	Proposals of 3 BHs with 150 total meterage for year 2019-20 in the approved SOM and exploration progragmme has not been initiated so far. Accordingly, V/L issued on 28/2/20 for deviation in exploration.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Central part of the pit (N-1664202.28 to 1664324.52 and E-706958.10 to 707323.56)	Eastern part of the pit ( N-1664200 to 1664350 and E-707300 to 707550)	V/L issued for site deviation on 28/2/20.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for OB and Mineral (OB: 1 nos and BMQ: 2 nos)	Carried out as per proposals.	NIL
2c	Stripping ratio or ore to OB ratio	1:0.07	1:0.75	Tonnage data and less production.
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	3306	1500	Low production during the year.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	Site deviation observed during inspection and V/L issued on 28/2/20. Corner BPs were well maintained at the time of inspection.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	NIL
3b	Quantity of ROM mineral production proposed	89,254 tonnes	4000 tonnes	Less demand in market.
3c	Recovery of sailable/usable mineral from ROM production	90 %	90 %	NIL
3d	Quantity of mineral reject generation	NIL	NIL	About 10 % fines (< 6 mmm size) generation at crusher plant is being stocked separately.
3e	Grade of mineral rejects generation and threshold value declared.	NA	NIL	Entire Production is being utilized.
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL

3g	Grade of sub grade mineral generation	NA	NIL	No sub-grade ore generation.
3h	Manual / Mechanised method adopted for segregating from ROM	Both Manual and mechanically using Jaw Crusher for hard lumps (50 to 80 mm)	Carried out as per proposals.	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals.	NIL	Earlier, the beneficiation study was carried out by IBM, Bangalore for up gradation of material from 38-40 % Fe to 67 % Fe.
3j	Provision of drilling and blasting in mineral benches	Jack-hammer drilling of 2 m depth in mineral sub-benches.	Carried out as per the proposals.	NIL
3k	Provision of mining machineries in mineral benches	Yes. Excavator and tippers.	Excavator and tippers.	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of 6 m and width of 8 m.	Carried out as per proposals.	NIL
3m	Total area covered under excavation/pits	3.4 Ha	3.2 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.07	1: 0.75	Tonnage data.
3o	Total area put in use under different heads at the end of year	Pit: 3.4 Ha Dumps: 3.91 Ha Infra. and Road: 2.59 Ha	Pit: 3.2 Ha Dumps: 3.4 Ha Infra. and Road: 2.59 Ha	NIL

3p	Production of ROM mineral during the last five year period as applicable	2014-15: 90,000 2015-16: 90,000 2016-17: 61,371 2017-18: 89,465 2018-19: 89,254 2019-20: 89,284	2014-15: 10,800 2015-16: 19,000 2016-17: 27,000 2017-18: 24,100 2018-19: 4,000 2019-20: 21,000 (Up to Dec-2019)	Unit in tonnes.
3q	General remarks of inspecting officers on method of mining etc.	----- -	-----	Mining Operation is being carried out in small scale as per market demand. V/L issued for site deviation.

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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 surface dumping of OB and No top soil generation.	Carried out as per proposals.	NIL
4b	Location of topsoil, OB and mineral reject dumps	Waste dumping at Northern side of ML ( N-1664342.81 to 1664415.31 and E-707137.26 to 707276.72 )	Carried out as per proposals.	NIL
4c	Number of dumps within lease area and outside of lease area	Within ML: 2 nos and Outside ML: Nil	Within ML: 2 nos and Outside ML: Nil	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	NIL
4e	Number of active and alive dumps.	One	One	NIL
4f	Number of dead dumps.	One	One	NIL
4g	Number of dumps established.	One	One	NIL

4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed.	Retaining wall (Cum. 590 m ) and Garland drain ( cum. 610 m) constructed as per R & R plan.	NIL
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	During year 2018-19.
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	-----	-----	Waste dump management is being carried out as per approved SOM.

#### 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	Pit is not matured for backfilling 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.	-----	-----	Pit is not matured for backfilling as ore not exhausted so far.

#### 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).	1st July 2019	Not submitted so far.	V/L issued on 28/2/20.
6b	Area available for rehabilitation (ha) .	NIL	NIL	Pit is not matured and dump is also active.
6c	afforestation done (ha).	NIL	NIL	NIL
6d	No. of saplings planted during the year	NIL	NIL	NIL
6e	Cumulative no .of plants	NIL	2,000 nos so far.	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	NA	NA	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	NIL	Pit is 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 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	2,375 nos of saplings.	2,500 nos of saplings.	Safety zone and southern slopes.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.95 Ha	0.95 Ha	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 proposed.	Season-wise environmental monitoring carried out and all parameters are within the limit.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----- -	-----	PMCP implementation is being carried out as per the proposals.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting with in ML	Grade-wise sorting with in ML	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Both manual and mechanical	Both manual and mechanical using Jaw Cursher for hard lumps	NIL
7c	Different grade of mineral sorted out at mines.	Grade wise mineral sorting	Lumps of below 55 % Fe BMQ ore	NIL

7d	Any beneficiation process at mines .	None except dry crushing and screening.	Carried out as per the proposals.	About 10 % of crushed fines (<6 mm size ) is being generated and stocked near plant.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	No mineral conservation issue as small scale operation and less demand for low grade ore at present.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No top soil generation.
8b	Concurrent use or storage of topsoil	NIL	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate surface dumping of OB wastes proposed at northern part.	Carried out as per the proposals.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	Pit is not matured for backfilling as ore not exhausted. Dump is active.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	NIL

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2,375 nos of saplings proposed during year.	2,500 nos of saplings carried out (2000 nos within ML + 500 nos outside ML).	ML falls under non-forest. Reported to be about 14,000 nos sapling planted so far.
8g	Survival rate	60 %	40 %	Rocky terrain and scanty rainfall
8h	Water sprinkling on roads to control airborne dust	Proposed.	One water tanker provided for this purpose.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	Aesthetic beauty in and around mines area observed to be good as the lessee implementing R & R plan as well as approved SOM.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MRs (upto Dec-2019) and AR (2018-19) are received.	Submission of MRs and ARs are regular.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manger : Mr. GOVINDAPPA ME: Mr. VINODH S Geologist: Mr. R.JAGAN MOHAN REDDY	Mines Manger : Mr. MD Irfan Zaheer ME: None Geologist: None	Violation pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 3.2 Ha Dumps: 3.4 Ha Infra. and Road: 2.59 Ha	Actual also same.	NIL.
9d	Scrutiny of Annual return on afforestation	Within ML: 2000 nos Outside ML: 500 nos	Actual also same.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	500 tonnes	Actual also same.	Fines (<6 mm size of grade 32 % Fe ) generated during crushing.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	10,721 tonnes of below 55 % Fe & ROM	Actual reported to same at that time.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price per tonne ( below 55 % Fe lumps ): Rs 650 Cost of production per tonne: Rs 538.5	Ex-mine price mentioned has not been matching the corresponding sale values. Cost of production was appear to be same.	Violation pointed out.
9h	Scrutiny of Annual return on fixed assets	Rs 18,50,000	Appear to be same.	NIL
9k	Scrutiny of Annual return on mining machineries	TIPPER(10 cum): 1nos CRUSHER( 100 TPH) : 1 nos WATER TANKER: 1 nos GENERATOR (DIESEL): 1 nos	Information/deployment of excavators and Jack hammer have not been furnished.	Violation pointed out.

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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)	28/02/2020				
MCDR17 Rule 26(2)	28/02/2020				
MCDR17 Rule 33	28/02/2020				
MCDR17 Rule 35(2)	28/02/2020	05/03/2020			
Rule 45(7)(i)	28/02/2020				
MCDR17 Rule 55(1)(3)	28/02/2020				

**Date :**

**(Prashant S Hegde)**

Indian Bureau of Mines