

**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 : **S006** ) **SURESH PRASAD**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. L Ravi Ramu Naidu , Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 17/03/2022
- (v) Prev.inspection date : 05/02/2020

**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 /08392267666,9**
- 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 correspondance** : **11th ward, GADIGI PALACE,**  
**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
		MP review under 17(1) MCR 2016	13/11/2020

## 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.	4 RC holes.	Carried out 4 RC bore holes against 3 backlogbore holes proposed for the year 2019-20.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		M/s. Rock tech enterprises, Hospet,	Allum Prashant Expenditure- 5.48Lakh
1d	Balance area to be explored to bring Geological axis in 1 or 2	9 Bore holes are proposed in RUPM 2021-22 to 2025-26 to explore balance area.		Total Area Mineralized; 17.01 Ha. Unexplored area:25.35Ha.
1e	Balance reserve as on 01/04/20		5735379 Tons as per AR 2020-21.	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration of 4 RC bore holes against 3 backlogbore holes proposed for the year 2019-20.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of development proposed: N1664189.13 N 1664330.50 to E706958.90 E707323.56	Actual location of development: N1664189.13 N 1664330.50 to E706958.90 E707323.56	Production was carried out from north western side of the mining lease which is beyond the proposed location. Hence, violation issued under rule 11(1) of MCDR, 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden proposed.	Separatebenches in overburdenmaintained.	No generation of topsoil working within broken up area.

2c	Stripping ratio or ore to OB ratio	1.0.09	1:1.18	Backlogdevelopment iscarried out.
2d	Quantity of topsoil generation in m3	No proposal.	Not applicable.	No generation of top soil, working within broken up area.
2e	Quantity of overburden generation in m3	7956 tons	65000 tons	BD: ore 3.0 T/Cum and OB 2.0 T/Cum
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine has developed on north western side of the mining lease which is beyond the proposed location. Hence, violation issued under rule 11(1) of MCDR, 2017.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed.	Production carried out in one pit.	1100mm x 50m (5.5 Ha)
3b	Quantity of ROM mineral production proposed	Iron ore-90000tonnes	Iron ore-55500 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90 % - mineral10 %-waste	90 % -mineral10 %-waste	Nil.
3d	Quantity of mineral reject generation	No proposal.	However 8000tons f crushed fines (Below 30% Fe) was generated and staked separately.	Nil.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil.	THV < 30 Fe%
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	Manual &Mechanized method proposed for segregation from ROM	Manual &Mechanized method adopted for segregation from ROM	Manual with deployment of labours by hand sorting & picking. Mechanically using Jaw crusher 50 TPH for Hard lumps (10-40 mm)
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No such beneficiation study carried out in the reporting year.	
3j	Provision of drilling and blasting in mineral benches	Proposed for drilling & blasting in mineral benches.	Deep hole drilling & Blasting was carried out.	Wagon drill is used of 110mm dia. Slurry cartridges of 83 mm is used with shock tube detonation system. Spacing -3m, burden2 m and s.g drilling-0.5 m.
3k	Provision of mining machineries in mineral benches	Proposed: Excavator-1 Trucks-4 Wheel loader-1 Jackhammer -1 Water tanker - 1 (5000 Lts) Crusher & Screener -1 Jeep -1	Deployed mining machineries: Excavator-1 Trucks-4 Wheel loader-1 Jackhammer -1 Water tanker (5000 lit)-01 Crusher & Screener -1 Jeep -1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed benches maximum 6 m Height and minimum 8 m Width.	Benches maximum 6 m Height and minimum 8 m Width maintained.	
3m	Total area covered under excavation/pits	4.24 Ha at the end of plan period.	4.24 Ha.	

3n	Ore to OB ratio for the pit/mine during the year.	1:0.09	1:1.16	Stripping ratio not achieved due to ore and OB production was deviated 30% & 820% from the proposal during the year 2020-21. Hence Violation issued under rule 11(1) of MCDR, 2017.
3o	Total area put in use under different heads at the end of year	Mining - 4.24 Ha. Dumps - 03.00 Ha. Mineral storage 1.36Ha. Infrastructure - Office,worksho p etc.:0.21Ha. Roads :1.17 Green Belt- 2.40 Ha. Mineral separation plant :0.14 Ha. Bio-Diversity : 3.02 Ha. Plantation - 1.16Ha. Unused:25.72 Ha. Total -42.42 Ha.	Mining -4.24 Ha. Dumps -03.00 Ha. Mineral storage:1.36Ha. Infrastructure, Office, workshop etc:0.21 Ha. Roads:1.17 Ha. Green Belt- 2.40 Ha. Mineral separation plant:0.14 Ha. Bio-Diversity:3.02 Ha. Plantation: 1.16 Ha. Unused :25.72 Ha. Total -42.42 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 90000 2017-18: 90000 2018-19: 90000 2019-20: 90000 2020-21 :90000 ( in tonnes)	2016-17: 27000 2017-18: 22800 2018-19: 4000 2019-20: 26000 2020-21 :55500 ( in tonnes)	Deviation observed w. r. to approved proposal of production & development achieved. Thus, violation issued under rule 11(1) of MCDR, 2017.

3q General remarks of inspecting officers on method of mining etc.

Development and production quantity has not achieved and benches are not maintained in proper shape at places. Thus, violation issued.

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.	Separate dumping was carried out as per proposal.	
4b	Location of topsoil, OB and mineral reject dumps	For OB N1664335.04 N 1664412.38 to E707130.77 E707276.72	For OB N1664335.04 N 1664412.38 to E707130.77 E707276.72	No mineral rejectsproposed. However, -6mmfines from crusheris mineral rejectand will be stockedseparately.
4c	Number of dumps within lease area and outside of lease area	Within ML - 2 Nos. Outside ML - Nil.	Within ML - 2 OB dumps &Outside ML -Nil.	Presently onlylnos active dump D1,and linactive dumpD2 inside thelease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB dump proposed outside the UPL.	OB dump carried out outside the UPL	Nil.
4e	Number of active and alive dumps.	One active and alive dump proposed.	One active and alive dump was observed namely AD.	Nil.
4f	Number of dead dumps.	One dead dump proposed.	One dead dump was observed.	Nil.
4g	Number of dumps established.	No proposal.	Nil.	Stabilized byplantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	Nil.	Earlier constructed RW & GD was maintained.
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Nil.	

4j	Number of settling ponds	No proposal.	Nil.	
4k	Specific comments of inspecting officer on waste dump management			Waste dump observed to be maintained as per the 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.	No proposal.	Not applicable.	Mineral persists at depth and hence no proposal.
5b	Area under backfilling of mined out area	No proposal.	Not applicable.	Nil.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Not applicable.	Nil.
5d	Total area fully reclaimed and rehabilitated	No proposal.	Not applicable.	Pit has not matured for backfilling as ore has not been exhausted.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling & reclamation envisaged as area not matured for backfilling.i.e. mineral not fully exhausted

#### 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).	yes	yes	

6b	Area available for rehabilitation (ha) .	No proposal.	Nil.	Pit has not matured for backfilling.
6c	afforestation done (ha).	Proposed 1.01 Ha.	1.01 Ha. area covered by plantation.	
6d	No. of saplings planted during the year	No proposal.	2000 in WML&500 OML.	
6e	Cumulative no .of plants	No proposal.	25000 Nos.	
6f	Any other method of rehabilitation	No proposal.	Terracing and Plantation.	Nil.
6g	Cost incurred on watch and care during the year	No proposal.	1.5 Lakh.	Nil
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)	Environmental monitoring (core zone & buffer zone) Proposed.	Environmental monitoring (core zone & buffer zone) Done.	Air monitoring stations Core zone- 3 Buffer -3 Water monitoring Core zone- 1 Buffer -1 Noise monitoring Core zone- 5 Buffer -3 All the environmental parameters were observed within permissible limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mineral not yet exhausted from the pit. plantation towards safety towards PMCP observed.

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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 lease area.	Grade wise sorting carried out within thelease area.	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Proposed Manual & Mechanical.	Manual with deployment of labours by hand sorting & picking. Mechanically Using Jaw crusher 50 TPH for Hard lumps (10-40mm)	
7c	Different grade of mineral sorted out at mines.	No proposal.	Lumps +35 Fe%	Nil.
7d	Any beneficiation process at mines .	No proposal.	No such beneficiation is carried out	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Minerals of average grade of 38 % Fe is reported for production.

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Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal.	No top soil generation.	Work is carried out in broken up area.
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	Topsoil as and when generated is used for plantation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate for OB proposed.	Separate for OB is maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1.01 ha 2525 nos	1.01 ha 2000 nos within Mining lease area. 500 nos out side mining lease area.	40% survival rate
8g	Survival rate	60%	40%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control airborne dust.	Regular water sprinkling is done on roads to control airborne dust.	Two water tankers of 5000 L capacity used for dust suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Advice to develop and encourage the aesthetic beauty in the mine 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		M.R. Submitted up to March, 2021, Submitted on 05.04.2021 A.R. Submitted for FY 2020-21, submitted on 10.08.021.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: L Ravi Ramu Naidu Geologist: Nil. Mine Manager: L Ravi Ramu Naidu	Geologist engaged in the mine is reported part time, who was not present during the inspection.	Violation issued under rule 55(1)(3)(iii) of MCDR, 2017.

- 9c Scrutiny of Mining - 4.24 Appears to be correct  
 Annual return on Dumps - 03.00  
 land use pattern Mineral  
 for area under storage :1.36.  
 pits, reclaimed Infrastructure  
 area, dumps etc. , Offices,  
 work  
 shop etc :  
 0.21  
 Roads : 1.17  
 Green Belt-  
 2.40  
 Mineral  
 separation  
 plant :0.14  
 Bio-Diversity  
 : 3.02  
 Plantation -  
 1.16 Ha  
 Unused :25.72  
 Total - 42.42
- 9d Scrutiny of Within Mine Appears to be correct.  
 Annual return on Lease: 2000  
 afforestation Outside Mining  
 Lease: 500  
 survival rate  
 40%
- 9e Scrutiny of 8000 MT Appears to be correct.  
 Annual return on mineral reject  
 mineral reject (fines) was  
 generation produced and  
 (Grade and stacked (30  
 quantity) %Fe)
- 9f Scrutiny of ROM: Appears to be correct.  
 Annual return on Opening stock:  
 ROM stock and/or 4500 Tons.  
 graded ore Production:  
 55500Tons.  
 Closing stock:  
 15000Tonne.  
 Grade-wise  
 ore:  
 Lumps: Fe <  
 55% =  
 45000Tons.  
 Fines:Fe< 55%  
 = Nil.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production Rs. 600/- per ton. Ex. Mine price: Iron Ore Lumps: Fe < 55%: Rs.722.18 /- per ton.	The cost of exploration, DMF, NMET have not been furnished and accounted for arriving the cost of production.	Violation issued under rule 45(7) of MCDR,2017.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets: Rs. 1027599/-	As annual returns submitted for the year 2020-21, furnished capitalized expenditure is not accounted for the exploration carried out during the year.	Violation issued under rule 45(7) of MCDR, 2017.
9k	Scrutiny of Annual return on mining machineries	Excavator -1 Tipper -4 Crusher -1 (100 tph) Water tanker - 1(5000 lit)	Appears to be correct.	As per AR water tanker -1(10 lit.)

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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)	06/04/2022				
Rule 45(7)	06/04/2022				
Rule 55	06/04/2022				

**Date :**

**( SURESH PRASAD )**

Indian Bureau of Mines