

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

MCDR inspection REPORT

Bangalore regional office

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

Mine code : 30KAR03133

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri Vinodh S Jadhav, Mine Manager and others.
Official with
Designation
- (iv) Date of Inspection : 15/03/2022
- (v) Prev.inspection date : 10/01/2018

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	:	MP modif under 17(3) MCR 2016	09/07/2018
Plan/Scheme of Mining	:	Modif.approved Mining Scheme	26/11/2019
	:	MP review under 17(1) MCR 2016	19/11/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	nil	-
1b	Exploration over lease area for geological axis 1 or 2	Boreholes With 310m meterage 12 Trial Pits	The drilling of only 3 RC boreholes carried out.	Violation issued.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	Rock tech enterprises, Hospet	Expenditure - Rs 6.5 lakh.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G1- 8.79 Ha G3- 10.494 Ha Unexplored- 57.346ha	19.28 Ha was total potential area.
1e	Balance reserve as on 01/04/20	-	Grade:Iron ore -51.46%Fe MMIO-35.02%Fe	Reserves as on 01.04.2021 Iron ore - 18,25,333tonnes MMIO- 22,12,488tonnes
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The proposed exploration has not been carried out. The violation has been issued.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of Development- N1674634 to N 1674528 E 689275 to E 689459	Location of Development- N 1674500 to 1674750 E 689400 to E 689200	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in Overburden proposed.	Separate benches in Overburden maintained.	-
2c	Stripping ratio or ore to OB ratio	1: 1.07 (in tonnes)	1: 1.57 (in tonnes)	Ore :2,48,000 Waste:3,90,000

2d	Quantity of topsoil generation in m3	No proposal	NIL	-
2e	Quantity of overburden generation in m3	134116 m3	195000 m3	The violation issued.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The development has been carried out more than the proposed. The violation has been issued.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	-
3b	Quantity of ROM mineral production proposed	Iron ore-126888t MMIO-122881t	Iron ore-126000t MMIO-122000t	-
3c	Recovery of sailable/usable mineral from ROM production	95%	Iron ore-100% MMIO-72%	28% mineral Reject.
3d	Quantity of mineral reject generation	No proposal	35000t	As reported in AR2020-21.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	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 and Mechanised method for segregation proposed	Manual and Mechanised method for segregation carried out.	-

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	Deep hole Drilling and Blasting is proposed.	Deep hole Drilling and Blasting carried out.	-
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed- Excavator-2 Tippers-6 Wheel loader-1 Drilling unit -2 Water tanker -1 Crusher & Screener -1 Jeep -1	Machinery deployed: Excavator-2 Trucks-8 Wheel loader-1 Drilling unit -2 Water tanker5000ltr -1 Crusher & Screener -1 Jeep -1	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height- 8m Bench Width- 8m	Bench Height- 8m Bench Width- 8m	-
3m	Total area covered under excavation/pits	2.802 Ha at the end of the plan period.	2.847 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.07 (in tonnes)	1: 1.57 (in tonnes)	Ore :2,48,000 Waste:3,90,000

3o	Total area put in use under different heads at the end of year	Mining -2.802 Ha Dumps -6.37 Ha Mineral storage & Crushing & Screening- 1.012 Ha Infrastructure , work shop building etc- 0.010 Ha Roads- 0.726 Ha Green belt 4.933 Ha Effluent treatment plant: 0.410 Ha Afforestation -0.841 Ha Un used area- 59.526 Ha At the end of plan period.	Mining -2.802 Ha Dumps -6.37 Ha Mineral storage & Crushing & Screening- 1.012 Ha Infrastructure, work shop building etc- 0.010 Ha Roads- 0.726 Ha Green belt - 4.933 Ha Effluent treatment plant: 0.410 Ha Afforestation -0.841 Ha Un used area- 59.526 Ha At the end of plan period.	-
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 46000 2017-18:46000 2018-19:250000 2019-20:250000 2020-21:250000 (in tonnes)	2016-17: 30000 2017-18:45800 2018-19:98800 2019-20:129000 2020-21:248000 (in tonnes)	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	There is no change in method of mining.

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 Overburden is proposed.	Separate Dumping of Overburden carried out.	-
4b	Location of topsoil, OB and mineral reject dumps	Overburden Dump Location- N 1674290 to 1674168 E 688795 to 688900	Overburden Dump Location- N 1674290 to 1674168 E 688795 to 688900 Mineral Reject- N 1673980 to 1664050 E 689250 to 689340	-

4c	Number of dumps within lease area and outside of lease area	Within Lease Area- 6 Outside lease- NIL	Within Lease Area- 6 Outside lease- NIL	A block: D1,D2,D3, PD1a & PD1. B Block: PD-2. D3 is inactive dump which is partly outside the lease area, which has been declared as encroached dump during CEC survey in year July 2011.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the Ultimate Pit Limit.	Outside the Ultimate Pit Limit	-
4e	Number of active and alive dumps.	Two active and alive dumps proposed in A & B Block.	Only one is active dump in B Block namely PD-2.	In Block A, PD-1 the dump inactive since March 2019.
4f	Number of dead dumps.	5 A block: dumps D1,D2,D3, PD1a & PD1.	5 A block: dumps D1,D2,D3, PD1a & PD1.	-
4g	Number of dumps established.	No proposal.	D3 and Part of D1.	An area of about 0.8ha stabilized by plantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposals	NIL	All the measures completed as per the approved R&R.
4i	Length of Retaining wall or garland drain all along dumps	No proposals	NIL	All the measures completed as per the approved R&R.
4j	Number of settling ponds	No proposals	NIL	-
4k	Specific comments of inspecting officer on waste dump management	-	-	There are no specific comments on waste dump management.

Solid Waste Management - Backfilling:

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 proposals	NIL	-
5b	Area under backfilling of mined out area	No proposals	NIL	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals	NIL	-
5d	Total area fully reclaimed and rehabilitated	No proposals	NIL	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	The mineral is still persisting at depth and hence no backfilling is proposed.

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).	To be submitted the annual report on PMCP under Rule26(2)	Annual PMCP Report for the year 2020-21 submitted on 05.08.2021.	-
6b	Area available for rehabilitation (ha) .	0.27ha	0.80ha	-
6c	afforestation done (ha).	0.27ha	0.80ha	-
6d	No. of saplings planted during the year	675	2500	-
6e	Cumulative no .of plants	Not specified	11500	Within the ML
6f	Any other method of rehabilitation	No proposal	Terracing and Plantation on the slope of dumps.	-
6g	Cost incurred on watch and care during the year	Rs1.55lac	Rs3.0lac	-

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals	NIL	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	NIL	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposals	NIL	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	NIL	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals	NIL	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals	NIL	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals	NIL	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals	NIL	-

6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring is proposed for Core and Buffer Zone.	Environment monitoring is being carried out in Core and Buffer Zone.	All the environmental parameters observed to be within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PMCP activities have been 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 is proposed within lease area.	Grade wise sorting carried out within lease area.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical and Manual Sorting proposed.	Manual with deployment of labors by hand sorting & picking.Mechanically using Crushing and Screening.	Mechanical Crushing & Screening-100TPH.
7c	Different grade of mineral sorted out at mines.	Iron ore +45 +40 to -200 mm Iron ore+45 Fe% +6 - 40 mm Iron Ore +45 Fe% -6 mm MMIO +35 Fe% +10-40 mm MMIO -30 Fe% -10 mm	Iron ore 0-55Fe% +40 to -200 mm Iron ore0-55 Fe% +6 - 40 mm Iron Ore 0-55 Fe% -6 mm MMIO 0-55 Fe% +10-40 mm MMIO -30 Fe% -10 mm	Manual sorting in case of MMIO.
7d	Any beneficiation process at mines .	No proposal	NIL	Only dry crushing and screening carried out.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Mineral conservation and beneficiation aspects are carried out as per the proposals.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NIL	No top soil generation.
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 Overburden proposed.	Separate dumping of Overburden is maintained.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	NIL	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	675saplings	2500 Saplings planted within the lease area	500saplings planted outside the ML. As reported in the AR 2020-21.
8g	Survival rate	40%	40%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control airborne dust.	Water tankers are deployed to control the airborne dust on haul roads and screening plant.	water tanker of 5,000 liters capacity.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	There is no change in aesthetic beauty in and around mines.

Compliance of Rule 45:

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 February, 2022. A.R for the year 2020-21 submitted on 10.8.2021.	Appears to be correct.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Prasanna Kumar, Geologist Shri Vinodh S Manager and Mining Engineer.	Appears to be correct.	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining -2.847 Ha Dumps -3.350 Ha Mineral storage- 0.80 Ha Infrastructure , work shop building , Roads- 0.936 Ha R&R-0.80ha PMCP-0.37ha	Appears to be correct.	-
9d	Scrutiny of Annual return on afforestation	2500 saplings planted within the ML with 40% survival rate.	Appears to be correct.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	35000tonne with 30%Fe grade.	Appears to be correct.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S -12041t Production of Iron ore - 127000t C/S - 25541t	Appears to be correct.	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production-Rs 725/tonne. Ex-pricemine- Rs775.22/tonne	Appears to be correct.	-

9h	Scrutiny of Annual return on fixed assets	Fixed Assets- Rs5171418/-	Appears to be correct	-
9k	Scrutiny of Annual return on mining machineries	Machinery deployed: Excavator-2 Trucks-8 Wheel loader-1 Drilling unit -2 Water tanker5000ltr -1 Crusher & Screener -1 Jeep -1	Appears to be correct	-

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)	06/04/2022	03/06/2022	MCDR17	Rule 45(7)	06/04/2022	03/06/2022
MCDR17	Rule 45(7)(a)	06/04/2022	03/06/2022				

Date :

(K.SRINIVAS)

Indian Bureau of Mines