

**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 : **277**) **GANGADHAR BHAKAT**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sri. Veerabhadrayya Pujar, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 07/03/2023
- (v) Prev.inspection date : 15/03/2022

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** : **76.63**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **20/07/2050**
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 : VEERABHADRAYYA PUJAR, Full Time
 Qualification :
 Appointment/ : 01/01/2023
 Termination date

Geologist

Name : PRASANNA KUMAR, Full Time
 Qualification :
 Appointment/ :
 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 proposal	NIL	
1b	Exploration over lease area for geological axis 1 or 2	Proposed 9 Nos Core boreholes up to 270m.	NIL	Total 11 Nos boreholes up to 330m carried out during the year 2022-23. Hence, no violation issued.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	4.95 lakh	Exploration carried by M/s. MSV Analytical Lab., Ballari.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified.	G3 -10.49 Ha Unexplored area 57.346 Ha.	-
1e	Balance reserve as on 01/04/20	--	Grade: Iron ore- 51.46% Fe & MMIO- 35.02% Fe.	Reserves as on 01.04.2022: Iron Ore- 1317214 Tons & MMIO- 3500265 Tons
1f	General remarks of inspecting officers on geology, exploration etc			Exploration carried out 11 Nos of boreholes up to 330m during the year 2022-23. Hence, no violation issued.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed : N 1674440 to E 16714645 & 689287 to 689478 (Sections line E E' to I I').	N 1674480 to 1674650 & E 689290 to 689480	Production carried out between the Sections line E E' to I I'.
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: 1.429	1:1.51	Violation issued for less Production and Development achieved. Ore-152000 ton Waste-230000 ton.
2d	Quantity of topsoil generation in m3	NA	NIL	No topsoil generation.
2e	Quantity of overburden generation in m3	178600 Cum.	115000 Cum.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Violation issued for less Production and Development achieved. Production carried out between the Sections line E E' to I I' as per proposal.

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 - 127000 Tons & MMIO-123000 Tons	Iron Ore -31000 Tons & MMIO-121000 Tons	Violation issued.
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	--
3d	Quantity of mineral reject generation	12090 Tons.	30250 Tons.	As per AR for the year 2021-22.
3e	Grade of mineral rejects generation and threshold value declared.	30% to <35% Fe	30% to <35% Fe	Mineral reject stacking separately as per proposed location.
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	Mechanized method proposed for segregating from ROM.	Mechanized method adopted for segregating from ROM.	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	No such beneficiation study carried out.	-
3j	Provision of drilling and blasting in mineral benches	Proposed drilling & blasting in the mineral benches	Carried out as per proposal.	-
3k	Provision of mining machineries in mineral benches	Excavator-03 Nos. Tippers-14 Nos. Wheel loader-2 Nos. Drilling machine -1 No. Water tanker - 2 Nos. Crusher & Screener -2 Nos. Jeep -1 No.	Excavator-03 Nos. Tippers -14 Nos. Wheel loader-2 Nos. Drilling machine -1 No. Water tanker -2 Nos. Crusher & Sc -2 Nos.	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed bench height 9m & bench width 9 m.	Maintained bench height 8 m & bench width 9 m.	-
3m	Total area covered under excavation/pits	3.118 Ha.	3.118 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 2	1:1.51	Ore- 152000 te Waste- 230000 te

3o	Total area put in use under different heads at the end of year	Mining -3.118 Ha. Dumps -6.21 Ha Mineral storage - 0.80 Ha, Roads- 0.726 Ha Infrastructure, work shop building etc- 0.01 Ha Green belt - 4.933 Ha	Mining -3.118 Ha. Dumps -4.082 Ha. Mineral storage - 0.80 Ha, Roads- 0.726 Ha Infrastructure, work shop building etc- 0.01 Ha Green belt - 4.933 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 46000 2018-19:250000 2019-20:250000 2020-21:200005 2021-22:200060 (in tonnes)	2017-18: 45800 2018-19:98800 2019-20:129000 2020-21:248000 2021-22:152000 (in tonnes)	
3q	General remarks of inspecting officers on method of mining etc.			There is no change in method of mining. The production carried out within the proposed location.

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 & Mineral rejects Proposed.	Separate dumping is maintained as per proposal.	-
4b	Location of topsoil, OB and mineral reject dumps	For OB- N 1674180 to 1674305 & E 688750 to 688857	For OB- N 1674186-1674298 To E 688681 to 688859 Mineral Reject - N 1673980 to 1674050 to E 689250 to 689340	No topsoil generated during the year 2021-22.
4c	Number of dumps within lease area and outside of lease area	Within lease area - 6,	Outside lease area - Nil.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL.	OB dumping carried out Outside UPL.	

4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	5	5	
4g	Number of dumps established.	No proposal.	0.49 Ha.	Part of PD1 & PD1a is stabilized by plantation.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining Wall and Garland Drain proposed all along the dump.	Yes, Retaining wall & garland drain are maintained all along the dumps.	
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall -100 m & Garland Drain -100 m.	Retaining Wall -100 m & Garland Drain -100 m.	-
4j	Number of settling ponds	No proposal	NIL	
4k	Specific comments of inspecting officer on waste dump management			There is no specific comments on waste dump management.

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	Nil	Mineral has not been exhaust from the pit.
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 proposal	NIL	
5d	Total area fully reclaimed and rehabilitated	No proposal	NIL	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No backfilling proposed for the year 2021-22.
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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).	Annual report on PMCP to be submitted by 1st June every year.	PMCP report for the year 21-22 was submitted on 24.06.2022.	--
6b	Area available for rehabilitation (ha) .	No proposal.	NIL	-
6c	afforestation done (ha).	0.49 Ha	0.49 Ha	-
6d	No. of saplings planted during the year	1000 Nos. sapling proposed.	2000 no of saplings planted.	As per AR 2021-22.
6e	Cumulative no .of plants	--	2000 saplings.	--
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	Rs. 1.5 Lakh	Rs. 1.5 Lakh	-
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	600 Nos	1000 Nos	Afforestation done in safety zone.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.25 Ha	0.25 Ha	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal.	Plantation carried out.	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring proposed in core zone & buffer zone.	Environmental monitoring carried out by MSV Analytical laboratory, Bellary.	All the environmental parameters were observed to be within the permissible limits.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental monitoring carried out by MSV Analytical laboratory, Bellary. All the environmental parameters were observed to be within the permissible limits.
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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 and size wise sorting proposed within the lease area.	Grade wise and size wise sorting is done within the lease area.	--
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical method adopted for grade-wise sorting.	Only dry Crushing and screening.
7c	Different grade of mineral sorted out at mines.	Lumps: Below 55%. Fines: Below 55%	Lumps: Below 55%. Fines: Below 55%	
7d	Any beneficiation process at mines .	No proposal	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Only dry Crushing and screening adopted for grade-wise sorting of mineral.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal.	Nil.	Work is carried out within broken up area.

8b	Concurrent use or storage of topsoil	No Proposal.	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for OB & Mineral reject Proposed.	Separate dumping carried out for OB & Mineral reject as per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal.	Nil.	No topsoil generated during the year 2021-22.
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)	No Proposal.	NIL	-
8g	Survival rate	No Proposal.	50%	-
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control airborne dust.	Water tanker deployed to control airborne dust on haul roads and screening plant.	Water tanker 5000 Ltr. capacity.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			There is no change aesthetic beauty in and around mines area.

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 Jan, 2023 ***** A.R. Submitted up to 2021-22	M.R. submitted on 07/02/2023. A.R submitted on 21/06/2022.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Veerabhadrayya Pujar. Geologist- Prasanna Kumar.	Appear to be correct.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining -3.118 Ha. Dumps -4.082 Ha. Mineral storage - 0.80Ha, Roads- 0.726 Ha Infrastructure , work shop building etc- 0.01 Ha Green belt - 4.933 Ha	Appear to be correct.
9d	Scrutiny of Annual return on afforestation	WML: 3000 Nos, OML : 500Nos survival rate: 50%	Appear to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	30250 Tons with 34% Fe grade.	Appear to be correct.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock of ROM: 24541 Tons ROM Production: Tons. 152000 Tons. Closing Stock of ROM: 79744.75 Tons.	Violation issued. Opening stock for the year 2021-22 is not matching with the closing stock of the year 2020-2.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price: Lumps Rs. 1403.03/- per ton Fines Rs. 1380.03/- per ton production cost: Rs. 911.34/- per ton	Violation issued for Ex-mine price of Hematitic Iron Ore has not been furnished correctly.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 5206212 /-	Appear to be correct.
9k	Scrutiny of Annual return on mining machineries	Excavator-03 Nos. Tippers -14 Nos. Wheel loader-2 Nos. Drilling machine -1 No. Water tanker - 2 Nos. Crusher & Sc - 2 Nos.	Appear 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)	02/05/2023			
MCDR17	Rule 45(7)(a)	02/05/2023			

Date :

(GANGADHAR BHAKAT)

Indian Bureau of Mines