

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/454/BNG

Mine code : 30KAR03157

- (i) Name of the Inspecting : 277) GANGADHAR BHAKAT
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sri.Bharathi Dasan, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 15/09/2022
- (v) Prev.inspection date : 24/06/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : KALLAHALL ML 2538
- (b) **Registration NO.** : IBM/217/2011
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : BELLARY
- Village : KALLAHALLI
- Taluka : HOSPET
- Post office : KALLAHALLI
- Pin Code :
- FAX No. : 080-41224388 (F),
- E-mail : premapawan@gmail.com,hnp25:
- Phone : 080-22200484 (O), 990176666
- (f) Police Station : SANDUR
- (g) First opening date : 01/03/2007
- (h) Weekly day of rest : SUN
2. Address for : H.N.PREMKUMAR
correspondance : 3rd CROSS, 3rd MAIN, RMV V 2nd STAGE, HIG COLON
BANGALORE - 560 094.
3. (a) Lease Number : ~~KAR1502~~ ML No.2538
- (b) Lease area : ~~19.15~~ 19.29 Ha
- (c) Period of lease : ~~20~~ 30 Years
- (d) Date of Expiry : ~~27/02/2027~~ 27/02/2037
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : H.N.PREMKUMAR,
BELLARY KARNATAKA
Phone:
FAX :

Owner : H.N.PREMKUMAR
BELLARY KARNATAKA
Phone:
FAX :

Agent : H P AMARNATH
NO 35 , 3 rd CROSS, 3 rd
MAIN, RMV 2 nd STAGE HIG
COLONY, BANGALORE BANGALORE
KARNATAKA
Phone: 9901922369
FAX :

Mining Engineer

Name : MANOJ KUMAR, Full Time
Qualification : AMIE (MINING)
Appointment/ : 16/08/2022
Termination date

Geologist

Name : M Nagarjuna, Full Time
Qualification : M.Sc GEOLOGY
Appointment/ : 13/09/2021
Termination date

Manager

Name : BHARATHI DASAN
Qualification : FCC
Appointment/ : 04/12/2017
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 11/12/1997
Modif.of approved Mining Plan 21/08/2007
Mining Scheme rule 12 MCDR1988 13/02/2015
MP review under 17(1) MCR 2016 25/01/2017
MP modif under 17(3) MCR 2016 25/10/2017
MP review under 17(1) MCR 2016 11/09/2018

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.	G1 level: 12.46 Ha. G2 level: 3.84 Ha.	Out of 19.29 Ha., 2.99 Ha is non-mineralized and lessee has explored Mineralized area in G1 level (12.46 Ha) & G2 level (3.84 Ha)
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	--	
1d	Balance area to be explored to bring Geological axis in 1 or 2	3.84 Ha.	3.84 Ha.	
1e	Balance reserve as on 01/04/20	--	1.989 Million Tons	
1f	General remarks of inspecting officers on geology, exploration etc			Lessee has explored Mineralized area up to G1 level 12.46 Ha & G2 level 3.84 Ha.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-1 and Pit-3	Pit-1 and Pit-3	Carried out within the lease, however pit no. 3 bench height extending beyond the approved limit. Violation issued.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden and mineral proposed.	As per proposal.	
2c	Stripping ratio or ore to OB ratio	1:0.35	1:1.40	Ore: 50,000 T OB: 70,000 T

2d	Quantity of topsoil generation in m3	No Proposal.	Nil	No topsoil generated during the year 2021-22. Excavation within the broken up area.
2e	Quantity of overburden generation in m3	10520 Cub. M	26923 Cub. M	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			In pit no. 3 deviation observed in location of development violation issued.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 No's of pit (Pit-1 and Pit-3) proposed.	2 No's of pit (Pit-1 and Pit-3) production carried out as proposed.	
3b	Quantity of ROM mineral production proposed	1,17,824 Tonnes	50,000 Tonnes	Less production carried out during the year 2021-22. Violation issued.
3c	Recovery of sailable/usable mineral from ROM production	80%	Entire ROM is salable with negligible quantity of mineral rejects.	
3d	Quantity of mineral reject generation	No Proposal.	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal.	NIL	
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.	Dry crushing and screening is done at the mine for segregation of lumps and fines.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation proposed.	Nil.	Dry crushing and screening is done at the mine for segregation of lumps and fines.
3j	Provision of drilling and blasting in mineral benches	Atlas CopcoXAH 210 Compressor &Wagon drill Dia - 115 mm	Atlas CopcoXAH 210 Compressor &Wagon drill Dia - 115 mm	
3k	Provision of mining machineries in mineral benches	Excavator WithTipper combination	Excavator WithTipper combination	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height 6 Mtrs&Width 12mtrs proposed.	In Pit 3, Height of thebenches not maintained asproposed.	In mineral, heightof the benches not maintained as proposed, violation pointed out.
3m	Total area covered under excavation/pits	Total area under Excavation 5.60 Ha	Total area under Excavation 5.60 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.35	1:1.40	Ore:50,000 tonnes OB: 70,000 tonnes
3o	Total area put in use under different heads at the end of year	Total area mining put to use:5.60 ha Overburdendumps 2.51ha Mineralstorage 0.86 ha Roads 1.10 ha Green belt1.22 ha Overlap 3.15ha Undisturbed4.84 ha	Total area mining put in use: 5.60 ha Overburden dumps 2.51 ha Mineral storage 0.86 ha Roads 1.10 ha Green belt 1.22 ha Overlap 3.15 ha Undisturbed 4.84 ha	

3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 70000 2018-19 - 117824 2019-20 - 117824 2020-21 - 117824 2021-22 - 117824 (In tonnes)	2017-18 - 70000 2018-19 - 117824 2019-20 - 117824 2020-21 - 85000 2021-22 - 50000 (In tonnes)	Less production violation issued.
3q	General remarks of inspecting officers on method of mining etc.			In Pit no. 3, Benches height not maintained as proposed in the Mining Plan, violation pointed out.

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.	Carried out as per proposal.	Hematitic Siliceous Iron Ore stakingSeparately as proposed for the year 2022-23.
4b	Location of topsoil, OB and mineral reject dumps	North west of the lease area.	North west of the lease area.	Dumping of waste done at the proposed location.
4c	Number of dumps within lease area and outside of lease area	Within lease: 2 nos. Active dump - 1, in active dump -1	Within lease: 2 nos. Active dump -1 in active dump -1 Outside lease: Nil	Both the dumps are within the lease.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Location of dump: E 652814 to 653018 & N 1683509 to 1683733	Dumping carried out as per proposal.	Temporary dumping carried out within the UPL.
4e	Number of active and alive dumps.	Active dump - 1, In active dump - 1	Active dump - 1, In active dump - 1 (WML)	
4f	Number of dead dumps.	Dead dump -1	Dead dump -1 (OML).	

4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	Retaining wall and Garland drain constructed all along dumps.	
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Not applicable.	
4j	Number of settling ponds	No proposal.	Not applicable.	
4k	Specific comments of inspecting officer on waste dump management			No generation of top soil, Temporary dumping carried out within the UPL/ proposed location.

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	
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)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mineral has not exhausted in the working pit.

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).	Yes	Submitted	Annual Report on PMCP submitted on 12/07/2022
6b	Area available for rehabilitation (ha) .	No proposal.	NIL	
6c	afforestation done (ha).	0.24 ha plantation proposed.	Carried out as per proposal.	0.24 ha plantation during the year 2021-22.
6d	No. of saplings planted during the year	1500 Nos.	2000 Nos.	Plantation done in safety zone.
6e	Cumulative no .of plants	--	12000 Nos.	
6f	Any other method of rehabilitation	No proposal.	NIL	
6g	Cost incurred on watch and care during the year	--	Rs. 160200/-	Information furnished by the lessee during inspection.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	Nil.	Mineral has not exhausted from working pit.
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 proposed in core zone & buffer zone.	Environmental monitoring carried out periodically for Air, water, soil & Noise by MSV Analytical Lab. Ballari.	Environmental parameters were observed to be within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mineral has not exhausted from pits.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal.	Size-wise (Lumps & Fines) sorting at mine site	Graded material dispatched from mine site.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method proposed for mineral sorting.	Mechanical method adopted for mineral sizing and sorting.	By using crushing & screening.
7c	Different grade of mineral sorted out at mines.	No proposal.	Different grade sorted out.	Lumps & Fines sorted with grade of Fe: 0 to 55%, 55 to 58% and 58 to 60%
7d	Any beneficiation process at mines .	No proposal.	Not applicable.	Crushing & Screening is use for separation of lumps & fines.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mechanical method adopted for mineral sorting with dry crushing & screening.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil.	No top soil generated, working only 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 proposed for OB.	Carried out as per proposal.	HSIO is staking Separately as proposed for the year 2022-23.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Nil.	Mineral not exhausted.

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)	1500 Nos. of sapling proposed.	2000 Nos.	Cumulative of 12000 nos. of sapling done.
8g	Survival rate	NIL	70%	
8h	Water sprinkling on roads to control airborne dust	Yes.	Water tankers are used to control airborne dust on road.	Water tankers capacity of 12000 Ltrs.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Hematitic Siliceous Iron Ore staking Separately as proposed in the next plan period.

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 August 2022 A.R submitted up to Year 2021-22		M. R. submitted on 06/09/2022 A.R submitted on 18/06/2022
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	"Mines Manager: BharathiDasan, B.Tech in Mining. "Geologist: M. Nagarjuna, M.Sc. in Geology	Appears to be correct.	As per the AR for the year 2021-22.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under Current (O/C) working:5.60 ha. Waste dump: 2.51 ha. Mineral storage: 0.86ha. Occupied by plant, buildings, residential, welfare buildings & roads: 0.77ha Others: 10.41ha	Appears to be correct.	As per AR FY 2021-22
9d	Scrutiny of Annual return on afforestation	WML:0, OML: 2000 Nos. & survival rate:70%	Plantation within mining lease area observed in safety zone.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	Appears to be correct.	No mineral reject generated.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock of ROM: 39000 Tons. Closing Stock of ROM: 39000 Tons. ROM Production: Tons. 50000 Tons. Opening Stock of Dump Working 18000 Tons. Closing Stock of Dump Working: 18000 Tons. Grade wise production:- Lumps:Below 55% 13000 Tons, 55% to below 58% 5000 Tons.58% to below 60% 1000 Tons Fines:Below 55% 31000 Tons.	Appears to be correct.	As per AR-2021-22
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value of Lumps: Rs. 3003.185 perton. Sale value of Fines: Rs. 1249.896 per ton. Lumps: Ex. Mine price below 55% Rs. 1787 /ton 55 to 58% Rs. 5456 /ton 58 to 60% Rs. 4073 /ton Fines Ex. Mine price below 55% Rs. 1250 /ton production cost: 2220.00/-	Appears to be correct.	As per AR for the year 2021-22.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 39160818 /-	Appears to be correct.	As per AR-2021-22

9k Scrutiny of "Excavator - 3 Appears to be correct.
Annual return on NOS.
mining "Crusher -
machineries 1No.
 "Loaders - 2
 No's.
 "Tippers - 4
 No's.
 "Water tankers
 - 1 No.
 "Generators -
 1 No.

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)	29/09/2022			
MCDR17	Rule 34(1)	29/09/2022			
MCDR17	Rule 45(7) (a)	29/09/2022			

Date :

(GANGADHAR BHAKAT)

Indian Bureau of Mines