

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

Review and updation of Mining Plan REPORT

Bangalore regional office

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

Mine code : 30KAR03157

- (i) Name of the Inspecting : **S47**) **DR. Sudhakara T.L**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Bharathi Dasan, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 06/01/2022
- (v) Prev.inspection date : 21/12/2016

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), 99017666**
- (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**
- (b) **Lease area** : **19.15**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **27/02/2027**
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 : SHIVARAJ CHOUTAGI, Full Time
Qualification : BE MINING
Appointment/ : 21/06/2021
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	Nil	12 Nos	Back log of proposals made during (2018-2019 & 2019-2020) carried out .
1b	Exploration over lease area for geological axis 1 or 2	NIL	G1 level: 12.46Ha G2 level: 3.84Ha	Out of 19.29 Ha, 2.99 Ha is non-mineralized and lessee has explored Mineralized area in G1 level (12.46ha) and G2 level (3.84Ha)
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Rs.312582	
1d	Balance area to be explored to bring Geological axis in 1 or 2	5.60 Ha	5.60 Ha	
1e	Balance reserve as on 01/04/20	2.8339 million tonnes	2.8339 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Backlog of the exploration completed. Out of 19.29 Ha, 2.99 Ha is non-mineralized area and lessee has explored Mineralized area in G1 level (12.46ha) and G2 level (3.84Ha).

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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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 in pit no. 3, development extending beyond the approved limit, violation pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate Benches in Overburden and mineral.	Separate Benches in Overburden and mineral maintained as proposed.	
2c	Stripping ratio or ore to OB ratio	1:0.25	1:0.54	Ore:100000 OB: 54480
2d	Quantity of topsoil generation in m3	None	None	Excavation within the broken up area.
2e	Quantity of overburden generation in m3	10520 m3	20953 m3	
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 pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit-1 and Pit-3	Pit-1 and Pit-3	Production done in Pit1 and Pit 3
3b	Quantity of ROM mineral production proposed	117824 tonnes	1,00,000 tonnes	Less production due to CEC capping
3c	Recovery of sailable/usable mineral from ROM production	80%	Entire ROM is salable, there is small quantity of Mineral reject	
3d	Quantity of mineral reject generation	No proposal	None	
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 adopted	Mechanized method adopted	Dry crushing and screening is done at mine site for separation 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 mine site for separation of lumps and fines
3j	Provision of drilling and blasting in mineral benches	Atlas Copco XAH 210 Compressor & Wagon drill Dia - 115 mm	Atlas Copco XAH 210 Compressor & Wagon drill Dia - 115 mm	
3k	Provision of mining machineries in mineral benches	Excavator With Tipper combination	Excavator With Tipper combination	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 Mtrs height 12mtrs Width	In Pit 3, Height of the not maintained as proposed.	In mineral, height of 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.	1:0.25	1:0.54	Ore:100000 tonnes OB: 54480 tonnes

3o	Total area put in use under different heads at the end of year	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	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	2016-17 70000 2017-18 70000 2018-19 117824 2019-20 117824 2020-21 117824	2016-17 70000 2017-18 70000 2018-19 117824 2019-20 117824 2020-21 100000

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.
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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)	No Proposal	NIL	
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)	652814 - 651314 - 1683512 - 1683733	Dumping carried out at proposed location, outside UPL Dumping carried out at proposed location, outside UPL	

4e	Number of active and alive dumps.	Active dump -1 EID -1	Active dump -1 EID -1	
4f	Number of dead dumps.	Dead Dumps -1	Dead Dumps -1	
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	NIL	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			No generation of top soil, since the working is confined to within the broken up area. Retaining wall and garland drain constructed all along dumps.

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)	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 reclamation and rehabilitation proposed and done in the mining pit, since, mining pits are not matured for backfilling, ore exists beneath the working level.
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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).	YES	Submitted	Annual Report on PMCP Submitted 29.06.2021
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.24 ha plantation proposed	0.24 ha	0.24 ha plantation done during the year
6d	No. of saplings planted during the year	1500 Nos	2000 Nos.	Plantation done in safety zone
6e	Cumulative no .of plants	--	10000 Nos.	
6f	Any other method of rehabilitation	NO	NO	
6g	Cost incurred on watch and care during the year	No proposal	Rs.160200	As reported by lessee during inspection
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	Pit not matured for backfilling, mineral exist beneath the working level.
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)	Yes	Environment Monitoring Carried out	Environment Monitoring Carried out by MSV Analytical Laboratories Ballari
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP activities carried out as per approved proposals. Environment Monitoring Carried out in core and buffer zone.

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 done at mine site.	Graded material dispatched form mine site.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	By Mechanical Method of Sorting	By Mechanical Method of Sorting	By using crushing and 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%; Fe 55 to 58%; Fe 58 to 60% and 60 to 62%
7d	Any beneficiation process at mines .	No beneficiation	No beneficiation	Crushing and screening carried out for separation of lumps and fines
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM has been subjected to crushing and screening and lumps and fines separated. Different grade material dispatched from the mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	NIL	Excavation is mainly at broken-up area.
8b	Concurrent use or storage of topsoil	No Proposal	Nil	Topsoil generated has been used for afforestation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	Dumping of waste and BHQ carried out separately

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)	1500 nos. plantation proposed	2000 done	Outside lease area
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.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Asthetic beauty in around mine maintained. Need more plantation.

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 - December 2021 A.R. submitted up to Year 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager - Bharath Dasan Mining Engineer - Shri L Shashidhara	Same officials were available during the inspection	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under mining: 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	Appears to be correct	
9d	Scrutiny of Annual return on afforestation	Within mining lease area : 0 Outside Mining area :2000	Plantation within mining lease area observed in satey zone	Suggested lessee to carryout more planation.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: 5400 Dump workings: 18000 Lumps: Below 55% Fe: 4000.01 Fe 55% to below 58%: 0.03 Fines Below 55% Fe: 6000.06 Fe 55% to below 58%: 1.08	Appears to be correct.	Stocks were handled during the date of inspection.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value of Lumps : Rs. 2596.008 per ton Sale value of fines: 698.54/ton Ex-Mine Price Lumps: Below 55% Fe : Rs. 733/ton 55-58%: Rs. 2779/ton 58-60% Fe: rs. 4620/tone Fines: Ex-Mine Price Below 55% Fe : Rs. 649/ton 55-58%: Rs. 3900/ton Cost of production Rs. 1992/ton	Appears to be correct.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets is Rs. 41971082	Appears to be correct.
9k	Scrutiny of Annual return on mining machineries	Tripper - 05 Loaders - 02 Excavator - 03 Crusher 01 Water tanker - 01	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)	27/01/2022	24/03/2022				

Date :

(DR. Sudhakara T.L)

Indian Bureau of Mines