

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/457/BNG

Mine code : 30KAR03164

- (i) Name of the Inspecting : 277) GANGADHAR BHAKAT
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr.Sandeep Reddy K, Mining Engineer, Mr.Tejas K, Geol
Official with
Designation
- (iv) Date of Inspection : 16/09/2022
- (v) Prev.inspection date : 06/02/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : JAISINGHPUR
- (b) **Registration NO.** : IBM/175/2011
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : BELLARY
- Village : JAISINGHPUR
- Taluka : SANDUR
- Post office : JAISINGHPUR
- Pin Code :
- FAX No. : 08394-230644
- E-mail : srilakshminerals@yahoo.co
- Phone : 08394 - 230644, 9880765116
- (f) Police Station : SANDUR
- (g) First opening date : 18/04/2007
- (h) Weekly day of rest : SUN
2. Address for : K. R.KAVIRAJ, Proprietor, M/s Lakshmi MINERALS
correspondance 601, 7th Main,Balanjaneya Temple,M.J Nagar,
Hospet, BELLARY - 583201
3. (a) Lease Number : ~~KAR1480~~ ML No.2545
- (b) Lease area : ~~36.42~~ 34.14Ha
- (c) Period of lease : ~~20~~ 50Years
- (d) Date of Expiry : ~~17/04/2027~~ 17/04/2057
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : LAKSHMI MINERALS.
 No-601, 7th Main, Near
 Balanjaneya Temple, M.J.
 Nagar Hospet BELLARY
 KARNATAKA
 Phone:08394-230644
 FAX :

Owner : K.R.KAVIRAJ
 No. 601, 7th Main, Near
 Balanjaneya Temple, M.J.
 Nagar, Hospet BELLARY
 KARNATAKA
 Phone: 08394-230644
 FAX :

Agent : Venkatesh Raju
 601,7th Main,Balanjaneya
 Temlp M.J.Nagar,Hospet.
 BELLARY KARNATAKA
 Phone: 08394-230644
 FAX :

Mining Engineer

Name : Sandeep Reddy K, Full Time
 Qualification : B.E MINING
 Appointment/ : 24/06/2021
 Termination date

Geologist

Name : TEJAS K, Full Time
 Qualification : M.SC GEOLOGY
 Appointment/ : 24/06/2021
 Termination date

Manager

Name : Sudarshan B
 Qualification : FCC
 Appointment/ : 24/06/2021
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 11/07/2014
 MP review under 17(1) MCR 2016 04/11/2016
 MP modif under 17(3) MCR 2016 15/06/2018
 MP review under 17(1) MCR 2016 21/04/2022

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2021-22 proposed 30 nos. of pits.	35 nos. of Trial pits carried out.	Dimension of pit about 2.5m(L)x2.5m(W)x5m(D)
1b	Exploration over lease area for geological axis 1 or 2	No proposal.	Area under G1 :26.54 Ha G2 : 7.60 Ha	Non-mineralized area 0.37 Ha
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal.	Chaithanya Geo-chem, Hosapete. Rs 122500/- at the rate of Rs 3500/- per pit	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	NIL	7.60 ha of area is remaining in G2 to be converted to G1 in next plan period.
1e	Balance reserve as on 01/04/20	--	1.714 MMT (As on 01.04.2022)	Average grade of Fe 56%
1f	General remarks of inspecting officers on geology, exploration etc			Out of 34.14 Ha., Non-mineralized area 0.37 Ha & lessee has covered 7.60 ha area under G2 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed 2 locations during the year 2021-22 North Block E-653800 to 653600 N-1678400 to 1678200 South Block E-654100 to 653900 N-1678200 to 1678000	Carried out with in the proposed location at North Block.	Mine was working only 153 days during the year due to requirement of clearances from forest Dept.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal.	Nil.	As the deposit is float in nature, no top soil or over burden is available.
2c	Stripping ratio or ore to OB ratio	1:0.22	1:0.27	
2d	Quantity of topsoil generation in m3	No proposal.	NIL	
2e	Quantity of overburden generation in m3	10000	6050	Mine was working only 153 days during the year due to requirement of approach road clearances from forest Dept.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine was not regularly working due to lack of approach road clearances from forest Dept.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 (North Block and South)	01 (North Block)	
3b	Quantity of ROM mineral production proposed	90000 Tons	44000 Tons	Mine was working only 153 days during the year due to requirement of approach road clearances from forest Dept.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal.	4000tons	Temporary stake at North Block.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Grade : 34% 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	Proposed for segregating of mineral from ROM by Mechanized method.	Segregating of mineral from ROM by Mechanized method adopted.	
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	No proposal.	NIL	Float ore mining.
3k	Provision of mining machineries in mineral benches	Excavator-01, Tipper-02, Wheel loader and Mobile screen.	Excavator-01, Tipper-06, Wheel loader-2, Mobile screen-1, Back Hoe- 1.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of mineral benches are varies from 1.5m to maximum 5m.	YES	
3m	Total area covered under excavation/pits	11.46 Ha for plan period.	7.09Ha	During the plan period 2017-18 to 2021-22
3n	Ore to OB ratio for the pit/mine during the year.	1:0.22	1:0.27	
3o	Total area put in use under different heads at the end of year	Working- 11.46Ha Waste dump- 0.10Ha, Roads- 2.5Ha Plant & Mineral storage-3.10Ha Others-6.96Ha	Working-7.09Ha Waste dump-0.10Ha, Roads- 2.5Ha Plant & Mineral storage- 1.56Ha Others-6.96Ha	

3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 90000 2018-19 - 90000 2019-20 - 90000 2020-21 - 90000 2021-22 - 90000 (In tons)	-	2017-18 - Nil 2018-19 - Nil 2019-20 - Nil 2020-21 - Nil 2021-22 - 44000t (In tons)	Mine was working only 153 days during the year due to requirement of approach road clearances from forest Dept.
3q	General remarks of inspecting officers on method of mining etc.				Mine was working only 153 days during the year due to requirement of approach road clearances from forest Dept.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Concurrent backfilling proposed.	4000 Tons of mineral reject temporary stacked at North block.	Mineral not exhausted from pit.
4b	Location of topsoil, OB and mineral reject dumps	No proposal.	Nil.	No top soil generated during the year 2021-22.
4c	Number of dumps within lease area and outside of lease area	No proposal of Concurrent back filing isproposed.	Carried out as per proposal.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	NIL	
4e	Number of active and alive dumps.	No proposal.	Two nos. of inactive dump present at northern part of the lease area.	
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	No proposal.	Nil.	Both the inactive dumps are stabilized by plantation work.

4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	NIL	
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	NIL	Maintenance work carried out earlier constructed structure.
4j	Number of settling ponds	No proposal.	NIL	
4k	Specific comments of inspecting officer on waste dump management			Mineral has not fully exhausted from pit.

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.	After extraction of Av. 2.89 mts of float ore depth concurrent back filling is proposed.	Nil.	Mineral has not exhausted from pits.
5b	Area under backfilling of mined out area	1.38 Ha	Nil.	Mineral has not exhausted from pits.
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	1.38 Ha	Nil.	Mineral has not exhausted from pits.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mineral has not exhausted from pits. Hence, pit is not matured for concurrent back filing

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.	Annual report on PMCP for 2021-22 was submitted on 18th April 2022 through e-mail.	
6b	Area available for rehabilitation (ha) .	1.38 ha	NIL	
6c	afforestation done (ha).	No proposal.	1.2 ha of safety zone covered.	Plantation was carried out by the lessee at safety zone and haulage road.
6d	No. of saplings planted during the year	No proposal.	2500 Nos.	Plantation was carried out by the lessee at safety zone and haulage road.
6e	Cumulative no .of plants	No proposal.	7000 Nos.	
6f	Any other method of rehabilitation	No proposal.	NIL	
6g	Cost incurred on watch and care during the year	No proposal	Rs 6.25 lakh	Information furnished by the lessee during inspection.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.38 ha	NIL	Mineral has not exhausted from pits.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.38 ha	NIL	Mineral has not exhausted from pits.
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	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 for Air, Water & Noise at core zone & buffer zone.	Carried out records verified during inspection	All the parameters are within the limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental monitoring of Ambient air quality, Ground water & Noise level for core zone & buffer zone carried out by SLN Testing Lab. Bangalore. All the parameters are within the permissible limit.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	90000 Tons	44000Tons	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method proposed for grade-wise mineral sorting.	Mechanical/ manual method adopted for grade-wise mineral sorting.	Float ore mining.
7c	Different grade of mineral sorted out at mines.	+45% Fe	0to55%- 28000 Tons 55to58%- 10000Tons	Mineral +35% to <45% Fe stacked separately.
7d	Any beneficiation process at mines	No proposal	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Hematitic siliceous iron ore stacked separately.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil.	No top soil generated.
8b	Concurrent use or storage of topsoil	No proposal.	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No dumps were proposed.	NIL	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Concurrent back filling proposed.	Nil.	Mineral has not exhausted.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Concurrent back filling & simultaneous plantation.	Nil.	As the pit was not matured for concurrent back filling.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	4500 no of saplings were planted and no additional plantation was proposed.	Total 2500 nos. of sapling were planted during the year 2021-22.	WML 2000 nos. and OML 500nos. were planted during the RY 2021-22.
8g	Survival rate	80%	75%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul road proposed.	Water sprinkling was carried out for dust control.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mines area is good.

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 30/06/2022
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: K Sandeep Reddy, B. Tech in Mining. Geologist: Tejas K, M.Sc. in Geology	Appears to be correct.	As per AR FY 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: 7.09 ha. Waste dump: 0.10 ha. Roads- 2.5Ha Plant & Mineral storage-1.56Ha Others-6.96Ha	Appears to be correct.	As per AR FY 2021-22
9d	Scrutiny of Annual return on afforestation	WML: 2000, OML: 500 Nos. & survival rate: 75%	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject 4000 Tons (34% Fe).	Appears to be correct.	Mineral reject stacked separately.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock of ROM: Nil. Closing Stock of ROM: 6000 Tons. ROM Production: Tons. 44000 Tons. Grade wise production:- Lumps: Below 55% 15000 Tons, 55% to below 58% 6000 Tons. Fines: Below 55% 13000 Tons. 55% to below 58% 4000 Tons.	Appears to be correct.	As per AR-2021-22

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Lumps: Ex. Mine price below 55% Rs. 2954.0 /ton 55 to 58% Rs. 3800.0 /ton Fines Ex. Mine price below 55% Rs. 1150 /ton 55 to 58% Rs. 2854.0 /ton production cost: Rs. 802.0/ton	Appears to be correct.	As per AR 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 Annual return on mining machineries	"Excavator - 3 Nos. "Crusher - 1No. "Loaders - 2 No's. "Tippers - 4 No's. "Water tankers - 1 No. "Generators - 1 No.	Appears to be correct.	

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 34(1)	29/09/2022	17/04/2023				

Date :**(GANGADHAR BHAKAT)**

Indian Bureau of Mines