

**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/460 /BNG

**Mine code :** 30KAR03168

- (i) Name of the Inspecting : **S21** ) **H M Shivakumar**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr.Sudarshan .B. Mining Engineer  
Official with  
Designation
- (iv) Date of Inspection : 28/01/2022
- (v) Prev.inspection date : 04/10/2016

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **VENKATGIRI**
- (b) **Registration NO.** : **IBM/175/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BELLARY**
- Village : **VENKATGIRI**
- Taluka : **SANDUR**
- Post office : **VENKATGIRI**
- Pin Code :
- FAX No. : **08304-230644 (F), 98807651**
- E-mail : **srilakshminerals@yahoo.co**
- Phone : **08394-230644 (O), 98807651**
- (f) **Police Station** : **SANDUR**
- (g) **First opening date** : **16/08/2007**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **SRI.KAVIRAJ, NOMINATED OWNER, LAXMI MINERALS**  
**correspondance** **601, 7th Main, Balanjaneya Temple**  
**M.J.NAGAR, Hospet, Bellary -583201**
3. (a) **Lease Number** : **KAR1482**
- (b) **Lease area** : **22.26**
- (c) **Period of lease** : **30**
- (d) **Date of Expiry** : **17/06/2037**
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 : LAXMI MINERALS  
 DOOR NO 216, NEAR 100 BED  
 HOSPITAL, M.J.NAGAR, HOSPET  
 - 583 201. BELLARY  
 KARNATAKA  
 Phone:  
 FAX :

Agent : N.VENKATESH RAJU  
 # 601,BDCC Colony. M.J.  
 Nagar, 7th cross, HOSPET  
 BELLARY KARNATAKA  
 Phone:  
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	13/04/2004
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	05/07/2013
		MP review under 17(1) MCR 2016	09/11/2016
		MP modif under 17(3) MCR 2016	13/06/2018
		Modif.approved Mining Scheme	04/08/2021

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	15 Number of RC Drilling 10 Nos of Trail Pits	26 Number of RC Drilling 5 Nos of Trenches 13 core bore holes.	NIL
1b	Exploration over lease area for geological axis 1 or 2	9.78 Ha	9.78 Ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Exploration was carried out by Rock Tech Enterprises Hospet.	Rs 48 Lakhs spent on exploration.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G3 G4	-	No area left un explored.
1e	Balance reserve as on 01/04/20		23,90,000 Tonnes as on 01/04/2021.	2.39 Ha Tonnes as on 01.04.2021 as per AR submitted for year 2020-21.
1f	General remarks of inspecting officers on geology, exploration etc			No area is left un explored.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Proposed Location of production and development Pit 1 N1679186-1679069 & E65235652857 Pit 2 N1679354-1679175 & E652451-652626	Proposed Location of production and development Pit 1 N1679186- 1679069 & E65235652857 Pit 2 N1679354-1679175 & E652451-652626	Production & development carried out within the approved limits.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in OB.	Separate benches maintained in the overburden.	Pit 1 - 3 benches in OB, 5 benches in Ore. Pit 2 - 1 benches in OB, 4 benches in Ore.

2c	Stripping ratio or ore to OB ratio	1:0.14	1:1.1	
2d	Quantity of topsoil generation in m3	No proposal	No generation of topsoil.	
2e	Quantity of overburden generation in m3	7178.5	48,400 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Seperate benches are maintained in overburden & in ore in both the pits and development is carried out within the approved limits. However excess development work is done & waste is dumped in other than proposed location.

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	99793 Tons	88000Tons	
3c	Recovery of sailable/usable mineral from ROM production	95% in Iron Ore 100% in HSIO	95% in Iron Ore 100% in HSIO	
3d	Quantity of mineral reject generation	Nil	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	NIL	
3f	Quantity of sub grade mineral generation.	No proposal.	NIL	

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3g	Grade of sub grade mineral generation	No proposal.	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting are proposed in mineral benches for hard formations.	Drilling and blasting were carried out using 115 mm drill dia. Blasting is done using slurry explosive in combination with NONEL.
3k	Provision of mining machineries in mineral benches	Excavator-01, tipper-02,	Excavator-01, tipper-02,
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Suitable	Yes, Suitable
3m	Total area covered under excavation/pits	Pit 1-5.53Ha Pit 2-1.39 Ha	Pit 1-2.8 Ha Pit 2-0.5 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.14	1:1.1

3o	Total area put in use under different heads at the end of year	Area under mining-5.36 Ha, waste dump site-5.41 Ha, Mineral Storage-0.36 Ha Infrastructure Workshop Admin Building etc -0.08 Ha, Roads-1.56 Ha Green Belt/Safety Zone-1.57 Ha, Bio diversity area-2.17Ha unused-5.3 Ha	Area under mining-5.28 Ha, waste dump site-5.41 Ha, Mineral Storage-0.36 Ha Infrastructure Workshop Admin Building etc -0.08 Ha, Roads-1.56 Ha Green Belt/Safety Zone-1.57 Ha, Bio diversity area-2.17Ha Unused-5.62 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17:65955tons 2017-18:65896tons 2018-19:99988tons 2019-20 99,974 2020-21-99,895 2021-22 - 99974	2016-17:66000 tons 2017-18: 65896 tons 2018-19: 23900 tons 2019-20 :45,000 ton 2020-21 :88,000 ton 2021-22 :39000 ton As on 31.12.2021	As on 31.12.2021
3q	General remarks of inspecting officers on method of mining etc.			There is no change in method of Mining operation.However excess development work is carried out resulting change in stripping ratio.

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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)	Separate dumpfor OB is proposed	Separate dump maintained- for OB	
4b	Location of topsoil, OB and mineral reject dumps	ProposedLocati on ofdumpN1680089 toN1680067 andE651758 toE651779	DumpLocationE651710toE651735 and N1680115 toN1680093	

4c	Number of dumps within lease area and outside of lease area	WML-02 OML-0	WML-02 OML-0	01 Dump of OB and 01 BHQ dump
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are proposed outside the UPL in Non-Mineralized Zone	Dumping was carried out outside the UPL as per proposal	Dumps are on the Northern and North Eastern part of the lease area
4e	Number of active and alive dumps.	02 Dumps	02 Dumps	
4f	Number of dead dumps.	No proposal	NIL	
4g	Number of dumps established.	No proposal	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Completed	As per R & R Report
4i	Length of Retaining wall or garland drain all along dumps	Proposed Toe Wall-135 Mtr Garland Drain-130 Mtrs at bottom of HSIO stack	NIL	Since no HSIO was stacked hence retaining wall and tow walls aren't constructed
4j	Number of settling ponds	No proposal	NIL	02 Nos of settling tanks constructed in the past as per R & R
4k	Specific comments of inspecting officer on waste dump management			During the year excess development quantity is achieved from the approved quantity and dumped beyond the approved locations. Violation for the same is issued.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Proposals	Actual work	Remarks
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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.			The pits are not matured to carry out the backfilling & Mineral existence is proved at depth by exploration.

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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).	PMCP annual report for the year 2020-21 submission.	Submitted.	--
6b	Area available for rehabilitation (ha) .	NIL	NIL	--
6c	afforestation done (ha).	-	-	-
6d	No. of saplings planted during the year		3000during the year @ 60 % survival rate.	As per AR submitted 2020-21.
6e	Cumulative no .of plants		27200 including shrubs & plantation on dumps.	
6f	Any other method of rehabilitation	No proposals	NIL	



6g	Cost incurred on watch and care during the year	Rs 4.5 Lakhs	Rs 4.75 Lakhs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x 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 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 proposed in core & buffer zone.	Proposed environment monitoring carried out for Air, water, & noise on quarterly basis.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental Monitoring is carried out by SLN Testing Laboratory, Bangalore. All the parameters tested are 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	Size & Gradewise sortingpropose dwithin thelease area	Size & Grade wisewortingdonewithinthe lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanicalmeth odproposed forsorting	Mechanical methodadapted for size wiseworting	Crusher of 160 TPHand Screen of 180TPH deployed
7c	Different grade of mineral sorted out at mines.	Fines: -10mm, Calibrated Ore--+10 to -40mm and lumpy ore	Lumps: Below 55% Fe, 55 to Below 58% Fe and Fines Below 55% Fe	
7d	Any beneficiation process at mines .	No proposal	NIL	Only dry crushing & screening is done at Mines.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Mineral Conservation aspect is taken care by blending lowgrade ore with high grade ore & suitable market requirement grade ore is dispatched
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NIL	No generation of Top soil.
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 is proposed	Separate dump maintained for OB	DumpLocationE651710toE651735 and N1680115 toN1680093
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	Plantation over inactive part of dump is carried out.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1.57 ha, 3000 No of saplings proposed in the safety zone	3000 No of saplings planted within the mining lease area	--
8g	Survival rate	60-70%	60-70%	--

8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on haul roads to control airborne dust	Regular water sprinkling was done to suppress the dust	--
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the mine is pleasant.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR for Dec 21 submitted on 7/1/2022. AR for 2020-21 is submitted on 30/06/2021.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Sudarshan B Geologist- Sachin K Mine Manager- Lakshmikanth	Same officials accompanied during the inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining-5.36 Ha, waste dump site-5.41 Ha, Mineral Storage-0.36 Ha Infrastructure Workshop Admin Building etc - 0 Ha, Roads-1.56 Ha Green Belt/Safety Zone-1.57 Ha, Bio diversity area-2.17Ha unused-5.3 Ha	Appears to be correct	
9d	Scrutiny of Annual return on afforestation	WML - 3000@60 % survival. OML - NIL	Appears to be Correct.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Opening Balance - 45000 Tonnes. Production - 88000 Tonnes Closing Stock - 51600 Tonnes	Appears to be Correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Average sale value lumps Rs 1650/- per tonne, Fines Rs 600/- per tonne. ExMine price Lumps below 55% fe Rs 1000/-per tonne 55% - 58% Rs 1600/- per tonne 58% - 60 % Rs 2500/- per tonne Fines below 55% fe Rs 700/-per tonne 55% - 58% Rs 1300/- per tonne 58% - 60 % Rs 1600/- per tonne Cost of Production Rs 499 per tonnes.	Appears to be Correct.
9h	Scrutiny of Annual return on fixed assets	Rs 3,02,10,833/- including plant, machinery & transport equipment.	Appears to be Correct.
9k	Scrutiny of Annual return on mining machineries	Excavator - 01 Tipper - 06 Loader - 02 Drill - 01 Crusher - 01 160 TPH Compressor - 01	Appears to be Correct.

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**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)	22/02/2022	03/05/2022			

**Date :****(H M Shivakumar)**

Indian Bureau of Mines