

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/460 /BNG

Mine code : 30KAR03168

- (i) Name of the Inspecting : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri R. Sathyanarayana, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 16/01/2020
- (v) Prev.inspection date : 12/10/2018

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 correspondance** : **SRI.KAVIRAJ, NOMINATED OWNER, LAXMI MINERALS**
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	:	MP review under 17(1) MCR 2016	09/11/2016
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	13/06/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	Nil	-
1b	Exploration over lease area for geological axis 1 or 2	No Proposals	nil	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals	nil	-
1e	Balance reserve as on 01/04/20	The mineral reserves are 1.53 million tonnes as on 1.04.2018 as per the last approved modified RMP. No Exploration was proposed for the year 2018-19 .	The mineral reserves reported as 251522 tons in AR 2018-19 which is not correct. Only the production quantity of 23900 tons for the year 2018-19 should be deducted from the proved mineral reserves(111) category.	The Violation has been pointed out.
1f	General remarks of inspecting officers on geology, exploration etc			There is no specific remarks on geology & Exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NW-SE(Strike direction), NE-SW(widening)	As proposed	Developments are between section BB'-II'

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Reef ore-3 benches, 7 m height & 8 m width, working area-2.63 ha, Float ore- 1 bench, working area-0.32 ha, 3 m bench height.	Reef ore- 3 benches, 7 m height. No working in Float ore.	—
2c	Stripping ratio or ore to OB ratio	1:0.83	1:0.77	23,900 tons of ROM production and 18359 tons of waste.
2d	Quantity of topsoil generation in m3	Nil	Nil	—
2e	Quantity of overburden generation in m3	17023 m3	9179 m3	—
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mining operations are carried out as per the approved proposals.

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	99988 tons	23900 tons	The violation for less production has been pointed out.
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	—

3d	Quantity of mineral reject generation	54628 tons	0 tons as reported in AR-2018-19	Mineral Reject quantity is incorrectly reported as 0 tons. The quantity of generated BHQ(siliceous ore) that is stacked seperately in BHQ/SG dump for the year 2018-19 is to be reported. The Violation has been pointed out.
3e	Grade of mineral rejects generation and threshold value declared.	Threshold Value + 35 % Fe	As per proposal.	—
3f	Quantity of sub grade mineral generation.	Nil	Nil	No generation of subgrade
3g	Grade of sub grade mineral generation	Nil	Nil	—
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	—
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	Yes	Yes	—
3k	Provision of mining machineries in mineral benches	Yes	Yes	—
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	—
3m	Total area covered under excavation/pits	2.63 ha	As per proposal	—

3n	Ore to OB ratio for the pit/mine during the year.	1:0.83	1:0.77	—
3o	Total area put in use under different heads at the end of year	Total 3.94 ha, 2.63 ha mine working area, 0.61 ha for dumping(shale), 0.42 ha for dumping(BHQ)	1.12 ha for mine working, 0.025 ha for dumping(including shale & BHQ)	—
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 66000 tons 2015-16: 65942 tons 2016-17:65955 tons 2017-18:65896 tons 2018-19: 99988 tons	2014-15: 66000 tons 2015-16: 66000 tons 2016-17:66000 tons 2017-18: 65896 tons 2018-19: 23900 tons	The Violation has been pointed out for less production for the year 2018-19
3q	General remarks of inspecting officers on method of mining etc.			There is no change in the method of mining operations and are as per the proposal. Less production of ROM for the year 2018-19.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	—
4b	Location of topsoil, OB and mineral reject dumps	OB-Northeastern side, Mineral reject-North part of the lease	OB-Northeastern side, Mineral reject-North part of the lease	—
4c	Number of dumps within lease area and outside of lease area	Within Lease-02 Outside Lease-nil	Within Lease-02 Outside Lease-nil	—
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside	Outside	—
4e	Number of active and alive dumps.	02	02	—

4f	Number of dead dumps.	1	1	Dead dump-D3
4g	Number of dumps established.	nil	nil	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed(135 m Retaining wall & 140 m garland drain)	Construction of Retaining wall & garland drain started(70 m retaining wall & 70 m garland drain)	-
4i	Length of Retaining wall or garland drain all along dumps	135 m Retaining wall & 140 m garland drain	70 m retaining wall & 70 m garland drain constructed.	-
4j	Number of settling ponds	02	02	-
4k	Specific comments of inspecting officer on waste dump management			No Specific comments

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 Proposals	Nil	-
5b	Area under backfilling of mined out area	No Proposals	Nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposals	nil	-
5d	Total area fully reclaimed and rehabilitated	No Proposals	Nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			There are no proposals for backfilling

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 2018-19 submission	Not submitted	The Violation has been pointed out
6b	Area available for rehabilitation (ha) .	Nil	Nil	—
6c	afforestation done (ha).	0.28 ha	As per proposal	—
6d	No. of saplings planted during the year	280 trees/700 shrubs	As per proposal	—
6e	Cumulative no .of plants	280 trees/700 shrubs	As per proposal	—
6f	Any other method of rehabilitation	No proposals	nil	—
6g	Cost incurred on watch and care during the year	No Proposals	Nil	—
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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 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)	As proposed	As per proposal	—
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No specific remarks in PMCP.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting within the lease area	Sorting within the lease area	—
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	—
7c	Different grade of mineral sorted out at mines.	As per proposal	As per proposal	—

7d	Any beneficiation process at mines	Nil	Nil	Only sorting & sizing carried out
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The necessary measures are being taken in view of mineral conservation at mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals	nil	—
8b	Concurrent use or storage of topsoil	No proposals	nil	—
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Provided as per proposal	—
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals	nil	—
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals	nil	—
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Additional plant proposed 280 trees/700 shrubs	As per proposal.	—
8g	Survival rate	80%	60%	—

8h	Water sprinkling on roads to control airborne dust	Proposed	Provided	—
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the mine periphery looks pleasant and good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted up to Dec-19. AR. submitted up to 2018-19	MR submitted up to Dec-19. AR. submitted up to 2018-19	—
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist information not given in Ar 2018-19	Mining Engineer and Geologist information not given.	No appointment of Mining Engineer and Geologist done. The violation has been pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The information has been given	Provided	—
9d	Scrutiny of Annual return on afforestation	Given 3000 trees planted inside lease area with 60 % survival rate	Provided	—
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	In AR 2018-19 the mineral reject quantity is mentioned as 0 tons.	The quantity mentioned is incorrect.	Mineral reject quantity is incorrectly reported as 0 tonnes. The quantity of generated BHQ(siliceous ore) that is stacked seperately in BHQ/SG dump for the year 2018-19 is to be reported here.The violation is pointed out.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	Provided	—

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Royalty, DMF & NMET cost is not included in cost of production. Also in Part-III(2) Royalty cost is not reported in AR 2018-19	The violation is pointed out
9h	Scrutiny of Annual return on fixed assets	Details given	Provided	—
9k	Scrutiny of Annual return on mining machineries	Details furnished	Provided	—

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)	23/01/2020				
MCDR17 Rule 26(2)	23/01/2020				
MCDR17 Rule 29	23/01/2020				
Rule 45(1)(c)	23/01/2020				
MCDR17 Rule 55(1)(3)	23/01/2020				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines