

I/29513/2024

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 : 21/03/2024
- (v) Prev.inspection date : 16/09/2022

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~~ 34.14 Ha
- (c) Period of lease : ~~20~~ 50 Years up to 17/04/2057
- (d) Date of Expiry : ~~17/04/2027~~ 17/04/2057
4. Mineral worked : IRON ORE Main

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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	:	Mining Scheme rule 12 MCDR1988	11/07/2014
Plan/Scheme of Mining	:	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

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil.	NA	
1b	Exploration over lease area for geological axis 1 or 2	Proposed 65 No's of trial pits.	Nil.	Violation pointed out under rule 11(1) of MCDR, 2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal.	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	Area under G1 :26.54 Ha G2 : 7.60 Ha	Non-mineralized area 0.37 Ha
1e	Balance reserve as on 01/04/20	1.625 MMT	1.644MMT	Average grade 56% Fe.
1f	General remarks of inspecting officers on geology, exploration etc			There is no exploration carried out against the proposal of 65 No's of Trail pit having dimension of 3m(L) X 2m(W) X 4m(D). Hence, violation pointed out under rule 11(1) of MCDR, 2017

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed 2 locations during the year 2022-23 South Block: Sec A-A' North Block: Sec F-F'	Carried out within the proposed location.	Mine was working only 173 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.

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2c	Stripping ratio or ore to OB ratio	1:0.22	1:0.22	Ore:71000 Tons OB:15720 Tons
2d	Quantity of topsoil generation in m3	No proposal.	Nil.	
2e	Quantity of overburden generation in m3	9975Cu.m	7860Cu.m	Mine was operated only for 173 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 (South and North Block)	02(South and North Block)	
3b	Quantity of ROM mineral production proposed	89775 Tons	71000 Tons	Mine was working only 173 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.	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	

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3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for segregating of mineral from ROM.	Mechanized method adopted for segregating of mineral from ROM	
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-01No, Tipper- 6Nos, Front end loader-2No's, Mobile screen-1No, Back Hoe- 1No.	
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 3m to maximum 5m	Yes.	
3m	Total area covered under excavation/pits	8.06 Ha	7.0 Ha	Working under broken area.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.22	1:0.22	Ore:71000 Tons OB:15720 Tons
3o	Total area put in use under different heads at the end of year	Working- 8.046Ha Waste dump- 0.10Ha, Roads- 2.5Ha Plant &Mineral storage-1.56Ha Others-6.6Ha	Working-7.0Ha Waste dump-0.10Ha, Infrastructure- 0.06Ha Others-12.5Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 90000t 2019-20 - 90000t 2020-21 - 90000t 2021-22 - 90000t 2022-23 - 89998t (In tons)	2018-19 - 0 2019-20 - 0 2020-21 - 0 2021-22 - 44000t 2022-23 - 71000t (In tons)	Mine was working only 173 days during the year due to requirement of approach road clearances from forest Dept.

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3q	General remarks of inspecting officers on method of mining etc.	Mine was working only 173 days during the year 2022-23 due to requirement of approach road clearances from forest Dept.
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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)	Concurrent backfilling proposed.	No mineral reject generated during the year 2022-23, However total 7860 Cubic Meter generated waste used for concurrent backfilling.	
4b	Location of topsoil, OB and mineral reject dumps	No proposal.	Nil.	Concurrent backfilling proposed.
4c	Number of dumps within lease area and outside of lease area	No proposal of dumping. Only concurrent backfilling is proposed.	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.	Nil.	Two nos. of inactive dump present at northern part of the lease area.	
4f	Number of dead dumps.	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.	Yes.	Carried out as per proposed location.	
4i	Length of Retaining wall or garland drain all along dumps	Proposed length of Retaining wall-125m & Garland drain-135m	Carried out Retaining wall-125m Garland drain- 15m	Violation pointed out under rule 11(1) of MCDR, 2017.

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4j	Number of settling ponds	No Proposal.	Nil.	
4k	Specific comments of inspecting officer on waste dump management			No mineral reject generated during the year 2022-23, However total 7860 Cubic Meter generated waste used for concurrent backfilling.

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.	Concurrent backfilling proposed after extraction of float ore.	Carried out as per proposal.	-
5b	Area under backfilling of mined out area	1.047 Ha	0.57 Ha	As reported in annual PMCP report FY 2022-23.
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	1.047 Ha	0.57 Ha	During the plan period.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Concurrent backfilling carried out after extraction of float ore as per proposal.

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.	Annual PMCP report submitted on 06/07/2023.	-

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6b	Area available for rehabilitation (ha) .	No proposal.	Nil.	
6c	afforestation done (ha).	0.24 Ha	0.24 ha	Plantation carried out by lessee at safety zone.
6d	No. of saplings planted during the year	WML 600 No's proposed.	Carried out 600 No's WML.	
6e	Cumulative no .of plants	WML 600 No's proposed.	Carried out 600 No's of plantation WML.	Survival Rate 80%
6f	Any other method of rehabilitation	No proposal.	Nil.	
6g	Cost incurred on watch and care during the year	No proposal.	Nil.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.047 Ha	0.57 Ha	Concurrent backfilling 7860Cu.m
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	

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6m	Compliance of rehabilitation of waste land within lease (i)afforestation	WML 600 No's proposed.	Carried out 600 No's WML.	Plantation carried out by the lessee at safety zone.
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 permissible 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
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed within the lease area	Dry screening for size separation is being practiced at mine site.	The Grade /size wise sorting of ROM is done.
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.

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7c	Different grade of mineral sorted out at mines.	45 to 51% Fe +51 to 55% Fe +58 to 60% Fe +60 to 62% Fe	45to51%- 91458.94t 51to55%- 23000t 55to58%-6734.65t 58to 60% -2000t 60to62%-Nil (dispatched).	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.	Carried out as per proposal.	7860Cu.m backfilled during the year 2022-23.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Concurrent back filling & simultaneous plantation.	Carried out as per proposal.	

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	WML 600 No's proposed.	Carried out 600 No's of plantation WML.	During the plan period. Survival Rate 80%
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul road proposed.	Regular water sprinkling is being carried out on the haulage roads to suppress airborne dust.	Capacity of water tanker 8000Ltr.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around 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 February 2024 A.R submitted up to Year 2022-23	M.R. submitted for the month of February 2024 on 09/03/2024 and A.R submitted for the year 2022-23 on 30/06/2023.
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 2022-23.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Working-7.0Ha Waste dump- 0.10Ha, Infrastructure - 0.06Ha Others-12.5Ha.	Appear to be correct.	As per AR FY 2022-23.
9d	Scrutiny of Annual return on afforestation	WML: 600, OML: Nil & survival rate: 80%	Appear to be correct.	-

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil.	Appear to be correct.	No mineral reject generation as per AR FY 2022-23.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock of ROM: 6000Tons ROM Production: Tons. 71000 Tons. Closing Stock of ROM: 34000 Tons. Grade wise production:- Lumps: Below 55% 35000 Tons, 58% to below 60% 2000 Tons. 60% to below 62% 6000 Tons. Fines: Nil.	Appear to be correct.	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Lumps: Ex. Mine price 55 to 58% Rs. 3000.0 /ton 60to 62% Rs. 4500.0 /ton Fines Ex. Mine price 51 to 55% Rs. 1150.0 /ton production cost: Rs. 1720.0/ton	As per Ex-mine price reported in Annual Return submitted for the year 2022-23 for fines having slabs 51% to below 55% Fe has not been tally with the per ton of sale value of the same slab.	Violation pointed out under rule 45(7) of MCDR, 2017.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 60097480 /-	Appear to be correct.	-
9k	Scrutiny of Annual return on mining machineries	Excavator- 01No, Tipper- 6Nos, Front end loader-2No's, Mobile screen- 1No, Back Hoe- 1No.	Appear to be correct.	-

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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)	10/04/2024		MCDR17 Rule 45(7)	10/04/2024	
MCDR17 Rule 45(7) (a)	10/04/2024				

Date :**(GANGADHAR BHAKAT)**

Indian Bureau of Mines