INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No : AP/KNL/FE-72/HYD Mine code: 30APR11039

) SHRI IBRAHIM SARIF Name of the Inspecting: 25

Officer and ID No.

: Sr. Asst. Contrl. Mines (ii) Designation

(iii) Accompaning mine : Sri Prabhakar reddy, QP, Sri Ramamurthy, Mines Manage

Official with Designation

(iv) Date of Inspection : 08-DEC-20

(v)Prev.inspection date

PART-I : GENERAL INFORMATION

Mine Name 1. (a) : RANGAPURAM(12.481 HA)

(b) Registration NO. :

: B Manual (C) Category (d) Type of Working : Opencast

Postal address (e)

> : ANDHRA PRADESH State

District : KURNOOL

Village : BETHAMCHERLA Taluka : GANDHINAGAR Post office BANGALORE : Pin Code : 560009

FAX No. E-mail

Phone : 08516273988

(f) Police Station : BETHAMCHERAL

: 03-OCT-06 (g) First opening date

(h) Weekly day of rest : SUN

Address for : FLAT NO: 13, PAMIDI TOWERS, 2. correspondance

FIRST MAIN, GANDHI NAGAR

BANGALORE.

3. (a) Lease Number : APR2752 (b) Lease area : 12.48

(C) Period of lease : 20

(d) Date of Expiry : 07-SEP-26

4. Mineral worked : IRON ORE Main 5. Name and Address of the

Lessee : M/S LEO MINIG CO

FLAT NO;13,PAMIDI TOWERS, FIRST MAIN, GSNDHI NAGAR,

BANGALORE. BANGALORE

KARNATAKA
Phone:
FAX :

Owner : M/S LEO MINING CO

FLAT NO:13, PAMIDI TOWERS, FIRST MAIN, GANDHI NAGAR, BANGALORE. KURNOOL ANDHRA

PRADESH
Phone:
FAX:

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 27-JAN-12 Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 13-JAN-17

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	6 boreholes of previous years are pending.	Not done	Mine was suspended for non compliance of violation on.20.10.2020
1b	Exploration over lease area for geological axis 1 or 2	As per current level of exploration 4.71 hectare is under G2 level of exploration and 9.771 hectare is under G3 level of exploration. Proposal was there to upgrade the exploration in 2016-17 and 2017-18.	No exploration is undertaken as per proposal.	
1d	Balance area to be explored to bring Geological axis in 1 or 2		7.771 Hectare of area under G3 is to be upgraded. As per rule 12(4) entire lease is to be brought under G1 level of exploration	e

le Balance reserve as on 01/04/20

Total Mineral Reserves (ROM) as on 4/2/2016 122- 0.4157 Total Mineral Reserves (ROM) as on 1/04/2019

122- 0.28627 mT

mT Depletion of reserves 4/12/2016-31/03/2017=52

ОТ 2017-18-

0.038mT (6040

T I Ore, 32500 T waste) 2018-19-0.072mT (25210 T I.Ore

,40348T waste) 2019-20-0.02630mT

1f General remarks of inspecting officers on geology, exploration etc

The iron ore deposition is of Vempalli formation. The iron ore enrichment is largely concentrated in the ferrugenous pockets along with shale, sandstone. Vi0olations pointed out earlier are pending.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1 -1	Work has been found to be undertaken to the west of mine office and in front of it in the year 2019-20 and up to suspension of mining operation.	Mine was suspended by IBM on 22.10.2020

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal	The pit is in the mineralized zone, largely devoid of top soil of OB	
2c	Stripping ratio or ore to OB ratio	In 2019-20, Ore: waste ratio of 1:1.022 was anticipated (cum:cu m)	In 2019-20, Ore : waste ratio of 1:6.15 was produced (cum:cu m)	12076 T of material backfilled and 4100 T of material reported to be disposed in the external dump i.e, about 16176 T of waste has been generated in 2019- 20. Against which 2630 T of Iron Ore was produced.
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	No OB generation anticipated	No OB generated	However, about 16,176 T of intercalated waste is reportedly generated. which has been partly backfilled and partly put in the new dump.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Presently the mine is under suspension since 22.10.2020 and no fresh development was observed during inspection.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	In 2019-20, the pit was proposed in the north eastern part of lease	One new pit of about 1100m and width 50m is seen in the field.	Mine was suspended under rule 11(2) of MCDR 2017 for deviation in excavation.

Mining is being

mineralised area

excavation is ROM only. 2630 T of salable Iron Ore was produced and

intercalated waste

carried out in

and total

16706 T of

removed.

66,667(2019-In 2019-20 2632 T of 3b Quantity of ROM 20): (30,000 T Iron Ore has been mineral production of Ore & 36667 produced. No Production proposed reported during the year Intercalated 2020-21 as per the waste) monthly returns submitted. About 14% reported in 3с Recovery of 50% recovery the year 2019-20. sailable/usable assessed for mineral from ROM the year 2019production 20 . 3d Quantity of No proposal Nil mineral reject generation Grade of mineral Not Applicable Not Applicable rejects generation and threshold value declared. 3f Quantity of sub No proposal Nil grade mineral generation. Grade of sub Not Applicable Not Applicable 3q grade mineral generation 3h Manual / Mechanised No segregation was Mechanised observed in the lease Screening is proposed to be area. method adopted for segregating carried out from ROM 3i Any analysis or No Proposal No such study beneficiation undertaken. study proposed and carried out for sub grade mineral and rejects. 3j Provision of No drilling Νil drilling and and blasting blasting in proposed

mineral benches

3k Provision of mining machineries in mineral benches proposed.

Excavatortipper combination is inspection.

No mining activity observed on the date of

Total area covered under excavation/pits pit till 2020- could not be

4.54 hectare 21.

Plans and sections were proposed under not updated and same

ascertained, However as per lessee's submission in Star rating, area under mining is less than the proposed areaa of 4.54 Ha.

3n Ore to OB ratio In 2019-20, for the pit/mine Ore : waste during the year. ratio of

1:1.022 was anticipated (cum:cu m)

In 2019-20, Ore : waste ratio of 1: 6.15 was produced (cum:cu m)

12076T of waste was backfilled and 4100 T of waste reported to be disposed in the external dump i.e, about 16176 T of waste has been generated in 2019-20 against which 2630 T of Iron Ore produced.

30 Total area put in use under different heads Under pit 4.54 at the end of year

Proposed till Broadly as per 2020-21

ha. Under dump-0.81 ha Mineral

storage -0.35

Road/Infra -0.46 ha.

Production of 3p ROM mineral during the last five year period as applicable

submission.

2017-18- ROM=38540T (6040 T Iron Ore, 32500 T waste)

2018-19(upto feb20) -ROM- 65558T (25210 T Iron Ore ,40348T waste)

2019-20 : ROM 18,806,

Ore: 2630 T,

Intercalated waste:

16176 Т

3q General remarks
 of inspecting
 officers on
 method of mining
 etc.

No mining activity were observed during inspection, however mining ioperations were reported to be carried out earlier using Excavator in combination with tipper.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping proposed	Separate dumps of waste are there	
4b	Location of topsoil, OB and mineral reject dumps	Backfilling proposed	No mining operations were observed in the field. However, backfilling was done at a different site. Existing waste dump is located at E-185808 to 185910, N- 1710041 to 1710150	
4c	Number of dumps within lease area and outside of lease area	one dump within lease area	Two major waste dumps and few small dumps/ stack are there.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Backfilling of waste was proposed in the year 2019-20.	Dump was created on the excavation site and some portion of pit was backfilled.	
4 e	Number of active and alive dumps.		No active dumps are there as mine was suspended , however two major waste dumps and few small dumps/ stack are there.	
4f	Number of dead dumps.		None of the dump is dead dump	
4g	Number of dumps established.	No proposal	No dump has been estabilized.	

4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil
4ј	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management		Intercalated waste generated is being used partially for backfilling and external dump. Maximum dump height is about 4.5 meters height. SO far no dump is stabalised in the lease area.

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.	Area to be backfilled to be devoid of mineral.	The status of full extraction could not be ascertained as plans were not maintained updated and has to be established by the lessee.	No mining activity observed in the lease area.
5b	Area under backfilling of mined out area	Backfilling proposed at the proposed excavation site in the north east part of lease	Not undertaken accordingly	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Not undertaken	
5d	Total area fully reclaimed and rehabilitated	No proposal	No area has been fully reclaimed and rehabilitated. In the past about 1.0 hectare area was backfilled.	

5e General remarks of inspecting officers on backfilling and reclamation etc.

No mining activity observed in the lease arae on the date of inspection, however backfilling is not being done as per proposal made in the approved document.

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).	To be submitted yearly	Not Submitted	MIne was suspended by IBM on 22.10.2020
6b	Area available for rehabilitation (ha).	No proposal for rehab. of worked out benches	Nil	
6c	afforestation done (ha).	No proposal for rehab. of worked out benches	Nil	
6d	No. of saplings planted during the year	No proposal for rehab. of worked out benches	Nil	
6e	Cumulative no .of plants	No proposal for rehab. of worked out benches	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Rehabilitation by back filling is not proposed	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Rehabilitation by back filling proposed	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area		
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
бр	Compliance of environmental monitoring (core zone and buffer zone)		Being done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Environment monitoring is being carried out

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		1333 T of graded ore of less than 55% Fe dispatched.	

7b	Method of grade- wise mineral sorting i.e. manual or mechanical.		Mechanized screening (mobile) is reportedly done when required
7c	Different grade of mineral sorted out at mines.	Lumps and fines generation proposed	Only lumps and fines are segregated.
7d	Any beneficiation process at mines .		Only screening is done.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Only Screening is being carried out to segregate Lumps and Fines

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Area is largely devoid of top soil	
8b	Concurrent use or storage of topsoil	No proposal	Area is largely devoid of top soil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed for	Separate dump of intercalated waste has been observed	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Not undertaken	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 saplings planted in 2019-20
8g	Survival rate	35%
8h	Water sprinkling on roads to control airborne dust	Water tanker provided
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is being carried out by the lessee to improve the aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Submitted regularly.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager SUDHAKAR M Mining Engineer in charge K PRABHAKARA REDDY Geologist in charge S MOHAN KUMAR	Manager SUDHAKAR M Mining Engineer in charge K PRABHAKARA REDDY Geologist in charge S MOHAN KUMAR	

9с Covered under Land use details are Scrutiny of Mine was suspended Annual return on current (O/C) reported incorrectly. by IBM on land use pattern : 0, 22.10.2020 for area under Reclaimed/Reha pits, reclaimed bilitated : area, dumps etc. 0.22 Ha, Used for waste disposal : 0.37 Ha, Occupied by plant, buildings, residential, welfare buildings & roads : 0.10 Ha, Work done under progressive mine closure plan during the year : 0.48 Ha WorkingsArea under pit, has not been reported correctly. 9d Scrutiny of 100 saplings As per submission Annual return on reportedly afforestation planted in 2018-19 Nil 9e Scrutiny of NilAnnual return on mineral reject generation (Grade and quantity) 9f Scrutiny of 8805 MT of As submitted in the Annual return on Iron ore lumps returns ROM stock and/or of less than graded ore 55% Fe reported 8868 MT of Iron ore Fines of less than 55% Fe

reported

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine price of Iron Ore lumps is reported as 600 Rs PMT (<55% Fe)and fines is reported as 400 Rs PMT(<55% Fe). COP:
9h	Scrutiny of data not Annual return on submitted fixed assets	Rs. 480/ MT
9k	Scrutiny of Incorrectly Annual return on reported mining machineries	No excavator has been reported in the returns for the year 2019-20.

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Details of violations observed during current violation pointed out	t inspection and compliance position of	
Violation observed	Show couse position	

Date: (SHRI IBRAHIM SARIF)

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