

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

**MCDR INSPECTION REPORT
Hyderabad regional office**

Mine file No : AP/KNL/FE-72/HYD

Mine code : 30APR11039

- (i) Name of the Inspecting : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : SHRI J. BASKAR, FOREMAN
Official with
Designation
- (iv) Date of Inspection : 10/12/2015
- (v) Prev.inspection date : 20/07/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RANGAPURAM(12.481 HA)**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : KURNOOL
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. :
- E-mail :
- Phone : 08516273988
- (f) **Police Station** : BETHAMCHERAL
- (g) **First opening date** : 03/10/2006
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : FLAT NO: 13, PAMIDI TOWERS,
FIRST MAIN, GANDHI NAGAR
BANGALORE.
3. (a) **Lease Number** : APR2752
- (b) **Lease area** : 12.48
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 07/09/2026
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 27/01/2012
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	NIL	
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	16 trial pits	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Lessee Rs.2,10,000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	_____	133,518 (111) 77,543 (122) 37,476 (222)	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	Total lease area has been explored.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E186039 to E186158 N 1710035 to N 1710246	North East E186039 to E186158 N 1710035 to N 1710246	Development work is in the proposed area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:0.31	1:0.30	
2d	Quantity of topsoil generation in m3	No top soil	NIL	
2e	Quantity of overburden generation in m3	NIL	NIL	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development of pit is in the same place as proposed.
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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	34420 tonnes	17970 tonnes	Less production due to less market demand.
3c	Recovery of sailable/usable mineral from ROM production	31107 tonnes	17970 tonnes	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	N.A	N.A	
3f	Quantity of sub grade mineral generation.	3313 tonnes		
3g	Grade of sub grade mineral generation	Fe-<45>30% Si O2-<10.2>9.2%	Fe-<45>30% Si O2-<10.2>9.2%	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	AOTFM using Excavator, tractor, tipper, water tanker etc.,	Violation of rule 13(1) was pointed out to the party.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	NIL	Manual sorting and screening is being practiced to improve the grade.
3j	Provision of drilling and blasting in mineral benches	No Proposal	NIL	

3k	Provision of mining machineries in mineral benches	No Proposal	Excavator is being used .	
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	5.7 ha	0.68 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.31	1:0.31	
3o	Total area put in use under different heads at the end of year	9.12 ha	3.28 ha	
3p	Production of ROM mineral during the last five year period as applicable	2010-11--1497 t , 2011-12--30038 t, 2012-13--33953 t, 2013-14---34020 t, 2014-15---34420 t	2010-11--18740 t , 2011-12--17070 t, 2012-13--13330 t, 2013-14---17060 t, 2014-15--- 17970 t	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	Against the proposal of manual method of mining , the mining operations are being carried out by deploying machinery. Hence violation of rule 13(1) was pointed out to the party.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	NIL	Waste generated is being used for back filling.
4b	Location of topsoil, OB and mineral reject dumps	No Proposal	NIL	Waste generated is being used for back filling.

4c	Number of dumps within lease area and outside of lease area	No Proposal	NIL	Waste generated is being used for back filling.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Applicable	Not Applicable	Waste generated is being used for back filling.
4e	Number of active and alive dumps.	Not Applicable	Not Applicable	Waste generated is being used for back filling.
4f	Number of dead dumps.	Not Applicable	Not Applicable	Waste generated is being used for back filling.
4g	Number of dumps established.	Not Applicable	Not Applicable	Waste generated is being used for back filling.
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Applicable	Not Applicable	Waste generated is being used for back filling.
4i	Length of Retaining wall or garland drain all along dumps	Not Applicable	Not Applicable	Waste generated is being used for back filling.
4j	Number of settling ponds	Not Applicable	Not Applicable	Waste generated is being used for back filling.
4k	Specific comments of inspecting officer on waste dump management	_____	_____	No waste dumps are being maintained as the waste is being utilised for back filling.

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.	Part extraction of mineral from the pit.	Part extraction of mineral from the pit.	Back filling is taken up partially.
5b	Area under backfilling of mined out area	0.54 ha	0.9 ha	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Applicable	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	Not Applicable	Not Applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	_____	Part of the area is back filled by utilising the waste .

Progressive Mine Closure Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	_____	No	Violation of rule 23 E(2) was pointed out to the party.
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	0.20 ha	_____	
6d	No. of saplings planted during the year	500	200	
6e	Cumulative no .of plants	2000	1000	
6f	Any other method of rehabilitation	_____	_____	
6g	Cost incurred on watch and care during the year	Rs.50,000/-	N.A	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Applicable	Not Applicable	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Applicable	Not Applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Not Applicable	Not Applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Applicable	Not Applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Applicable	Not Applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not Applicable	Not Applicable
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not Applicable	Not Applicable
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Applicable	Not Applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	NIL	NIL

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	The pits will be back filled and reclaimed by afforestation after complete extraction of the ore.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed Production- 34420 tonnes	Total ROM Production is 19530 tonnes.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting	Manual sorting and screening is being practiced to improve the grade.	
7c	Different grade of mineral sorted out at mines.	N.A	N.A	
7d	Any beneficiation process at mines .	No Proposal	Manual sorting and screening is being practiced to improve the grade.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Manual sorting and screening is being practiced to improve the grade.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	There is no top soil since the float ore is available on the surface.	
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	NIL	The waste is being utilised for concurrent back filling.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste rock for back filling.	The waste is being utilised for concurrent back filling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	reclamation by concurrent back filling.	Pit is being back filled with waste after extraction of the ore.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 plants per year	200 plants planted during last year . Cumulative plantation is 1000	
8g	Survival rate	_____	80%	
8h	Water sprinkling on roads to control airborne dust	_____	water sprinkling is being done to control airborne dust during vehicle movement.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	Nothing to highlight about aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	_____	The lessee is submitting monthly and annual returns regularly	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Sri. K. prabhakar Reddy, Geologist- Sri. S. Mohan kumar Manager- Sri. V.Rama Murthy	Mining Engineer- Sri. K. prabhakar Reddy, Geologist- Sri. S. Mohan kumar Manager- Sri. V.Rama Murthy
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	_____	Area covered under pits- 0.68 ha
9d	Scrutiny of Annual return on afforestation	NIL	NIL
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	Total ROM Production- 19530 tonnes	Total ROM Production- 19530 tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine Price-Rs.900/- , Cost of Production- Rs.310/-	Ex. Mine Price-Rs.900/-, Cost of Production- Rs.310/-
9h	Scrutiny of Annual return on fixed assets	NIL	NIL
9k	Scrutiny of Annual return on mining machineries	NIL	NIL

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
Rule 13(1)	18/02/2016				
Rule 23E(2)	18/02/2016	01/08/2016			

Date :
(Ch.Suseela)

Indian Bureau of Mines