

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/VZNR/MN-106/HYD

Mine code : 40APR20054

- (i) Name of the Inspecting : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri. S.K.Mishra, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 21/10/2016
- (v) Prev.inspection date : 19/04/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GARBHAM**
- (b) **Registration NO.** : **IBM/8741/2012**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : ANDHRA PRADESH
District : VIZIANAGARAM
Village : GARBHAM
Taluka : MEREKAMUDIDAM
Post office : GARBHAM
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station : BUDARAYAVALLASA
- (g) First opening date : 15/07/1997
- (h) Weekly day of rest : SUN
2. Address for : M/S MAHALAKSHMI MINERALS,
correspondance : VILL:GARBHAM,
DIST:VIZIAYANAGARAM.
3. (a) Lease Number : APR1121
- (b) Lease area : 10.52
- (c) Period of lease : 20
- (d) Date of Expiry : 15/07/2017
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S MAHALAKSHMI MINIERALS
SRI SASIDHAR RADDY,
VILL:GARBHAM
MANDAL:MERAKAMUDDIM,DI:VZNR
VIZIANAGARAM ANDHRA PRADESH
Phone:
FAX :

Owner : SASIDHAR REDDY
VILL:GARBHAM
MANDAL:MERAKAMUDIDAM,
DIST:VZNR VIZIANAGARAM
ANDHRA PRADESH
Phone:
FAX :

Manager

Name : S.K.MISHRA
Qualification : B.TECH,MINING A.I.S.M.
Appointment/ :
Termination date

6. Date of approval of Mining : Modif.approved Mining Scheme 29/05/2015
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	None	
1b	Exploration over lease area for geological axis 1 or 2	9 CBH	Not Done	
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	7.02 ha	7.02 ha	
1e	Balance reserve as on 01/04/20	369457 tonnes	369457 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	Lessee has not carried out the exploration as proposed. Hence Violation of Rule 13(1) has been pointed out to the party.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	RL 119 to 116 Sec. A-A', B-B', C-C', D-D', E-E'	RL 119 to 116 Sec. A-A', B-B', C-C', D-D', E-E'	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, 3m ht and 4.5m width in Ore & OB	Yes, 3m ht and 4.5m width in Ore & OB	
2c	Stripping ratio or ore to OB ratio	7:1	5:1	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	1914 cu.m	2150 cu.m	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development work is being carried out as per the proposals.
----	---	--	--	---

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	46417 tonnes	16810 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	70%	62%	
3d	Quantity of mineral reject generation	4006 cu.m	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	< 10% Mn	NIL	
3f	Quantity of sub grade mineral generation.	NIL	NIL	No sub grade mineral is being generated.
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
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	NIL	NIL	

3k	Provision of mining machineries in mineral benches	Shovel with 0.9 cu.m-1 No., Tippers-2 Nos	Shovel with 0.9 cu.m-1 No., Tippers-2 Nos	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes, 3m ht & 3m wd	yes, 3m ht & 3m wd	
3m	Total area covered under excavation/pits	2.477 ha	3.5 ha	
3n	Ore to OB ratio for the pit/mine during the year.	7:1	5:1	
3o	Total area put in use under different heads at the end of year	6.668 ha	8.355 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12-NIL, 2012-13-NIL, 2013-14-4565 t, 2014-15-4354 t, 2015-16-24301 t	2011-12-18768 t, 2012-13-8472 t, 2013-14-4592 t, 2014-15-5138 t, 2015-16-16810 t	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	The mining operations are being carried out under A OTFM category as proposed.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes, waste dump	yes, waste dump	
4b	Location of topsoil, OB and mineral reject dumps	South side of main pit	South side of main pit	
4c	Number of dumps within lease area and outside of lease area	Within ML	Within ML	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Southern side of main pit	Southern side of main pit	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	0	0	
4g	Number of dumps established.	0	0	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Garland drain provided	
4i	Length of Retaining wall or garland drain all along dumps	48m	48m	
4j	Number of settling ponds	0	0	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	Waste dump is placed in the designated area as proposed.

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.	NIL	NIL	
5b	Area under backfilling of mined out area	0	0	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	Pit not matured for backfilling.

5e	General remarks of inspecting officers on backfilling and reclamation etc.			Pit not matured 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).	Yes	No	Violation of Rule 23E(2) has been pointed out to the party.
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	Not Applicable	Not Applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	NIL	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NIL	NIL	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	150 plants	NIL	violation of Rule 13(1) has been pointed out to the party.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NIL	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	The progressive mining operations are being carried out as per the approved proposals.

 Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area 25% Mn to 35% Mn	Grade wise sorting within lease area 25% Mn to 35% Mn	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	25% Mn to 35% Mn	25% Mn to 35% Mn	
7d	Any beneficiation process at mines	Hand sorting and breaking	Hand sorting and breaking	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Hand sorting, screening is being done to upgrade the Mn ore.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste dump in southern side of ML	Waste dump in southern side of ML	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	198 plants	198 plants	
8g	Survival rate	90%	90%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	The ML area is surrounded by Mango gardens giving scenic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted Monthly returns up to September, 2016 and Annual Return for the year 2015-16	Submitted Monthly returns up to September, 2016 and Annual Return for the year 2015-16	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri. S.K.Mishra, Mining Engineer cum Mines Manager	Shri. S.K.Mishra, Mining Engineer cum Mines Manager	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under pits-3.5 ha, Reclaimed area-0.0 ha, Area under dumps-1.105 ha	Area covered under pits-3.5 ha, Reclaimed area-0.0 ha, Area under dumps-1.105 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	ROM-16810 t Graded ore- 10502 t	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	No sales during the year 2015-16. Ex.Mine Price-<25% Mn-RS. 4650/- <35% Mn-Rs. 4791 /- Cost of production-Rs.709.81/-	Ex.Mine Price-<25% Mn-RS. 4650/- <35% Mn-Rs. 4791 /- Cost of production-Rs.709.81/-
9h	Scrutiny of Annual return on fixed assets	Rs. 93,20,000/-	Rs. 93,20,000/-
9k	Scrutiny of Annual return on mining machineries	Shovel with 0.9 cu.m-1 No. Tippers- 2 Nos	Shovel with 0.9 cu.m-1 No. Tippers- 2 Nos

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
Rule 13(1)	08/12/2016				
Rule 23E(2)	08/12/2016				

Date :**(Ch.Suseela)**

Indian Bureau of Mines