

**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 : **S41** ) **Y M SIVA PRASAD**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sri S.K.Mishra, Mining Engineer  
Official with  
Designation
- (iv) Date of Inspection : 12/01/2018
- (v) Prev.inspection date : 21/10/2016

**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	:	MP modif under 17(3) MCR 2016	03/07/2017

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Back log of 09 Core bore holes(270 meters) for the previous year,	09 Core bore holes drilled and completed.	
1b	Exploration over lease area for geological axis 1 or 2	Proposed 04 Core bore holes ( Total,120 meters depth) during the year 2017-18.	Yet to drill 04 Core bore holes.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	N I L	N I L	
1d	Balance area to be explored to bring Geological axis in 1 or 2	7.03 ha.	7.03 ha.	
1e	Balance reserve as on 01/04/20	523787 tonnes	516620 tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc	----- -----	----- -----	Lessee has carried out / completed 14 no. of Core bore holes during 2016-17a total depth 258.0 meterage.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	RL 122 to 113 m. Section A-A' to C-C'	RL 122 to 113 m. Section A-A' to C-C'	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes.	Separate benches are maintained in ore and OB.	
2c	Stripping ratio or ore to OB ratio	1 : 1.11	1: 1. 10	
2d	Quantity of topsoil generation in m3	No proposals.	N I L	

2e Quantity of overburden generation in m3 982 Cu.m. 1036 Cum.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One .	One.	
3b	Quantity of ROM mineral production proposed	2016-17 = 25323 tonnes	2016-17 = 15350 tonnes.	
			2017-18 = 7167 tonnes. (Upto Dec.2017)	
		2017-18 = 23581 tonnes.		
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	
3d	Quantity of mineral reject generation	2016-17 = 4174 Cu.m	2016-17 = N I L	
			2017-18 = N I L	
		2017-18 = 3711 Cu.m.		
3e	Grade of mineral rejects generation and threshold value declared.	Less than 10% Mn.	N I L	
3f	Quantity of sub grade mineral generation.	No proposals	There is no generation of sub-Grade mineral.	

3g	Grade of sub grade mineral generation	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.	No proposals	N I L
3j	Provision of drilling and blasting in mineral benches	No proposals	N I L
3k	Provision of mining machineries in mineral benches	Excavator = 0.9 Cu.m-- 01	Excavator = 0.9 Cum - 01
			Tippers = 02 . 20 tonnes capacity.
		Tippers = 02 Nos. 20 tonnes Capacity.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Suitable for method of mining as proposed in the Review of Mining Plan.
3m	Total area covered under excavation/pits	2.6.2 ha.	4.116 ha.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 1.11	1 : 1.11
3o	Total area put in use under different heads at the end of year	4.7005 ha (2017-18)	4.7 ha.

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

2013-14 = 4565 tonnes. 2013-14 =4592 tonnes.

2014-15 =5138 tonnes.

2014-15 =  
4354 tonnes.

2015-16 =16810 tonnes  
2016-17= 15350 tonnes,  
2017-18 = 7167  
tonnes.(Upto Dec.2017)

2015-16  
= 24301  
tonnes,2016-17  
= 25323  
tonne,2017-18  
=23581 tonnes.

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

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Mining operations are carried out by Semi-mechanised Opencast method.as proposed in the Review of Mining Plan document, approved on 03.07.2017.

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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)	Yers.	Seperate waste dump maintained.	
4b	Location of topsoil, OB and mineral reject dumps	Northwest of M L area.	Northwest of M L areas proposed.	

4c	Number of dumps within lease area and outside of lease area	One dump.	One dump.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Northwest of ML area.	Northwest of ML area.	
4e	Number of active and alive dumps.	One.	One.	
4f	Number of dead dumps.	No proposals	---	
4g	Number of dumps established.	No proposals	---	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes.	garland drain made.	
4i	Length of Retaining wall or garland drain all along dumps	52 m	52 m.	
4j	Number of settling ponds	No proposals.	-----	
4k	Specific comments of inspecting officer on waste dump management	-----	-----	Waste dump is maintained as proposed in the approved Review of Mining Plan.

#### 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 proposal.	Pit is not yet matured for reclamation.	
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)	No proposal	N I L	

5d	Total area fully reclaimed and rehabilitated	N I L	N I L	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-----	-----	Pit is not yet matured for backfilling.

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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).	Lessee has to submit yearly report as per statuate.	The lessee has submitted yearly report to this office.	
6b	Area available for rehabilitation (ha) .	N I L	N I L	
6c	afforestation done (ha).	N I L	N I L	
6d	No. of saplings planted during the year	N I L	N I L	
6e	Cumulative no .of plants	N I L	N I L	
6f	Any other method of rehabilitation	N I L	N I L	
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	N I L	N I L	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	N I L	N I L	



6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	N I L	N I L	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	N I L	N I L	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	N I L	N I L	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals	N I L	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	N I L	N I L	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	N I L	N I L	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes.	Done.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	None.

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 Mineral Conservation:
 

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Sl.No.	Item	Propasals	Actual work	Remarks
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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	No proposals	-----	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	Manual sorting , screening is done to upgrade the Manganese ore.

## Environment :

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

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N I L	N I L	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No Proposals	N I L	
8g	Survival rate	-----	N I L	
8h	Water sprinkling on roads to control airborne dust	Yes.	Water sprinkling on haul roads is done by water tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	The Mining Lease area is surrounded by Mango trees with aesthetic beauty.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Lessee has to submit Monthly returns and Annual return for the year as per statute.	Submitted Monthly returns and Annual Return for the year 2016-17 to this office through On-Line.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri S.K.Mishra, Mining Engineer. and Manager (Mines).	Shri S.K.Mishra, Mining Engineer. and Manager (Mines).	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under excavation : 4.116 ha.	Area covered under excavation : 4.116 ha.
			Area covered for waste dumping : 0.045 ha.
		Area covered for waste dumping : 0.045 ha.	Area covered under Building, plant and residence : 0.539 ha.

		Area covered under Building, plant and residence : 0.539 ha.	
9d	Scrutiny of Annual return on afforestation	N I L	N I L

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	N I L	N I L
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9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM-- 899 tonnes.	ROM-- 899 tonnes.
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Graded Ore -- 6931.670 tonnes.

Graded Ore  
-- 6931.670  
tonnes.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	2016-17 = Ex. Mine Price -- below 25% Mn- Rs.3910/- and 25% to 35% -- Rs.3910/- .	2016-17 = Ex. Mine Price -- below 25% Mn- Rs.3910/- and 25% to 35% -- Rs.3910/- .  Cost of Production -- Rs. 1458/-  .  Cost of Production -- Rs. 1458/-.
9h	Scrutiny of Annual return on fixed assets	No proposals	N I L
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 1.000 CUM 1 Non Electrical Opencast TIPPER 8.330 CUM 2 Non Electrical Opencast ELEC. MOTOR 50.000 HP 3 Non Electrical Opencast	SHOVEL (HYDRAULIC) 1.000 CUM 1 Non Electrical Opencast TIPPER 8.330 CUM 2 Non Electrical Opencast ELEC. MOTOR 50.000 HP 3 Non Electrical Opencast

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**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

Date :

(Y M SIVA PRASAD)

Indian Bureau of Mines