

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/NLR/VR-14

**Mine code :** 62APR15013

- (i) Name of the Inspecting : **DP09** ) **D.P.Ravi kumar**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 20/06/2018
- (v) Prev.inspection date : 27/10/2016

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MURUGA**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : ANDHRA PRADESH  
District : NELLORE  
Village : RAJUPALEM  
Taluka : GUDUR  
Post office : RAJUPALEM  
Pin Code : 524102  
FAX No. :  
E-mail :  
Phone :
- (f) Police Station :
- (g) First opening date : 01/01/1974
- (h) Weekly day of rest : SUN
2. Address for : PALICHERLA(V),RAJUPALEM(PO)  
correspondance : GUDURU(M)  
NELLORE DISTRICT
3. (a) Lease Number : APR0642
- (b) Lease area : 4.4
- (c) Period of lease : 20
- (d) Date of Expiry : 28/02/1999
4. Mineral worked : VERMICULITE Main

## 5. Name and Address of the

Lessee : SRI RAMA MARUTHI VERMICULITE MINES  
T.MEENAKSHISUNDARAM,  
23,SATYAVANIMUTTU ST  
ERUKKAMCHERRY,CHENNAI  
CHENNAI CITY TAMIL NADU  
Phone:  
FAX :

Owner : SRI RAMAMARUTHI VERMICULITE MINES  
T.MEENAKSHISUNDARAM, MG PR  
23,SATYAVANIMUTTU ST  
ERUKKANANCHERRY,CHENNAI-52  
CHENNAI CITY TAMIL NADU  
Phone:  
FAX :

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	28/01/2004
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	24/08/2016

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such proposals	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	0.160 ha.	0.168 ha.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	8.91 ha	8.902 ha	Nil
1e	Balance reserve as on 01/04/20	25614 t	25614 t	Nil
1f	General remarks of inspecting officers on geology, exploration etc	The proposed pit dimensions for 2017-18=50x32x3.5	The proposed pit dimensions for 2017-18=51x33x3.5	Lessee continuing the mining operations as per the approved review of mining Plan.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Along section line BB'	Along section line BB'	Complied
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, No. of benches in topsoil-1 no overburden-1 no mineral-2 nos.	Yes, No. of benches in topsoil-1 overburden- Nil mineral- 1	Pit development was on proposed location, no diviation found.
2c	Stripping ratio or ore to OB ratio	1:3.1	1:9.1	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil

2e	Quantity of overburden generation in m3	362.5 m3	350 m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Nil	Development was observed within approved limit.	Development was observed within approved limit.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	Nil
3b	Quantity of ROM mineral production proposed	3153.75 tonnes	3205 tonnes	Nil
3c	Recovery of sailable/usable mineral from ROM production	75%	75%	Nil
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil

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3j	Provision of drilling and blasting in mineral benches	Yes	Nil	Nil
3k	Provision of mining machineries in mineral benches	Nil	Nil	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes 1.5m ht	Nil	Nil
3m	Total area covered under excavation/pits	0.160 ha	0.068 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:3.1	1:9.1	Nil
3o	Total area put in use under different heads at the end of year	3.9212 ha	3.7102ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2013-14=Lapsed period 2014-15=Lapsed period 2015-16=Lapsed period 2016-17-3480t 2017-18-3153.75t	2013-14=Nil 2014-15=Nil 2015-16- Nil 2016-17- Nil 2017-18- 3205t	Annual returns for the year 2012-13 to 2017-18 not submitted by the lessee. However production figures taken from the production register during the inspection. The necessary violation is being pointed out to the lessee.
3q	General remarks of inspecting officers on method of mining etc.	Opencast Mining	Opncast Mining, not found any deviations. For non compliance of statutory returns, the necessary violation is being pointed out.	Open cast Mining, not found any deviations,. For non compliance of statutory returns, the necessary violation is being pointed out.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Nil	Nil	Nil
4b	Location of topsoil, OB and mineral reject dumps	Nil	Nil	Nil
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	Nil
4e	Number of active and alive dumps.	Nil	Nil	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	There are nine existing dumps available with in the lease area.	There are nine existing dumps available with in the lease area.	There are nine existing dumps available with 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.	Nil	Nil	Nil

5b	Area under backfilling of mined out area	0.11 ha	0.10 ha.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	0.21 ha	0.20 ha.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	As per proposal provided.	As per proposal provided.	Nil

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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).	Yes	Yes	Nil
6b	Area available for rehabilitation (ha) .	i) 0.11 ha	i) 0.10 ha	Nil
6c	afforestation done (ha).	ii) 0.043 ha	ii) 0.008 ha	Nil
6d	No. of saplings planted during the year	iii) 108 nos	Not achieved as proposed.	Afforstation not done as proposed. The necessary violation is being pointed out.
6e	Cumulative no .of plants	300	200	Afforstation not done as proposedfor the year 2017-18. The necessary violation is being pointed out.
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	i) 60mx26m x6m	i) 60mx26mx6m	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	3462.5 cum	ii) 3140 cum	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil



6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, 3 nos in core zone & 2 nos. in buffer zone.	Complied as proposed.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	108 No. of Saplings were proposed during the year 2017-18 . But same is not achieved by the lessee.	108 No. of Saplings were proposed during the year 2017-18 . But same is not achieved by the lessee.	The necessary violation is being pointed out.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting	Grade wise sorting	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting & grading.	Manual sorting & grading is being done.	Nil
7c	Different grade of mineral sorted out at mines.	Not specific	0-2mm, 2-4mm & 4-8 mm.	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No comments.	There is no mineral conservation problems in the mine.	There is no mineral conservation problems in the mine.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Not applicable	Nil

8b	Concurrent use or storage of topsoil	Not proposed.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Not applicable.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	108 saplings were proposed over an extent of 0.043 ha for the year 2017-18.	Not achieved as proposed. The necessary violation is being pointed out.	Not achieved as proposed. The necessary violation is being pointed out.
8g	Survival rate	80%	Nil	108 saplings were proposed over an extent of 0.043 ha for the year 2017-18. But not achieved the same.
8h	Water sprinkling on roads to control airborne dust	Not proposed.	Not applicable.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around the mines has been maintained. But saplings proposed for 2017-18 not achieved.	Aesthetic beauty in and around the mines has been maintained. But saplings proposed for 2017-18 not achieved.	Aesthetic beauty in and around the mines has been maintained. But saplings proposed for 2017-18 not achieved. The necessary violation is being pointed out.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18 and monthly returns from January 2016 onwards have not submitted.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18 and monthly returns from January 2016 onwards have not been submitted.	The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18. The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18. The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out.
9d	Scrutiny of Annual return on afforestation	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18. The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18. The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18. The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out.	The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out.	The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out. The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out.
9h	Scrutiny of Annual return on fixed assets	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18. The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out.
9k	Scrutiny of Annual return on mining machineries	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18.	The lessee is not submitted the Annual Returns for the year from 2012-13 to 2017-18. The necessary violation for non compliance of rule 45(5)(i) & 45(C)(I) is being pointed out.

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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

**Date :**

(D.P.Ravi kumar)

Indian Bureau of Mines