

TMIS DATABASE FOR MCDR INSPECTION (MANUAL)

1(i)	Mine File No.	AP/NLR/Vr-14
(ii)	Mine Code No.	62 APR 15013
(iii)	Date of Inspection	27.10.2016
(iv)	Name of Mine	Sri Muruga Vermiculite mine
(v)	Name of the lessee with address	M/s.Sri Rama Maruthi Vermiculite Mines, T.Meenatchi Sundaram, Mg.Partner, 310, CIDCO, Aiena Tower, 1 st Main, Ambattur Industrial Estate, Chennai-600 058.
(vi)	Name of owner with address & Phone	-do-
(vii)	Lease area in Ha.	10.87He
(viii)	Date of execution	27.05.1979
(ix)	Expiry date	Date of execution RML = 27.05.1999 Date of Expiry RML = 26.05.2019
(x)	Date of first opening	During 1974 (exact date is not available)
(xi)	Earlier two dates of inspection	i) 27.05.2008 (ii) 13.05.2015
(xii)	Name & designation of the Inspecting officer with ID No.	D.P.Ravikumar, Assistant Mining Geologist
(xiii)	Name & Designation of mine Official accompanying	Shri P.Srinivasulu, representative of the lessee.
(xiv)	Mine address	
	State	Andhra Pradesh
	District	Nellore
	Village	Palicherla – Rajupalem
	Mandal	Gudur
	Post Office	Rajupalem
	Police Station	Gudur
	Pin code	524 101
	Fax	0
	E-mail	0
(xv)	Type of Mine (OC, UG, BOTH) Working/Non-Working	OC – Non-working. Lessee informed that Due to EC problem mine not yet reopened.
(xvi)	Weekly day of rest	Sunday
(xvii)	Date of AMP/SMP	Review of Mining Plan under rule 17(2) of MCR, 2016 was approved on 24.08.2016.

2. LAND DETAILS (WITHIN LEASE AREA)

Code	FOREST	Area (Ha)
33	Total Forest	0
1	Reserve Forest	0
2	Protected forest	0
3	Forest unclassified	0
4	Forest sanctuary	0
5	Forest national park	0
6	Forest mineralised	0
7	Forest non-mineralised	0
19	Degraded land by pit	0
20	Degraded land by dump	0
23	Degraded land by road	0
25	Degraded land by plant, Building, Town	0
31	Land acquired	0

Code	FOREST	Area (Ha)
34	Total Non-Forest	10.87
8	Private land	0
9	Agricultural irrigated land	0
10	Agricultural non-irrigated land	0
12	Govt.grazing land	0
13	Govt.waste alnd	10.87
14	Govt. other land	0
15	Mineralised	5.0
16	Non-mineralised land	5.67
21	Degraded land by pit	1.80
22	Degraded land by dump	0.08
24	Degraded land by road	0.1
26	Degraded land by plant, Building, Town	0
32	Land acquired	10.87

3. MINERAL

Main Mineral(s)	Associated Mineral(s)	Captive Use (Yes/No)	End Product	Non captive use		Remarks
				Domestic (Yes/No)	Export (Y/N)	
Vermiculite	0	No	0	Yes	Y	0

4. MINING ENGINEER/GEOLOGIST DATA (APPOINTED UNDER RULE-42 OF MCDR, 1988) AND MINES MANAGER (appointed under MMR, 1961)

Status	Name	Designation	Educational Qualification	Date of Appointment	Address
Agent				NA	
Mining Engineer/ Geologist	None				
Manager	0	0	0	0	0

5. EXPLORATION

a) Exploration carried out as on 1.4. 2015

No .of boreholes	0	No.of pits	2	No. of trenches	2
Grid interval(m)	0	--		--	
Max. depth(m)	0	Max. depth(m)	2.0	Max. Length(m)	20
Min. depth(m)	0	Min. depth(m)	1	Min. Length(m)	10
Total meterage	0	Total meterage	3.0	Total Length(m)	30

6. EXTENT OF OPEN-PIT DEVELOPMENT

Pit No.	Pit Size	No.of OB Benc h	Ht.of Benc h (m)	Widt h (m)	No.of Benche s In ore	Hei - Ght (m)	Widt h (m)	Pit Dept h (m)	To p RL (m)	Bott o mRL (m)	Overall Pit slope
01	80x25x20	1	1	1	1	2	5	3m	97	92	80°
02	60x25x20	1	1	1	1	1	3	2m	97	90	80°
03	40x30x20	1	1	1	1	2	5	3m	97	92	80°
04	20x20x10 (old pits not working)	1	1	1	1	1	3	2m	97	90	80°
05	20x20x10 (old pits not working)	1	1	1	1	2	5	3m	97	92	80°
06	20x20x10 (old pits not working)	1	1	1	1	1	3	2m	97	90	80°
07	20x20x10 (old pits not working)	1	1	1	1	2	5	3m	97	92	80°
08	20x10x10 (old pits not working)	1	1	1	1	1	3	2m	97	90	80°
09	80x20x220 (old pits not working)	1	1	1	1	2	5	3m	97	92	80°
10	60x20x20 (old pits not working)	1	1	1	1	1	3	2m	97	90	80°

11	20x20x20 (old pits not working)	1	1	1	1	2	5	3m	97	92	80°
12	15x15x8 (old pits not working)	1	1	1	1	1	3	2m	97	90	80°
13	70x10x5 (old pits not working)	1	1	1	1	2	5	3m	97	92	80°
14	5x5x3 (old pits not working)	1	1	1	1	1	3	2m	97	90	80°
15	50x40x20 (water logged)	1	1	1	1	2	5	3m	97	92	80°
16	50x40x20 (water logged)	1	1	1	1	1	3	2m	97	90	80°
17	70x10x10 (water logged)	1	1	1	1	2	5	3m	97	92	80°
18	50x20x6 (water logged)	1	1	1	1	1	3	2m	97	90	80°
19	10x10x10 (water logged)	1	1	1	1	2	5	3m	97	92	80°

7. REHABILITATION OF QUARRIES

Quarry / Open pit

Year	Area Broken (Hect.)	Area Recla imed	Area Mated For recla -mation	% of reclam ation	Area Rehabilitated			Total Area Rehabilitated
					BF	WR	OM	
1) Cumulative as on 1.4.2016	1.80	-	-	-	-	-	-	-
2) During the previous year	-	-	-	-	-	-	-	-
3) Cumm. As on date of inspection on	1.80	-	-	-	-	-	-	-

BF= Back filled; WR = Water reservoir; OM = Other means; Remarks = Under remarks give post mining land use of the area reclaimed.

8. CHARACTERISTICS OF WASTE DUMP AND TOP SOIL DUMP

A) OB Dump=One A) Area=0.08 ha. B) Height=2m C)Capacity cu.m =1600
B) Topsoil dump= - A) Quantity generated=nil B) Used=nil

9. OVERBURDEN AND WASTE GENERATED

OB Removal

Year	OB removed In previous Year(cu.m)	Cumulative O.B Removed till end of Previous year (cu.m)	Ore: OB ratio Previous year (Total –cum)	Whether Dumping on Mineralized Ground(Y/N)	Remark, if Dumped on Mineralized Ground
2015-16	--	4000	-	No	0

10. PRODUCTION & RESERVE

a) Reserve as on 1.4.2016

Name of Mineral	Proved		Probable		Possible		Total	
	Qty(t)	Grade	Qty(t)	Grade	Qty (t)	Grade	Qty (t)	Grade
Vermi Culite	1848	-	2896	-	2896	-	7640	MgO 14.73% Fe ₂ O ₃ 16.7% Al ₂ O ₃ 14.56%

* The updated reserves are not furnished due to non- receipts of returns, The violation of rule 45(5)(a)(viii) & (b) is being pointed out. (The draft violation is being sent to RCOM, IBM, Hyderabad for further action).

b) Annual production (Annual Returns not submitted from 2012-13 to 2015-16)

Year	Minerals	Production(t)	Dispatches/Sale(t)	Closing stock(t)
2011-12	Vermicuile	3376	4276	730
(Annual Returns not submitted from 2012 to 2015-16)				

11. SUB-GRADE MINERAL AND MINERAL REJECT

a) Sub-grade mineral

Name of Mineral		Quantity generated	Quantity Consumed	% utilisation	Quantity Stacked	Nature of Utilization	Grade of Sub-grade
Vermiculite	Cumulative at the End of previous Year 1-4-2016	0	No generation & accumulation of sub-grade mineral was observed.				-
	During previous year	0					
	Cum.as on date of inspection	0	-	-	-	-	

12. RECLAMATION/REHABILITATION OF WASTE DUMP – Area : _____ Nil_____ (ha)

13. PLANTATION

Plantation	Inside mining lease			Outside mining lease		
	No.of Trees	Area in Hect	Rate of Survival	No.of Trees	Area in Hect.	Rate of survival
1. Already carried out up to the end of previous year – cumulative	200	0.60	60%	-	-	-
2. During the previous Year	-	-	-	-	-	-
3. As on date of inspection(cumulative)	200	0.60	60%	-	-	-

PART – II :: TECHNICAL DETAILS/COMMENTS**1. Details about average employment****Maximum number of persons employed on any day during the year**

Classification	Direct	Contract	Total	Av.no of Days worked	Opencast / Underground
Managerial	0	0	0	AR not furnished	0
Supervisory	0	0	0		0
Workers	0	0	0		0
Ministerial	0	0	0		0
Employment in Plant	0	0	0		0
Others	0	0	0		0
Total					

* The annual returns and monthly returns are not submitted. Accordingly, draft violation letter for rule 45(5)(a)(viii)(45(5)(b)(viii) is being sent to RCOM, IBM, Hyderabad for further action.

2. Community Development plan (in and around the mines)

Expenditure in Rs.

Sl. No.	General	Proposed For previous year (in Lakhs)	Proposed For current year (in Lakhs)	Incurred In previous year (in Lakhs)	Incurred so far (in Lakhs)	Remarks
1	2	3	4	5	6	7
1a	Housing					
1b	Water Supply					
1c	Sanitation					
1d	Health					
1e	Safety	NIL				
1f	Medical facility					
2	Training					
3	Employment					
4a	Public Transport					
4b	Roads					
4c	Communication					
4d	Electricity					
5a	Recreation					
5b	Sports activities					
6	Environment Management					
7	Others				30,000	Donation for festivals in the village
	Total				30,000	

3. Status of compliance of MC DR 1988, including therewith the rectification of the outstanding violation of rules.

During last inspection of mine on 13.05.2015, rule 12(3), 13(1), 22, 23 F(3) , 24, 42(1)(b)(ii), 45(1)(a)(viii) & 45(1)(b)(viii) have been observed and accordingly draft violation letter sent to RCOM, IBM, Hyderabad for further action. Lessee complied the rules 12(3), 13(1) & 23(F)(3) (review of Mining Plan on approved on 24.08.2016). Rest of the rules not complied.

During current inspection, contravention of rule 22, 24, 42(1)(b)(ii), 45(5)(a)(viii) & 45(5)(a)(viii) have been observed and accordingly draft violation letter is being sent to RCOM, IBM, Secunderabad for further action.

4. A note on justification in case of suspension of mining operation under Rule 13(2) or prohibition of deployment of any person under Rule 56 of MCDR 1988, if recommended.

Stoppage of mining operations under rule 13(2) or 56 of MCDR 1988 is not recommended for the present.

5. Scientific Mining.

Items	Proposal	Actual work done	Remarks
A) Exploration (Rule 13)			
a) Type of prospecting & exploration i.e., pitting, drilling etc.	-	-	
b) Total area covered			
23 Working (Rule – 13)			
a. Number and size of each pit (LxWxH)	-	1) 80x25x20 2) 60x25x20 3) 40x30x20 4) 20x20x10 (old pits not working) 5) 20x20x10 (old pits not working) 6) 20x20x10 (old pits not working) 7) 20x20x10 (old pits not working) 8) 20x10x10 (old pits not working) 9) 80x20x220 (old pits not working) 10) 60x20x20 (old pits not working) 11) 20x20x20 (old pits not working) 12) 15x15x8 (old pits not working) 13) 70x10x5 (old pits not working) 14) 5x5x3 (old pits not working) 15) 50x40x20 (water logged) 16) 50x40x20 (water logged) 17) 70x10x10 (water logged) 18) 50x20x6 (water logged) 19) 10x10x10 (water logged)	Review of Mining Plan under rule 17(2) of MCR, 2016 was approved on 24.08.2016. The document approved on 24.08.2016 for proposals from 2015-16 to 2019-20. But 2015-16 is already lapsed. No proposals given for 2015-16.

6. Conservation of Mineral – both quantitative and qualitative.

Beneficiation (Rule 20 and 26)	
Efforts for improving low grade and sub-Grade mineral	Manual sorting & grading was done to improve the grade of mineral.
Efforts for improving percentage of Recovery of ore.	Recovery of saleable mineral in ROM was 80%.
Mineral (Rule – 15)	
No.of benches in ore and waste	Single bench was formed in the working pit.
Percentage of recovery of ore pit-wise w.r.t ROM and total material	80%
Sub-grade mineral/fines(Rule – 16)	
Separate stacking from waste	The sub-grade/mineral reject is in fact intercalations of schist and weathered material. This is waste material. Hence it was not stacked separately.
Location of stacking	
Total area covered for stacking	
No. and size of each stack	
Quantity of yearly generation and total Quantity available during inspection with Grade	

7. Environment Management – both quantitative and qualitative.

A. Land environment

a. Landscape	The area is plain undulated terrain devoid of vegetation except some neem trees.
b. Aesthetic environment	There is nothing to high light.
c. Soil and land use pattern	Top capping of 0.5m thick soil need to be removed as OB. This is dumped on SW side of lease. About 4 hectare of lease area was used for mining & waste disposl.
d. Agriculture	No agricultural activities observed in the vicinity of lease hold.
e. Forest (flora and fauna)	No forest (RF) is involved neither any threat to forest wealth.
f. Vegetation	Except some big neem trees (25 Nos.) the area is devoid of any vegetation.
g. Public building, places and monuments (protected, historical), place of worship and places of tourist importance.	No public buildings, places of monuments, worship places and tourist spots are exist. Village road to Vedicherla from Rachapalem pass within the lease area.
B. Water environment	
a. Surface water	No surface nallas / rills existing in and around the lease hold.
b. Ground water	No seepage of water is observed in any workings.
c. Quality of water	The water is potable for workers drinking purpose.

C. Air environment	
a. Noise	No significant noise pollution was observed.
b. Air	Significant air pollution was not observed being manual mining.
c. Climatic condition	The climate is seasonal & tropical.
D. Socio economic environment	
a. Social and demographic profile	The local villagers are agriculturists.
b. Recommending health and safety	No adverse on health & safety was reported.
c. Human settlement	No human settlements observed nearby.
d. Recreational facility	Nil

8. Scrutiny of annual returns on cost of operation, reserves, production, pit's mouth value, stock, land use pattern and fixed assets.

The Annual Returns have not been submitted from 2012-13 to 2015-16 and hence scrutiny could not be undertaken. In this necessary draft violation is being sent to RCOM, IBM, Hyderabad for further action.

PART – III :: PERFORMANCE OF MINE OWNER

(In case of lease expiring within 2 years – as per guidelines)

Not applicable.

PART – IV :: PROPOSAL FOR FURTHER ACTION FOR

- a) Indian Bureau of Mines (any issue related to CGPB, SGPB, assistance, consultancy, annual Programme and studies etc.) : Nil
- b) The State Government (illegal mining, mining dispute, infrastructure, mineral based industry, Mineral policy & etc.) : Nil
- c) The Central Government (infrastructure development, mineral policy and legislation, mineral based industry & etc.) : Nil

Draft

Government of India
Ministry of Mines
Indian Bureau of Mines
Office of the Regional Controller of Mines

Hyderabad,
Date:

No. AP/NLR/Vr-14

To

Shri T.Meenatchi Sundaram, Mg.Partner,
M/s.Sri Rama Maruthi Vermiculite Mines,
310, CIDCO, Aiena Tower, 1st Main,
Ambattur Industrial Estate, Chennai-600 058.

Sub : Violation of Provisions of MCDR 1988 in respect of your Sri Muruga **Vermiculite Mine** in
SPSR Nellore district of State Andhra Pradesh over an extent of 10.87 ha. Reg.

Dear Madam,

The following provisions of Mineral Conservation and Development Rules, 1988 were found violated in your above mine during inspection on 27.10.2016 by D.P.Ravikumar, Assistant Mining Geologist, Indian Bureau of Mines, Sub-Regional Office, Nellore, accompanied by your representative Shri P.Srinivasulu.

Rule No.	Nature of violation observed
22	Notice of opening of the mine has not been submitted in Form-C within 15 days of such opening.
24	It was reported that mine workings have been temporarily discontinued, but a notice in Form – D-I has not been submitted.
42(1)(b)(ii)	A part time mining engineer or a full time person to be employed in terms of the provisions of sub-rule (6) has not been employed as required under the rule.
45(5)(a)(viii)	Monthly returns in form F-8, since January 2016 onwards have not been submitted to the Regional Controller of Mines, IBM, Secunderabad so far as required under this rule.
45(5)(b)(viii)	Annual return in form H-8 for the year from 2012-13 to 2015-16 have not been submitted to the Regional Controller of Mines, IBM, Secunderabad so far as required under this rule.

02. In this connection, it is brought to your notice that the above violations constitute an offence punishable under Rule 58 of MCDR 1988.

03. You are advised to rectify the above violations immediately and intimate the position to this office within 45 (forty five) days from the date of issue of this letter.

Yours faithfully,

(PANKAJ KULSHRESTHA)
Regional Controller of Mines

N.O.O.:

Copy for kind information to :-

1. The Controller of Mines (SZ), IBM, Bangalore.
2. The Director of Mines & Geology, Govt. of Andhra Pradesh, 8 th floor, BRKR Bhawan, Hyderabad.
3. The Assistant Director, Dept. of Mines and Geology, Govt. of Andhra Pradesh, D.No. 26-3-457/1, 1 st Floor, C.Kalyan Complex, Near SBI, BV Nagar, Mini bypass road, Nellore.
4. The Assistant Mining Geologist, IBM, Nellore.

(PANKAJ KULASHRESTA)
Regional Controller of Mines

Government of India
Ministry of Mines
Indian Bureau of Mines

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8th Cross Road, Jyothi Nagar,
Vedayapalem, AK Nagar (PO),
Nellore-524004.(A.P)

Dated: 25.11.2016

AP/NLR/Vr-14

To

The Regional Controller of Mines
Indian Bureau of Mines
Secunderabad.

Sub: MCDR inspection report of Sri Muruga Vermiculite Mine in Palicharla village, Gudur Mandal, SPSR Nellore district, Andhra Pradesh owned by M/s Sri Rama Maruthi Vermiculite Mines.

Sir,

The above inspection report by D.P.Ravikumar, Assistant Mining Geologist in respect of his inspection on 27.10.2016 is forwarded herewith.

02. Violations of MCDR 1988 have been found. The draft violation letter is enclosed herewith for your kind information and further action.

03. Further action is to be taken as below:

- a) Indian Bureau of Mines : Nil
- b) The State Government : Nil
- c) The Central Government : Nil

Yours faithfully,

Encl: 1) MCDR Inspection report.
2) Draft violation letter.

(D.P.RAVIKUMAR)
Assistant Mining Geologist
Indian Bureau of Mines

