INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/NLR/VR-14 Mine code : 62APR15013

(i) Name of the Inspecting : M029) MADHU SUDHAN YADAV M

Officer and ID No.

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine : Sri. T. Meenatchi Sundaram, Managing Partner & Sri. P

Official with Designation

(iv) Date of Inspection : 19-JUN-23
(v) Prev.inspection date : 20-JUN-18

PART-I : GENERAL INFORMATION

. (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-JAN-74

(h) Weekly day of rest : SUN

correspondance GUDURU(M)

NELLORE DISTRICT

3. (a) Lease Number : APR0642
(b) Lease area : 10.87
(c) Period of lease : 50

(d) Date of Expiry : 26-MAY-29

4. Mineral worked : VERMICULITE Main

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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 ERUKKANCHERRY,CHENNAI-52 CHENNAI CITY TAMIL NADU

Phone: FAX :

6. Date of approval of Mining : Renewal under rule 22 MCR1960 28-JAN-04 Plan/Scheme of Mining MP modif under 17(3) MCR 2016 24-AUG-16

MP modif under 17(3) MCR 2016 25-JUN-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2021-22 - 09 Nos. core boreholes & 07 Nos. DTH boreholes	No exploration work carried out. Violation pointed out as per rule.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	As per the last approved MMP on 25.06.2021 , G1-3.148 Ha & unexplorated area is 7.722 Ha	d
1e	Balance reserve as on 01/04/20		Proved Mineral Reserves (111) as per MMP approved on 25.06.2021 -74561.38 Tonnes	-
1f	General remarks of inspecting officers on geology, exploration etc			No exploration carried out as per proposal. Violation pointed out as per rule.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E368890-	Working pit was developed outside the mining lease area between the co-ordinates E369002.14-N1559113.37, E369018.05-N1559089.02& E369079.19-N1559145.46, E369079.33-N1559127.06. Violation pointed out as per Rule.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	benches to be maintained in	Seperated benches developed in OB and mineral	
2c	Stripping ratio or ore to OB ratio	2021-22 - 1:1.19 2022-23 - 1:0.27	OB generation record not maintained. Violation pointed out for not maintaining the records.	

2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	2021-22 - 2919.5 cu.m 2022-23 - 13380 cu.m	OB generation record not maintained. Violation pointed out for not maintaining the records.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			No records maintained for generation and stacking of overburdena nd waste. Violation pointed out as per Rule.

Exploitation:

		_		
Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One major pit proposed in the central part of the lease area	Mining pit was developed outside the mining lease area. Violation pointed out for deviation.	
3b	Quantity of ROM mineral production proposed	2021-22 - 10150 Tonnes 2022-23 - 10150 Tonnes	2021-22 - 1970Tonnes 2022-23 - 1757 Tonnes	Violation pointed for developing mining pit outside the mining lease area.
3с	Recovery of sailable/usable mineral from ROM production	49%	ROM excavation register not maintained and also recovery percentage not recorded. Violation pointed out as per Rule.	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No applicable	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Nil	

3h	Manual / Mechanised method adopted for segregating	Manual method	Manual method adopted for segregatting ROM
3i	from ROM Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3j	Provision of drilling and blasting in mineral benches	No proposal	Nil
3k	Provision of mining machineries in mineral benches	No proposal	Nil
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Working pit developed outsided the lease. Violation pointed out as per Rule.
3m	Total area covered under excavation/pits	2.6907 Ha till 2024	Lease area utilisation submitted in the annual return and digital aerail images were not matching with the field conditions. Violation pointed out as per Rule.
3n	Ore to OB ratio for the pit/mine during the year.	2021-22 - 1:1.19 2022-23 - 1:0.27	OB generation record not maintained. Violation pointed out for not maintaining the records.
30	Total area put in use under different heads at the end of year	Site- 0.7733 Ha iii)	Lease area utilisation submitted in the annual return and digital aerail images were not matching with the field conditions. Violation pointed out as per Rule.

3p	Production of	2017-18 -	2017-18 - 3710 Te
	ROM mineral	3153.75 Te	2018-19 - 1901 Te
	during the last	2018-19 - 3698	2019-20 - Nil Te
	five year period	Te	2020-21 - 750 Te
	as applicable	2019-20 -	2021-22 - 1970 Te
		4567.5 Te	2022-23 - 1757Te
		2020-21 -	
		Lapsed	
		2022-23 -	
		4973.5 Te	

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

Working pit developed outsided the mining lease area. Violation pointed out as per Rule.

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	
4b	Location of topsoil, OB and mineral reject dumps	1 sub grade & 8 waste dump in the north western side of the lease	Old Sub grade and waste dumps were avaiable in the lease area	
4c	Number of dumps within lease area and outside of lease area	1 sub grade & 8 waste dump in the north western side of the lease	Old Sub grade and waste dumps were avaiable in the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active and alive dumps.	No proposal	Nil	
4f	Number of dead dumps.	1 sub grade & 8 waste dump in the north western side of the lease	Old Sub grade and waste dumps were avaiable in the lease area	
4g	Number of dumps established.	No proposal	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there.	& garland	Not developed. Violation pointed out as per rule.	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: Dump-4: 80mx0.5mx1m Dump-5: 102mx0.5mx1m Dump-6: 106mx0.5mx1m Dump-7: 55mx0.5mx1m Dump-8: 50mx0.5mx1m Dump-9: 60mx0.5mx1m Garland drain: 595mx0.5mx1m	Not carried out as per proposal. Violation pointed out as per rule.	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Dumps were not developed propoerly. Waste material was lying staggeredly 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.	0.0692 Ha 2022-23 - 13380 Ha @	Not carried out as per proposal. Violation pointed out as per Rule.	
5b	Area under backfilling of mined out area	Proposed backfilling	Not carried out backfilling as per proposal. Violation pointed out as per Rule.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	

5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling work not carried out as per proposal. Violation pointed out as per Rule.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted yearly report before 1st July	Not submitted. Violation pointed out as per Rule.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	2021-22 - 0.5244 Ha 2022-23 - 0.1244 Ha	Afforestation done as per proposal.	
6d	No. of saplings planted during the year	2021-22 - 108 Nos. 2022-23 - 108 Nos.	Afforestation not reported correctly in the annual returns. Violation pointed out as per Rule.	
6e	Cumulative no .of plants	No proposal	No records maintained for cumulative no. of plants planted.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring work to be carried out	Environmental monitoring work not carried out. Violation pointed out as per Rule.

6q General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.

Environmental monitoring work not carried out. Violation pointed out as per Rule.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting of waste and mineral proposed	Mineral and waste sorting done within the lease area.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Grade wise sorting not done in mines	Grade wise sorting not done in mines	
7d	Any beneficiation process at mines .	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral and waste sorted out in the mining lease area.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	

Sl.No.	Item	Propasals	Actual work	Remarks
Com	pliance of Rule	45:		
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation done as per the proposal. Vegetation found in and around the mining lease area.
8h	Water sprinkling on roads to control airborne dust	No proposal	Water sprinkling done.	
8g	Survival rate	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2021-22 - 0.5244 Ha 2022-23 - 0.1244 Ha & 2021-22 - 108 Nos. 2022-23 - 108 Nos.	Plantation done as per proposal.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal during the MMP period		

9a	Status of submission of Monthly and Annual returns	Monthly return Submitted before 10th of every monthand Annual return to be submitted before 1st July.	AR submitted in time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer: Nil Geologist: Nil Manager: Sri. P. Srinivasulu	Geologist and Mining Engineer not appointed as per Rule.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	ii) Waste Dump Site -0.18 Ha iii)	field conditions. Violation pointed out as
9d	Scrutiny of Annual return on afforestation	30 Nos.	Plantation details not submitted correctly. Violation pointed out as per Rule.
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	OS - 650 Te CS - 1970 Te	Total ROM production details not submitted correctly and ROM register not maintained for verfication.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	variation found in the annual	i.In the monthly returns during the year 2021-22 you have reported Exmine price as Rs.625/-per tonne, but in the annual return 2021-22, you have reported Exmine price as Rs.875000/- per tonne. ii. Deduction claimed for cost of transportation, loading and unloading charges not applicable for captive dispatches.	Violation pointed as per Rule.
9h	-		Value of fixed assets couldn't be verified.	
9k	Scrutiny of Annual return on mining machineries	-	Violation pointed out as per Rule.	

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Details of violations	observed d	during current	inspection and	compliance	position of
violation pointed out					
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Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on Compliance on	

Date :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines