

MCDR INSPECTION REPORT		
	Name of the inspecting officer	Shri. D Chandrashekhar Reddy Sr. Mining Engineer
	Date of inspection	08.10.2024
	Accompanied mine official and designation	Dr. E.Ganesan – Dy.Manager Mining Lease, Mr.K.Sakthivel – (Divisional Manager) Geologist
	Mine file No.	TN/NA/VER-2.MDS
General		
S. No.	Particulars	Details
1	Name of the Mine	Sevathur Vermiculite Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non- Forest – 23.71.0 Ha (Patta land – Nil & Poramboke Land – 23.71.0Ha) Forest – NIL
3	Mine code	62TMN08001
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5661/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. Tamil Nadu Minerals Limited, No.31,Kamarajar Salai, Chepauk, Chennai-600005 Office : 044-28415003 / 28511972 Fax : 91-44-2852 4960
6	Village	Sevathur & Elavampatti
7	Taluka/Mandal	Tirupattur
8	District	Tirupattur
9	Pin code	630206
10	State	Tamil Nadu
11	Post office	Koratti
12	Nearest police station	Tirupattur
13	Nearest railway station	Tirupattur
14	Date of Grant of Mining Lease	14.07.2004
15	Date of Execution	19.10.2004
16	Date of opening of mine (Registration)	16.11.2004
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	MI was extended vide GO.NO 3 dt : 27/02/2023 valid upto 22/04/2040
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri. Anil Meshram I.A.S Nominated Owner, Tamil Nadu Minerals Limited, No.31,Kamarajar Salai, Chepauk, Chennai-600005 Date of Appointment – 19.12.2023

21	Name of the Mine Agent with address, phone, email, fax number and date of appointment	Shri. K.Sakthivel Tamil Nadu Minerals Limited, No.35,West Link Colony Road, 4 th Cross,Co-Operative Colony, Krishnagiri-635001. Date of Appointment – 11.07.2022				
22	Name of the Mines Manager with address, phone, email, fax number and date of appointment in mines	NIL. Mine not in operation.				
23	Name of the Mines Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in mines	NIL. Mine not in operation.				
24	Whether Geologist and Mining Engineer appointed in mines satisfy the Rule 42 & carrying out their duties as per rule 43 & 44.	Shri. K.Sakthivel Tamil Nadu Minerals Limited, No.35,West Link Colony Road, 4 th Cross,Co-Operative Colony, Krishnagiri-635001. Date of Appointment – 11.07.2022				
25	Date of Approval of Mining Plan/Modified Mining Plan with five – year period and specific condition in approval letter, if any.	S. No.	Details	Extent (Ha)	Period	Approved Reference
		1.	Mining Plan	23.71.0	1990-1991 to 1994-1995	COM, IBM, SZ, Bangalore vide TN / NA / MP / Vr-300, Mds, dated: 05.09.1990.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five – year period and specific condition in approval letter, if any.	S. No.	Details	Extent (Ha)	Period	Approved Reference
		1.	Scheme of Mining	23.71.0	1995-1996 to 1999-2000	RCOM, IBM, Chennai, vide TN/ NAA /VER /MS41-MDS dated: 05.11.1997.
		2.	Mining Plan for renewal of lease	23.71.0	2000-2001 to 2004-2005	RCOM, IBM, Chennai, vide TN / VLR / MP / Ver-1489/ MDS, dated: 26.09.2003.
		3.	Scheme of Mining	23.71.0	2005-2006 to 2009-2010	SoM was not submitted.
		4.	Scheme of Mining	23.71.0	2010-2011 to 2014-2015	RCOM, IBM, Chennai, vide TN/VLR /VER/MS-875.MDS, dated: 18.07.2013.
		5.	Scheme of Mining	23.71.0	2015-2016 to	RCOM, IBM, Chennai, vide TN/VLR/VL/MS-

		6.	Review of Mining Plan & Progressive mine closure plan	23.71.0	2019-2020 2020-2021 to 2024-2025	1152.MDS, dated: 09.02.2015. TN/VLR/VER/ROMP-1586.MDS Dated 10.01.2020
27	Mineral(s) granted in lease and proved for Mining	Vermiculite				
28	Method of Mining (Opencast, underground)	Opencast				
29	Category (Fully Mechanized, Others or Manual)	Category 'B'				
30	Captive / Non Captive	Non-Captive				

EXPLORATION (2024-25)

S. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	NIL	Nil	NIL
1b	Exploration over lease area for Geological axis 1 or 2.	G-1	G-2	NIL
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NIL	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	NIL
1e	Balance reserves as on 01.04.2024 (111 Category)		17,88,458.60 Tons of proved reserves (As on 01.04.2024)	NIL
1f	General comments of inspecting officer on geology, exploration etc.	—	—	Mine is not in operation.

DEVELOPMENT (2024-25):

S. No.	Item	Proposals	Actual	Remarks
2a	Location of development w.r.t. lease area	Pit No.7 In b/w Grid 125W to 50E & 100S to 25N	Nil	Mine is not in operation due to poor market demand for vermiculite mineral.
2b	Separate benches in topsoil, overburden and minerals (Rule 13 of MCDR-2017)	Proposed.	Separate benches maintained	Mine is not in operation due to poor market demand for vermiculite mineral.
2c	Stripping ratio or ore to OB ratio	1:0.91	Nil	Mine is not in operation due to poor market demand for vermiculite mineral.
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	Nil	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	—	—	Mine not in operation.

Exploitation (2024-25):

S. No.	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	1 no.	Nil	Mine is not in operation due to poor market demand for vermiculite mineral.
3b	Quantity of ROM mineral production proposed	33,696 Tonnes	NIL	NIL
3c	Recovery of salable/usable mineral from ROM production	3,033 Tonnes	NIL	NIL
3d	Quantity of mineral reject generation	30,663 Tonnes	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NIL	NIL
3f	Quantity of sub grade mineral generation.	Nil	Nil	NIL
3g	Grade of sub grade mineral generation	Nil	Nil	NIL
3h	Manual / Mechanized method adopted for segregating from ROM	Manual	Nil	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	NIL
3j	Provision of drilling and blasting in mineral benches	Nil	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	1.5m	As per proposal	Mine is not in operation due to poor market demand for vermiculite mineral.
3m	Total area covered under excavation/pits	4.52.0Ha [8 No's of Pit]	NIL	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.91	NIL	Mine is not in operation due to poor market demand for vermiculite mineral.
3o	Total area put in use under different heads at the end of year	11.80 ha	11.80 ha	Mine is not in operation due to poor market demand for vermiculite mineral
		2019-20	3028 T	584 T
3p		2020-21	33,824 T	1451 T

	Production of ROM mineral during the last five year period as applicable	2021-22	33,694 T	NIL	Mine is not in operation due to poor market demand for vermiculite mineral.
		2022-23	33,850 T	NIL	
		2023-24	33,696 T	NIL	
3q	General remarks of inspecting officers on method of mining etc.	—	—	—	Mine is not in operation due to poor market demand for vermiculite mineral.

SOILD WASTE MANAGEMENT-DUMPING (2024-25):

S. No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 36,37)	Separate dumping proposed.	NIL	Mine is not in operation due to poor market demand for vermiculite mineral
4b	Location of topsoil, OB and mineral reject dumps	W.D. No.1 Near Pit No.2 (North Side of Lease area)	NIL	NIL
4c	Number of dumps within lease area and outside of lease area	4 No's With in the Lease	Old dumps exist as per plan.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	NIL
4e	Number of active and alive dumps.	One	NIL	NIL
4f	Number of dead dumps.	3	3	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drains are available all along the dumps	Old drains exist.	NIL
4i	Length of Retaining wall or garland drain all along dumps	400m	Existing Garland drain is being desilted every year before monsoon.	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	—	—	Mine is not in operation due to poor market demand for vermiculite mineral

SOLID WASTE MANAGEMENT-BACKFILLING (2024-25):

S. No.	Item	Proposals	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	Nil	NIL	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	Nil	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc	—	—	Backfilling, reclamation & rehabilitation does not arise at this stage.

PROGRESSIVE MINE CLOSURE PLAN (2024-25):

S. No.	Item	Proposals	Actual	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E (2).	--	--	
6b	Area available for rehabilitation (ha).	Nil	--	
6c	Afforestation done (ha).	0.02.0	0.02.0	
6d	No. of saplings planted during the year	20	20	
6e	Cumulative no .of plants	1200	1200	
6f	Any other method of rehabilitation	--	--	

6g	Cost incurred on watch and care during the year	5000	5000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D)	--		--
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	--		--
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation backfilled area	Nil		--
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	--		--
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	--		--
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	--		--
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	--		--
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	--		--
6p	Compliance of environmental monitoring (core zone and buffer zone)	Six months monitoring as EIA Notification 14.09.2006		Six months monitoring as EIA Notification 14.09.2006
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			

MINERAL CONSERVATION (2024-25):

S. No.	Item	Proposals	Actual Work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	33,696 Tonnes	Nil	Mine is not in operation due to poor market demand for vermiculite mineral
7b	Method of grade wise mineral sorting i.e. manual or mechanical.	Mechanical practice in exfoliation plant.	NIL	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NIL	NIL
7d	Any beneficiation process at mines	Nil	Nil	Exfoliation process of vermiculite in the plant.

ENVIRONMENT (2024-25):

S. No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Topsoil excavation planned.	NIL	Mine is not in operation due to poor market demand for vermiculite mineral
8b	Concurrent use or storage of topsoil	Nil	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed.	Waste dump maintained	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	Mineral not exhausted.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	20 nos saplings	20 nos saplings	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Mine not working	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Mine is not in operation due to poor market demand for vermiculite mineral
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COMPLIANCE UNDER RULE-45 (2024-25):

S. No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns submitted before 10th of every month. Annual Return already submitted for the year 2024-25		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	Mining Engineer – NIL Geologist – K.Sakthivel MSC (Geo) Manager- NIL	Mine not in operation.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	Area under Pits – 5.10 ha. Reclaimed area – 0.60 ha. Dumps – 4.10.0 Infrastructure – 1.685 ha..	Mine not in operation.
9d	Scrutiny of Annual return on afforestation	Details given.	50	Mine not in operation.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given.	NIL	Mine not in operation.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given.	2 tonnes	Mine not in operation.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Nil	Mine not in operation.
9h	Scrutiny of Annual return on fixed assets	NA	NIL	Mine not in operation. Lessee advised to furnish details mine wise.
9i	Scrutiny of Annual return on mining machineries	Details given.	--	Mine not in operation.

Chennai :
Date:

D.Chandrasekhar Reddy

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