

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/NA/VER-2/MDS

Mine code : 62TMN08001

- (i) Name of the Inspecting : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.E.Ganesan Dy. Manager and Mr.Ramesh Babu Divisin
Official with
Designation
- (iv) Date of Inspection : 07/12/2019
- (v) Prev.inspection date : 04/10/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SEVATHUR**
- (b) **Registration NO.** : **IBM/5661/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : TAMIL NADU
District : VELLORE
Village : SEVATHUR
Taluka : TIRUPATTUR
Post office : SEVATHUR
Pin Code : 635654
FAX No. : 044-28524960
E-mail : TAMIN@MD3.VSNL.NET.IN
Phone : 044-28530382 / 28570172
- (f) Police Station : KANDILI
- (g) First opening date : 01/07/1988
- (h) Weekly day of rest : SUN
2. Address for : SEVFATHUR VERMICULITE MINE,SEVATHUR,
correspondance SUNDARAPALLI.VIA,
TIRUPATHUR .TK,VELLORE.DT.
3. (a) Lease Number : TMN0391
- (b) Lease area : 23.71
- (c) Period of lease : 20
- (d) Date of Expiry : 22/02/2020
4. Mineral worked : VERMICULITE Main

5. Name and Address of the

Lessee : TAMILNADU MINERALS LTD
 31, KAMARAJA SALAI CHEPAUK,
 CHENNAI CHENNAI CITY TAMIL
 NADU
 Phone:
 FAX :

Owner : Chairman and Managing Director
 M/S.TAMIN,31Kamarajar
 Salai,TWAD House, Chepauk
 CHENNAI CITY TAMIL NADU
 Phone:
 FAX :

Agent : S.RAJENDRAN
 SEVATHUR VER MINE,
 SUNDARAPALLI.VIA,
 TIRUPATHUR.TK, VELLORE.DT.
 VELLORE TAMIL NADU
 Phone:
 FAX :

Mining Engineer
 Name : D.SIVAKUMAR,Full Time
 Qualification : B.E., MINING
 Appointment/ : 21/01/2018
 Termination date

Manager
 Name : T.R.SUNDARARAMAN
 Qualification :
 Appointment/ : 07/05/2018
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	05/09/1990
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	05/11/1997
		Renewal under rule 22 MCR1960	24/09/2003
		PMCP under 23B(1) for Renewal	26/09/2003
		Mining Scheme rule 12 MCDR1988	18/07/2013
		Mining Scheme rule 12 MCDR1988	18/07/2013
		Mining Scheme rule 12 MCDR1988	09/02/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	58 Nos BH drilled total met rage of 580 m
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Explored under G1&&G2 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	Explored under G1&&G2 level
1e	Balance reserve as on 01/04/20	-----	111 - 126147 tons 121 - 19873 tonns 221 - 17550 tons	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	Geology, exploration is found satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	pit No -7 RL 10.425 to 98.425	pit No -7 RL 10.425 to 98.425	As per the proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Mineral bench height 1.5 mts	Mineral bench height 1.5 mts	NIL
2c	Stripping ratio or ore to OB ratio	1: 0.91	1: 0.91	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	No top soil generation
2e	Quantity of overburden generation in m3	NIL	NA	No top soil generation

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	--	Development of pit is found satisfactory
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	ROM -33451 tonns (2018-19)	706 tons recoverable ore	Nil
3c	Recovery of sailable/usable mineral from ROM production	3011 tonns	706 tons	(9 % recovery from ROM)
3d	Quantity of mineral reject generation	30440 tonns	53261 tons	nil
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NA	NIL
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub grade mineral
3g	Grade of sub grade mineral generation	NIL	NIL	No sub grade mineral
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Hand picking, Winnowing and sieving
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	No sub grade mineral
3j	Provision of drilling and blasting in mineral benches	NIL	NA	No drilling and blasting

3k	Provision of mining machineries in mineral benches	NIL	NIL	Manual mine
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mineral bench height 1.5 mts	Mineral bench height 1.5 mts	NIL
3m	Total area covered under excavation/pits	6.10.0	6.10.0	(For 5 year)
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.91	--	not furnished
3o	Total area put in use under different heads at the end of year	----	11.81.0 ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2015-16 2990 2016-17 3006 2017-18 3011 2018-19 3011 2019-20 3028	2015-16 968 2016-17 1690 2017-18 1264 2018-19 706 2019-20 584	NIL
3q	General remarks of inspecting officers on method of mining etc.	-----	----	Method of mining is found satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	Minerl reject and sidr burden dump	As per the proposal
4b	Location of topsoil, OB and mineral reject dumps	Mineral reject dump E 150- E350 & N200 -N 100	Mineral reject dump E 150- E350 & N200 -N 100	As per the proposal
4c	Number of dumps within lease area and outside of lease area	3 Nos	3 Nos	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Mineral reject dump (i)E 150- E350 & N200 -N 100 (ii)W 50-E 75 &S 300-S 150 (iii)W 250- W200 & S100 - 0 NS	Mineral reject dump (i)E 150- E350 & N200 -N 100 (ii)W 50-E 75 &S 300-S 150 (iii)W 250- W200 & S100 - 0 NS	As per the proposal
4e	Number of active and alive dumps.	1	1	nil
4f	Number of dead dumps.	2	2	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NA	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	-----	-----	Waste dump management is found satisfactory.

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	NA	NIL
5b	Area under backfilling of mined out area	NIL	NA	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	NIL

5d	Total area fully reclaimed and rehabilitated	NIL	NA	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	---	---	Back filling not proposed.

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	Submitted	Submitted
6b	Area available for rehabilitation (ha) .	NIL	NA	NIL
6c	afforestation done (ha).	NIL	NA	NIL
6d	No. of saplings planted during the year	NIL	NA	NIL
6e	Cumulative no .of plants	NIL	NIL	NIL
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	NIL	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NA	Back filling not proposed
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	nil	NA	Mineral not fully explored
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NA	Mineral not fully explored
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	carried out periodically	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	-----	PMCP compliance & progressive closure operations is found satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	3011 (2018-19)	706 (2018-19)	Less production
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NIL	No Different grade
7d	Any beneficiation process at mines	NIL	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	---	Mineral conservation & beneficiation issues is found satisfactory

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	Top soil is use for Plantation
8b	Concurrent use or storage of topsoil	Top soil is use for Plantation	Top soil is use for Plantation	Top soil is use for Plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Mineral reject dump E 150- E350 & N200 -N 100	Mineral reject dump E 150- E350 & N200 -N 100	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Mineral reject dump E 150- E350 & N200 -N 100	Mineral reject dump E 150- E350 & N200 -N 100	---

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	30 nos 0.03.5 ha	90 nos 0.03.5 ha	NIL
8g	Survival rate	50%	50%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed	Water tanker used for water sprinkling	nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----	-----	Aesthetic beauty in and around mines area is found good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	Annual return for 2018-19 submitted	Submitted in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Shri.D.Sivakumar Mining Engineer Shri.Thangapandian - Geologist	Part-I Sl.No.8&9 & Part-II, Employment & Wages
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	0	Part-I Sl.No.12
9d	Scrutiny of Annual return on afforestation	Given in the format	90 nos	Part-I Sl.No.12

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	52555 tons	Part-V General Geology , Sl.No.4.2(B)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	Closing stock = 0	Part-VI, Sl.No.2 Part-VI, Sl.No.2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Mine price = 0 production cost =Rs.7115/	PART - VII (COST OF PRODUCTION)
9h	Scrutiny of Annual return on fixed assets	Given in the format	Not given	PART III, Sl.No. 2 (Royalty and Rents)
9k	Scrutiny of Annual return on mining machineries	Given in the format	Dozer-1 Nosand HEM Machinery -2 Nos	PART - V (General Geology &Mining) Sl.No.5

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 :

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines