

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

**MCDR INSPECTION REPORT**

**Chennai regional office**

**Mine file No :** TN/TNL/LST-88.MDS

**Mine code :** 38TMN15075

- (i) Name of the Inspecting : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Mr.Dhanajan Phatel Worke Manager  
Official with  
Designation
- (iv) Date of Inspection : 06/01/2020
- (v) Prev.inspection date : 20/10/2016

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MOOVIRUNTHALI(4.423HA)**
- (b) **Registration NO.** : **IBM/738/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : TAMIL NADU  
District : TIRUNELVELI  
Village : MOOVIRUNTHALI  
Taluka : SANKARAN KOVIL  
Post office : MOOVIRUNTHALI  
Pin Code :  
FAX No. : 0265-2333755  
E-mail : tvelliaccount@20microns.co  
Phone : 09500997031
- (f) Police Station : Moovirunthalai
- (g) First opening date : 15/10/2004
- (h) Weekly day of rest : SUN
2. Address for : MOOVIRUNTHALI VILL.  
correspondance : SANKARANKOIL TK.  
TIRUNELVELI DT.
3. (a) Lease Number : TMN0904
- (b) Lease area : 4.42
- (c) Period of lease : 20
- (d) Date of Expiry : 11/07/2024
4. Mineral worked : LIME KANKAR Main

## 5. Name and Address of the

Lessee : 20 MICRONS LTD  
307/308, ARUNDEEP COMPLEX  
RACE COURSE SOUTH BARODA-15  
AHMEDABAD GUJARAT  
Phone:  
FAX :

Owner : M/S 20 MICRONS LTD  
307/308, ARUNDEEP COMPLEX  
RACE COURSE SOUTH BARODA-  
15. AHMEDABAD GUJARAT  
Phone:  
FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27/02/2004
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	12/10/2012
		Mining Scheme rule 12 MCDR1988	04/06/2014

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	1	Not carried out	2014-15 to 2018-19, 8 Nos of BH proposed But not carried out.
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	NIL	Exploration need to prove the depth extencen
1e	Balance reserve as on 01/04/20	---	111 - 418234tons 221 - 1073540tons (As per MS-1056 - 2014-15- 2018-19)	nil
1f	General remarks of inspecting officers on geology, exploration etc	----	---	Addition exploration proposed in the ROMP period 2020-21 to prove the depth extention

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	pit -1	Not working	Mine not working
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	1.5 mts	NIL	No top soil generation
2c	Stripping ratio or ore to OB ratio	1:1.00	NIL	Mine not working
2d	Quantity of topsoil generation in m3	NIL	NIL	Mine not working

2e	Quantity of overburden generation in m3	NIL	NIL	Mine not working
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	----	Mine not working, Inspection carried out for ROMP

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	Mine was temporarily discontinued.
3b	Quantity of ROM mineral production proposed	50310	NIL	Mine not working
3c	Recovery of sailable/usable mineral from ROM production	30186	NIL	Mine not working
3d	Quantity of mineral reject generation	20124	NIL	Mine not working
3e	Grade of mineral rejects generation and threshold value declared.	NIL	Not applicable	NIL
3f	Quantity of sub grade mineral generation.	NIL	NA	NIL
3g	Grade of sub grade mineral generation	NIL	NA	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	NA	NIL

3j	Provision of drilling and blasting in mineral benches	proposed	NIL	Mine not working
3k	Provision of mining machineries in mineral benches	Tractor mounted Compressor(Jackhammer)	NIL	Mine not working
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB-1.5 mts height Mineral 5.0 mts height	NIL	Mine not working
3m	Total area covered under excavation/pits	1.50.00	---	Mine not working
3n	Ore to OB ratio for the pit/mine during the year.	1:1.00	NIL	Mine not working
3o	Total area put in use under different heads at the end of year	--	2.79 HA	----
3p	Production of ROM mineral during the last five year period as applicable	2015-16 30032 2016-17 30032 2017-18 30242 2018-19 30186	2015-16 1023 2016-17 1188 2017-18 NIL 2018-19 NIL 2019-20 NIL	Mine was temporarily discontinued from 2017.
3q	General remarks of inspecting officers on method of mining etc.	----	----	Mine is not working.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Not observed	Mine was temporarily discontinued
4b	Location of topsoil, OB and mineral reject dumps	Top soil & Waste dump located Eastern side lease boundary	Top soil & Waste dump located Eastern side lease boundary	Mine not working

4c	Number of dumps within lease area and outside of lease area	3	3	Mine not working, existing dump
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	(i)Top soil &(ii) Waste dump (iii)Side burden are located Eastern side lease boundary	-----	Mine not working
4e	Number of active and alive dumps.	3	3	Mine not working
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	---	---	Mine not working

#### 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	Mine was temporarily discontinued from 2017
5b	Area under backfilling of mined out area	NIL	NIL	Mineral not fully exhaust
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.	----	---	Mine was temporarily discontinued from 2017

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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	Not Submitted	Mine was temporarily discontinued from 2017
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	NIL	NIL	NIL
6d	No. of saplings planted during the year	NIL	NIL	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	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	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	Not at this stage
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	Mineral not fully explored
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	Mineral not fully explored
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	----	Mine not working
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	---	Mine was no working

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	NIL (2018-19)	NIL	Mine was temporarily discontinued from 2017
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	NIL	Mine not working
7c	Different grade of mineral sorted out at mines.	NIL	NA	No Different grade
7d	Any beneficiation process at mines .	NIL	NA	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	Mine not working

## Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	Mine was temporarily discontinued from 2017
8b	Concurrent use or storage of topsoil	YES	---	Mine not working
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NIL	nil	Mine not working
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	Mine not working

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	Mine not working
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	NIL	NIL
8g	Survival rate	70%	---	Mine not working
8h	Water sprinkling on roads to control airborne dust	PREOPOSED	NIL	Mine not working
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	----	Mine was temporarily discontinued from 2017

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR &Monthly rtetun not submite since 2017	NIL	AR &Monthly rtetun not submite since 2017
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NIL	NIL	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	NIL	NIL	NIL
9d	Scrutiny of Annual return on afforestation	NIL	NIL	NIL

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NIL	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NIL	NIL	NIL
9h	Scrutiny of Annual return on fixed assets	NIL	NIL	NIL
9k	Scrutiny of Annual return on mining machineries	NIL	NIL	NIL

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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 :**

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines