

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/TNL/LST-4 MDS

**Mine code :** 38TMN31008

- (i) Name of the Inspecting : **M017** ) **Matiul Islam**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr. K.SARAVANAN, (DGM-Mines)  
Official with  
Designation
- (iv) Date of Inspection : 09/07/2023
- (v) Prev.inspection date : 06/06/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SIVALARPATTI(GO.382)**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : TAMIL NADU  
District : THOOTHUKUDI (TUTICORIN)  
Village : SIVALARPATTI  
Taluka : VILATHIKULAM  
Post office : PUDUR  
Pin Code : 628905  
FAX No. :  
E-mail : [pjb@ramcocements.co.in](mailto:pjb@ramcocements.co.in)  
Phone :
- (f) Police Station : R R NAGAR
- (g) First opening date : 14/09/1983
- (h) Weekly day of rest : SUN
2. Address for : SIVALARPATTI VILL  
correspondance : VILLATHIKULAM TK  
TUTICORIN DT
3. (a) Lease Number : TMN0224
- (b) Lease area : 7.34
- (c) Period of lease : 20
- (d) Date of Expiry : 12/10/2034
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : M/S LOVELY CHEMICALS  
 43-B,VELAYUTHAM ROAD  
 SIVAKASI VIRUDHUNAGAR  
 TAMIL NADU  
 Phone:20141/27241  
 FAX :04562 - 23141

Owner : K.BALAMURUGAN,  
 M/S LOVELY CHEMICALS 43-B,  
 VELAYUTHAM ROAD SIVAKASI  
 THOOTHUKUDI (TUTICORIN)  
 TAMIL NADU  
 Phone: 04562 - 20141/2  
 FAX : 04562 - 23141

## Mining Engineer

Name : R.NAREN,Full Time  
 Qualification : B.TECH MINING  
 Appointment/ : 30/12/2020  
 Termination date

## Geologist

Name : C KARUNKARAN,Full Time  
 Qualification : Msc GEOLOGY  
 Appointment/ : 30/12/2020  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	18/01/1989
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	01/12/2014
		MP review under 17(1) MCR 2016	07/11/2017
		MP modif under 17(3) MCR 2016	20/07/2021

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Potentially mineralised area already fully explored upto G1 level
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-do-
1e	Balance reserve as on 01/04/20	124465 Tons	124465 Tons	As on 01.04.2023
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The geology & exploration of the lease were found satisfactory.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML-22 to 24 Above + 53 RL	ML-22 to 24 Above + 53 RL	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed	Separate benches maintained	-do-
2c	Stripping ratio or ore to OB ratio	1:0	1:0	-do-
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation in m3	Nil	Nil	Nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The development of the pit w.r.t. type of deposit was found satisfactory.
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ML - 22 to 24	ML - 22 to 24	As proposed
3b	Quantity of ROM mineral production proposed	23449 Tonnes	23437.24 Tonnes	-do-
3c	Recovery of sailable/usable mineral from ROM production	90%	100%	Entire ROM consumed by blending
3d	Quantity of mineral reject generation	10%	Nil	-do-
3e	Grade of mineral rejects generation and threshold value declared.	<35 CaO	Nil	-do-
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	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	Deep hole drilling and blasting is proposed.	Deep hole drilling and blasting is practiced. Holes are drilled upto 10 m depth with a spacing of 3.5-4 m. Hole dia 115 mm.	Controlled blasting by using Slurry Cartridge, NONEL & Electronic Detonators.
3k	Provision of mining machineries in mineral benches	Back hoe-0.9 Cu.M-1, Tipper-12 Cu.M-2 Nos	Back hoe-0.9 Cu.M-1, Tipper-12 Cu.M-2 Nos	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height is 9m and width 9-12 m. proposed.	Bench height is 9m and width 9-12 m. maintained.	Suitable for method of mining proposed in ROMP
3m	Total area covered under excavation/pits	1.87 Ha	1.85 Ha	Within limit
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	As proposed
3o	Total area put in use under different heads at the end of year	7.017 Ha	3.20 Ha	Within limit
3p	Production of ROM mineral during the last five year period as applicable	2019-20=21,103 2020-21=21,616 2021-22=22,267 2022-23=23,449 2023-24=50,000	2019-20= Nil 2020-21= Nil 2021-22=22,248.92 2022-23=23,437.24 2023-24=3,686.30 (upto June'2023)	Within limits
3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining was found satisfactory.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No TS/OB/MR generation envisaged for the year	No TS/OB/MR generated during the year	Nil

4b	Location of topsoil, OB and mineral reject dumps	NA	NA	Nil
4c	Number of dumps within lease area and outside of lease area	2 Nos (within ML)	2 Nos (within ML)	As proposed
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside Ultimate Pit Limit	Outside Ultimate Pit Limit	-do-
4e	Number of active and alive dumps.	2	2	-do-
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.	No proposal	Pre-existing garland drain maintained around the dump.	Nil
4i	Length of Retaining wall or garland drain all along dumps	NA	500mx2mx1m	Nil
4j	Number of settling ponds	No proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	No waste generation was envisaged or done during the year. Waste dump management was 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.	No backfilling proposed	Nil	Mineral not yet exhausted in active benches.

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.	-	-	No Backfilling or Reclamation proposed or carried out during the year.

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).	Periodical submission proposed	Submitted on time	Submitted along with AR
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	852 Nos	875 Nos	As proposed
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.71 Ha	0.71 Ha	-do-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation	Plantation with 875 Nos of Neem, Pungai & Vagai	So far 1375 No. of Saplings covered 0.71 Ha. in the Virgin & Dump area.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Monitoring proposed	Periodical Monitoring carried out	All parameters within norms
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PCMP Compliance & Progressive Closure Operations were found satisfactory.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting proposed	No sorting carried out	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	Nil
7c	Different grade of mineral sorted out at mines.	NA	NA	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	No issues observed with mineral conservation or beneficiation. Entire ROM generated is consumed by blending.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Topsoil removal envisaged for the year	No topsoil removed during the year	Nil

8b	Concurrent use or storage of topsoil	NA	NA	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed	Separate dumping carried out	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	All benches still active.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	-do-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	852 Nos sapling plantation proposed for the year	875 Nos sapling planted during the year	As proposed
8g	Survival rate	Not specified	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Deployment of water sprinkler proposed	10 KL Water Tanker deployed	As proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The aesthetic beauty in and around mines area was found satisfactory.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted in time	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri. Godavarthy Umasankar (Mining Engineer) & Shri. C.Karunakaran (Geologist)	Given in Part I, Sl 7-9	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current workings-1.85 Ha, Waste disposal-1.34 Ha, Others (Green belt & Undisturbed land)-4.15	Given in Part I, Sl 12	Nil
9d	Scrutiny of Annual return on afforestation	875 Nos Saplings planted	Given in Part V, Sl 5	Nil
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	Production - 23437.24 te	Given in Part VI, Sl 1	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs 566.60/-	Given in Part VI, Sl 2 & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Rs 2,96,51,617/-	Given in Part II A Capital Structure	Nil
9k	Scrutiny of Annual return on mining machineries	Back hoe-0.9 Cu.M-1, Tipper-12 Cu.M-2 Nos	Given in Part V, Sl 6	Nil

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(Matiul Islam)

Indian Bureau of Mines