

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/TNL/LST-34.MDS

Mine code : 38TMN29001

- (i) Name of the Inspecting : **043**) **T.PHALTHURAJHEN**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : P.JAGADISH BABU.(SGM -Mines)
Official with
Designation
- (iv) Date of Inspection : 28/11/2022
- (v) Prev.inspection date : 19/01/2009

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SIVALARPATTI**
- (b) **Registration NO.** : **IBM/638/2011**
- (c) Category : B Manual
- (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
Phone : 04562256201
- (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 : TMN0189
- (b) Lease area : 7.66
- (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

6. Date of approval of Mining	:	FMCP under 23C(1)	09/04/2008
Plan/Scheme of Mining		FMCP under 23C(1)	09/04/2008
		Mining Scheme rule 12 MCDR1988	23/11/2011
		Mining Scheme rule 12 MCDR1988	23/11/2011
		MP modif under MCR 1960	02/12/2014
		MP review under 17(1) MCR 2016	08/05/2017
		MP modif under 17(3) MCR 2016	20/07/2021
		MP review under 17(1) MCR 2016	29/11/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	The area was fully explored
1b	Exploration over lease area for geological axis 1 or 2	3.29 ha	3.29 ha	The lease area (7.665 ha) is fully explored.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA.	The area fully explored by Lovely chemicals..
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Na	The mineralised area fully expored.
1e	Balance reserve as on 01/04/20	0.240 Mil.Tones	0.240 Mil.Tones	-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	ML-20 TO 22	ML-20 TO 22	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	ML-20 TO 22 benches -2021-22 OB-2, Limestone-1	ML-20 TO 22 benches - 2021-22 OB-2, Limestone-1	separate benches are maintained in OB, and minerals.
2c	Stripping ratio or ore to OB ratio	1:1.59	1:1.30	The shortfall in development Will be adjusted in the subsequent year.
2d	Quantity of topsoil generation in m3	NIL	-	The short in development will be adjusted in the subsequent year.
2e	Quantity of overburden generation in m3	14645	14331	The shortfall will be adjusted in the subsequent year.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The shortfall in Development will be adjusted in the subsequent year.
----	---	---	---	---

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ML-20 TO22	ML-20 TO 22	Modification to the Approved mining Plan Submitted on 06-01-2021.
3b	Quantity of ROM mineral production proposed	33338 Tonnes .	33336.44 Tonnes	Modification to the Approved Mining plan submitted on 06-01-2021.
3c	Recovery of sailable/usable mineral from ROM production	90%	Nil	Modification to the Approved Mining Plan submitted on 06-01-2021.
3d	Quantity of mineral reject generation	NIL	NA	no Benefician plant within ML.
3e	Grade of mineral rejects generation and threshold value declared.	>35 Cao.	>35 Cao	Threshold value maintained.
3f	Quantity of sub grade mineral generation.	NIL	NA	NO Subgrade mineral generation.
3g	Grade of sub grade mineral generation	NIL	NA	No subgrade mineral generation.
3h	Manual / Mechanised method adopted for segregating from ROM	mechanized methods Pproposed.	NIL	Modification to the Approved Mining plan submitted on.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal given	No proposal during the plan period. 06.01.2021.	Modification to the approved Mining plan submitted on 06.01.2021.

3j	Provision of drilling and blasting in mineral benches	deep hole drilling and blasting is proposed and blasting with delay detonators	Nil.	06.01.2021.
3k	Provision of mining machineries in mineral benches	yes	bench height is facilitating for moving of mining machinery.	bench height is 9 m and Width 9 12 mts. maintained .
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	Suitable height maintained as proposed.	Nil.
3m	Total area covered under excavation/pits	2.00 ha	2.00 ha	nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.59	1:1.30	The shortfall in development will be adjusted in in the subsequent year.
3o	Total area put in use under different heads at the end of year	7.665 ha	5.610 ha	Modification to approved Mining plan submitted on 06-01-2021.
3p	Production of ROM mineral during the last five year period as applicable	2018-19=58514, 2019-20=61200, 2020-21=61884, 2021-22=33338, 2022-23=48805.	2018-19=141.68, 20=NIL, 2020-21=NIL, 2021-22=33336.44 ,2022-23=15910.32 (UP Oct=2022).	Less production due to delay in obtaining of Transfer of Mining lease.
3q	General remarks of inspecting officers on method of mining etc.	-	-	satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Existing dump to be used	Existing dump to be used	As per proposal.

4b	Location of topsoil, OB and mineral reject dumps	OB Dump ML-15.50 to ML-16.75 , Location near N918,55.96: , E780909.77"	As per proposal.	As per proposal.
4c	Number of dumps within lease area and outside of lease area	2 No within ML	2 No within ML	AS Per proposal.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside Ultimate pit limite	outside Ultimate pit limite	Nil.
4e	Number of active and alive dumps.	2	2	As per proposal..
4f	Number of dead dumps.	-	-	Nil.
4g	Number of dumps established.	-	-	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	No proposal.
4i	Length of Retaining wall or garland drain all along dumps	NIL	NIL	Proposal.
4j	Number of settling ponds	NIL	NIL	NO proposal.
4k	Specific comments of inspecting officer on waste dump management	-	-	Nil

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	No backfilling proposal during the plan period 2021-22.	No proposal.
5b	Area under backfilling of mined out area	NIL	NA	NO proposal

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	No Top soil generation.
5d	Total area fully reclaimed and rehabilitated	NIL	NA	No proposal.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NIL	NA	NIL.

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).	Periodically submitted	Periodically submitted	All Benches are still Active.
6b	Area available for rehabilitation (ha) .	NIL	NA	All benches are still Active.
6c	afforestation done (ha).	NIL	NA	All benches are still Active.
6d	No. of saplings planted during the year	NIL	NA	All benches are still Active.
6e	Cumulative no .of plants	NILL	NA	All benches are still active.
6f	Any other method of rehabilitation	NIL	Na	All benches are still Active.
6g	Cost incurred on watch and care during the year	NL	NA	All benches are still Active.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NA	All benches are still Active.

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NIL	NA	ALL benches are still Active.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NA	All benches are still Active.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NA	All benches are still Active.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1800 nos.	1800 nos	Location of the Afforested area as follows, Lat N9*1855", long: E78*0908"
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.49 ha	1.50 ha	Location of the affrested area as follows Lat:N9*1855", Long: E78*09 08.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	plantation with 1800 nos of neem, pungai & Vagai.	so far 1800 No of saplings covered 1.50 Ha ,in the Virgin area.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodically monitored	periodically monitored by M/S .Creative Engineers & consultants chennai.	Environmental monitoring Report periodically submitted to Indian bureau Of Mines.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NIL	NIL	NIL

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting of ROM grade wise at pit head.	NIL	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No separation mine head at mine head	mechanical method adoted	ROM will be transported to crusher located outside ML having colour based sorting technology is being used for beneficiation of Limestone.
7c	Different grade of mineral sorted out at mines.	NIL	NIL	-
7d	Any beneficiation process at mines	NIL	NIL	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	NIL

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	2470 T	2359 T	Top soil utilized for plantation purse.
8b	Concurrent use or storage of topsoil	NIL	NA -	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB Dump ml- 15.50 to ML- 16.75 location near: N9 1855.96", E78 09 09.77"	As per proposal	A per proposal.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NA	Not at this stage
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	1.49 ha	1.50 ha	so far 1800 No .of saplings covered 1.50 ha in the Virgin area
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1800	1800 nos	so far 1800 nos. of saplings covered 1.50 ha in the Virgin area.
8g	Survival rate	95%	95%	95% of survival Rate.
8h	Water sprinkling on roads to control airborne dust	10KL Water Tanker	As per proposal	Water tanker will be used for Dust Suppression.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	submitted	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri.D.Johnson (mining Engineer) & Shri. C. Karunakaran (geologist)	Shri. godhavary uma shanger (Mining Engineer) & shri. C.Karunakaran(Geologist)	Form H submitted to indian bureau of mines ,chennai on15.07.2022.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	details given in Annual return 2021-22	Checked and found satisfactory.	Nil
9d	Scrutiny of Annual return on afforestation	1800 Nos ,sapplings planted	As per file return.	Neem Pungai & vagai.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	No mineral rejected within ML.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	DETAILS FURNISHED IN THE ANNUAL RETURN -2021-22	As per filled returned	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	details furnished in the Annual Returnl 2021-22	As per filled return	Nil
9h	Scrutiny of Annual return on fixed assets	Details given	29772800 is shown as value of fixed assets	Satisfactory.
9k	Scrutiny of Annual return on mining machineries	Details furnished in the annual returns 2021-22.	BACK HOE-0.900 CUM, -1, NON ELECTRICAL FOR OPEN CAST MINING, TIPPER-12000 CUM-2 NON ELECTRICAL FOR OPEN CAST MINING	NIL

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 :

(T.PHALTHURAJHEN)

Indian Bureau of Mines