

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/PT/LST-30.MDS

**Mine code :** 38TMN24030

- (i) Name of the Inspecting : S011 ) SALIL SANDIP KUJUR  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR J RAVI -GEOLOGIST & MR VENKATARAMAKRISHNA-DGM MINE  
Official with  
Designation
- (iv) Date of Inspection : 27-SEP-20
- (v) Prev.inspection date : 03-JAN-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : ALATHIYUR (N)
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : PERAMBALUR
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. : 04329-248303
- E-mail : alr@madras cements.co.in
- Phone : 04329-248305, 248306
- (f) **Police Station** : DALAVOI
- (g) **First opening date** : 31-MAR-95
- (h) **Weekly day of rest** : SUN
2. **Address for** : GENERAL MANAGER (MINES)  
**correspondance** MADRAS CEMENT LIMITED,  
ALATHIYUR, DALAVOI, TEH-SENDURAI, DISTT- ARIYALU
3. (a) **Lease Number** : TMN0740
- (b) **Lease area** : 57.12
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 11-APR-29
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : MADRAS CEMENTS LIMITED  
 Auras Corporate Center Vth  
 Floor, 98 A Dr.Radha  
 Krishnan salai, Mylapore  
 CHENNAI CITY TAMIL NADU  
 Phone:044-28478666  
 FAX :044-28478676

Owner : P.R.RAMA SUBRAMANYA RAJA  
 AURAS CORPORATE CENTRE  
 VFLOOR,98A,RADAKRISHNAN R  
 MYLAPORE,CHENNAI CHENNAI  
 CITY TAMIL NADU  
 Phone: 044-8555815  
 FAX : 044-830248

Agent : S SHANMUGAM  
 Madras Cements Ltd, TALUKA-  
 Sendurai ARIYALUR TAMIL  
 NADU  
 Phone: 04329-248305248306  
 FAX : 04329-248303

## Mining Engineer

Name : M.SURESH BABU,Full Time  
 Qualification : B.E Mining Engineeing  
 Appointment/ : 01-JAN-12  
 Termination date

## Geologist

Name : J.RAVI,Full Time  
 Qualification : M.Sc Geology  
 Appointment/ : 16-MAR-07  
 Termination date

## Manager

Name : BP.SRIKANTH  
 Qualification : B.E Mining Engineering  
 Appointment/ : 25-OCT-18  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	06-JAN-99
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	22-JUN-04
		Mining Scheme rule 12 MCDR1988	28-AUG-09
		Modif.approved Mining Scheme	08-OCT-12
		Mining Scheme rule 12 MCDR1988	30-JUN-14
		MP review under 17(1) MCR 2016	04-DEC-18

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	9 borehole drilled with total meterage of 439.32 m.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NIL	Mine fully explored G-1 Level
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	NIL
1e	Balance reserve as on 01/04/20	17,08,444	17,08,444	NA
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	NIL	NIL	As per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Topsoil - 1, OB - 2, Mineral - 4	Topsoil - 1, OB - 2, Mineral - 4	Formed as per rule.
2c	Stripping ratio or ore to OB ratio	1 : 0.32	1 : 0.78	As per Proposed production qty not achieved due to quality problem.
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	35,022	25,056	As per proposal

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	SATISFACTORY
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	As per proposal
3b	Quantity of ROM mineral production proposed	1,78,524	57,465	Total ROM is Used.
3c	Recovery of sailable/usable mineral from ROM production	1,78,524	57,465	100% Recovery
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	No Subgrade Mineral Generation
3g	Grade of sub grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Mechanised method is used.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	na	na	Beneficiation Study is Not Required -nil
3j	Provision of drilling and blasting in mineral benches	nil	nil	nil

3k	Provision of mining machineries in mineral benches	yes	Shovel-1, Tipper-4,	as per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 5m, Width - 6m	Height - 5m, Width - 6m	Benches suitable for the method of mining
3m	Total area covered under excavation/pits	9.023	9.023	As per proposal
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.32	1 : 0.78	As per Proposed production qty not achieved due to quality problem.
3o	Total area put in use under different heads at the end of year	Mined out land - 9.023 Ha Dump- 3.76 Ha Greenbelt - 7.05 Ha Others- 7.477 Ha	Mined out land - 9.023 Ha Dump- 3.76 Ha Greenbelt - 7.05 Ha Others- 7.477 Ha	As per proposal
3p	Production of ROM mineral during the last five year period as applicable	2015-16 73,000 2016-17 73,000 2017-18 73,000 2018-19 57,000 2019-20 1,79,550	2015-16 57,115 2016-17 51,566 2017-18 35,671 2018-19 8,997 2019-20 1,51,737	all within proposal.
3q	General remarks of inspecting officers on method of mining etc.	-	-	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)	Topsoil are dumped separately	Topsoil are dumped separately	Separately stacked

4b	Location of topsoil, OB and mineral reject dumps	Topsoil ML-0 to ML-2 200 to 400	Topsoil ML-0 to ML-2 200 to 400	as per plan.
4c	Number of dumps within lease area and outside of lease area	Top soil - 1	Top soil - 1	Dumped within lease area as per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Topsoil ML-0 to ML-2 200 to 400	Topsoil ML-0 to ML-2 200 to 400	No additional dump is proposed.
4e	Number of active and alive dumps.	Top Soil - 1	Top Soil - 1	No alive dumps are there.
4f	Number of dead dumps.	1	1	nil
4g	Number of dumps established.	1	1	Old dumps are stabilized.
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	yes	As per proposal
4i	Length of Retaining wall or garland drain all along dumps	350 x 3 x 2 mtrs	350 x 3 x 2 mtrs	Garland drain all along dump
4j	Number of settling ponds	1	1	Existing settling pond de-silted.
4k	Specific comments of inspecting officer on waste dump management	-	-	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.	All minerals are mined & taken before starting of Backfilling	All minerals are mined & taken before starting of Backfilling	nil, as Full extraction is adopted.
5b	Area under backfilling of mined out area	na	na	nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	yes	yes	Top soil stock for future use of afforestation and reclamation.
5d	Total area fully reclaimed and rehabilitated	nil	nil	nil, No backfilling proposal during the year.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	satisfactory.

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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes	yes	Submitted to IBM in time
6b	Area available for rehabilitation (ha) .	No proposal for the year	No proposal for the year	Mine not Excavated fully.
6c	afforestation done (ha).	nil	150 sapling planted along the boundary.	nil
6d	No. of saplings planted during the year	-	150	Plantation carried out as per the proposal.
6e	Cumulative no .of plants	13,523	13,673	For entire mine area boundary.
6f	Any other method of rehabilitation	nil	nil	nil
6g	Cost incurred on watch and care during the year	10,14,225	10,14,225	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	no backfilling proposed	nil	nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	na	na	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	na	na	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	na	na	no backfilling proposed and mineral not exhausted till date.
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	no waste land available	no waste land available	nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	nil	no waste land available	no waste land available
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	nil	nil	nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	yes, done quarterly	All the monitored values are within limit. Quarterly Reports submitted to IBM regularly.



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	satisfactory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	nil	nil	nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	nil	na	na, no grade wise sorting in mines.
7c	Different grade of mineral sorted out at mines.	nil	nil	na, no grade wise sorting in mines.
7d	Any beneficiation process at mines	nil	nil	nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	satisfactory

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	yes	As per the proposal
8b	Concurrent use or storage of topsoil	nil	nil	Top soil storage for future use.

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only backfilling is done	Only backfilling is done	As per proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling is proposed	As per the proposal,	nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	na	na	nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	13,523	13,673	nil
8g	Survival rate	90%	80%	nil
8h	Water sprinkling on roads to control airborne dust	yes	Water sprinkling is being done	Water sprinkling is being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	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	Submitted for the year 2019-20	Submitted for the year 2019-20	Submitted in time

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Appointed	S. Durai Murugan, & Avvaru Gopi Sesi Kiran,	nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part - i. Sl no.12	Given in Part - i. Sl no.12	nil
9d	Scrutiny of Annual return on afforestation	Provided in Annual Return	Given in Part - V. Sl no.4.4	as per Rule
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	nil	nil,no rejects
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil	no stock is maintained at mines	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 :**

(SALIL SANDIP KUJUR)

Indian Bureau of Mines