

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/PBR/LST-58/MDS

**Mine code :** 38TMN38007

- (i) Name of the Inspecting : **M017** ) **Matiul Islam**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Ramesh.S GM(Mines) / R Ravikumar DGM(Mines)  
Official with  
Designation
- (iv) Date of Inspection : 06/09/2022
- (v) Prev.inspection date : 15/09/2021

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PUDUPALAYAM(37HA)**
- (b) **Registration NO.** : **IBM/170/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : TAMIL NADU  
District : ARIYALUR  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : 044-28291558, 04329-247726  
E-mail : mayilrajan.m@chettinadcemei  
Phone : 044-28292727, 04329-249770
- (f) Police Station : Vikramangalam, ARIYALUR
- (g) First opening date : 11/01/1989
- (h) Weekly day of rest : SUN
2. Address for : RANI SEETHAI HALL BUILDING  
correspondance : POST BOXNO.748, 603-ANNA SALAI  
CHENNAI-600006
3. (a) Lease Number : TMN1037
- (b) Lease area : 37
- (c) Period of lease : 20
- (d) Date of Expiry : 08/02/2009
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : CHETTINAD CEMENT CORPORATION LIMITED  
 4TH FLOOR, RANI SEETHAI  
 HALL BLDG 603, ANNA SALAI  
 CHENNAI CITY TAMIL NADU  
 Phone:044-28292727, 42149955  
 FAX :044 - 28291558

Owner : Mohan Muthukaruppan  
 M/s. Chettinad Cement Corpn  
 (P) Ltd 4th Floor, Sigappi  
 Aachi Building 18/3  
 RukmaniLakshipathyRoad, Egmo  
 re CHENNAI CITY TAMIL NADU  
 Phone:  
 FAX :

Agent : V. KRISHNAN  
 Chettinad Cement Corp Pvt  
 Ltd Ariyalur Works,  
 Keelapalur Post Ariyalur  
 Taluk & Distt ARIYALUR  
 TAMIL NADU  
 Phone: 9788858216  
 FAX :

## Mining Engineer

Name : M.RAMESH, Full Time  
 Qualification : BE Mining  
 Appointment/ :  
 Termination date

## Geologist

Name : M.L.BALASHANMUGAM, Full Time  
 Qualification : MSC(GEOLOGY)  
 Appointment/ :  
 Termination date

|                               |   |                                |            |
|-------------------------------|---|--------------------------------|------------|
| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 19/10/2006 |
| Plan/Scheme of Mining         | : | Renewal under rule 24 MCR1960  | 11/03/2008 |
|                               | : | Modif.of approved Mining Plan  | 09/10/2009 |
|                               | : | Mining Scheme rule 12 MCDR1988 | 24/06/2014 |
|                               | : | MP review under 17(1) MCR 2016 | 09/04/2019 |

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

## Exploration :

| Sl.No. | Item  | Proposals    | Actual work  | Remarks  |
|--------|---|--------------|--------------|--|
| 1a     | Backlog of previous year  | Nil          | Nil          | Mine already fully explored upto G1 level                      |
| 1b     | Exploration over lease area for geological axis 1 or 2              | Nil          | 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                                      | 7,724 tonnes | 8,142 tonnes | Nil  |
| 1f     | General remarks of inspecting officers on geology, exploration etc  | -            | -            | Violation pointed out for non-submission of Forms I & J to IBM |

## Development :

| Sl.No. | Item   | Proposals   | Actual work | Remarks                                       |
|--------|--|---|-------------|---|
| 2a     | Location of development w.r.t. lease area                      | 11° 5'49.01"N to 11° 5'49.10"N<br>79° 8'48"E to 79° 8'55.95"E | Nil         | No mining carried out during the year 2021-22 |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | OB & Topsoil - Nil<br>Limestone- III Bench                    | Nil         | -do-  |
| 2c     | Stripping ratio or ore to OB ratio                             | 1:0   | Nil         | -do-  |
| 2d     | Quantity of topsoil generation in m3                           | Nil   | Nil         | -do-  |
| 2e     | Quantity of overburden generation in m3                        | Nil   | Nil         | -do-  |

|    |   |   |   |   |
|----|---|---|---|---|
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | - | - | No mining carried out during the year 2021-22 |
|----|---|---|---|---|

### Exploitation:

| Sl.No. | Item  | Propasals | Actual work | Remarks                                       |
|--------|---|-----------|-------------|---|
| 3a     | Number of pit proposed for production   | 1         | Nil         | No mining carried out during the year 2021-22 |
| 3b     | Quantity of ROM mineral production proposed   | 4000 Ts   | Nil         | -do-  |
| 3c     | Recovery of sailable/usable mineral from ROM production   | 100%      | Nil         | -do-  |
| 3d     | Quantity of mineral reject generation   | Nil       | Nil         | -do-  |
| 3e     | Grade of mineral rejects generation and threshold value declared.                               | NA        | Nil         | -do-  |
| 3f     | Quantity of sub grade mineral generation.   | Nil       | Nil         | -do-  |
| 3g     | Grade of sub grade mineral generation   | NA        | NA          | -do-  |
| 3h     | Manual / Mechanised method adopted for segregating from ROM                                     | Nil       | Nil         | -do-  |
| 3i     | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Nil       | Nil         | -do-  |

|    |  |  |  |                                      |
|----|--|--|--|--------------------------------------|
| 3j | Provision of drilling and blasting in mineral benches  | Non-conventional mining without drilling & blasting proposed   | Nil  | -do-                                 |
| 3k | Provision of mining machineries in mineral benches   | Excavator -1<br>(1Cu,m )<br>Rock Breaker -<br>1<br>Tippers- 9<br>Nos   | Nil  | -do-                                 |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Bench Height -<br>5 m<br>Bench Width -5<br>m   | Bench Height -5 m<br>Bench Width -5 m  | -do-                                 |
| 3m | Total area covered under excavation/pits   | 26 Ha  | 26 Ha  | -do-                                 |
| 3n | Ore to OB ratio for the pit/mine during the year.  | 1:00   | Nil  | -do-                                 |
| 3o | Total area put in use under different heads at the end of year                                       | 37 Ha  | 37 Ha  | -do-                                 |
| 3p | Production of ROM mineral during the last five year period as applicable                             | 2017-18-<br>77883Ts<br>2018-19-<br>81943Ts<br>2019-20-<br>280000 Ts<br>2020-21-<br>4000Ts<br>2021-22- 4000<br>Ts | 2017-18-29906 Ts<br>2018-19- 93273 Ts<br>2019-20- 279818 Ts<br>2020-21- 3039.1Ts<br>2021-22- Nil | -do-                                 |
| 3q | General remarks of inspecting officers on method of mining etc.                                      | -  | -  | No mining carried out during 2021-22 |

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**Solid Waste Management - Dumping:**


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| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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|    |  |   |     |   |
|----|--|---|-----|---|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)   | No Topsoil/OB/MR removal proposed during the year | Nil | No mining carried out during the year             |
| 4b | Location of topsoil, OB and mineral reject dumps                   | NA  | NA  | Nil   |
| 4c | Number of dumps within lease area and outside of lease area        | Nil   | Nil | Nil   |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | Nil   | Nil | Nil   |
| 4e | Number of active and alive dumps.                                  | Nil   | Nil | Nil   |
| 4f | Number of dead dumps.  | 1   | 1   | Nil   |
| 4g | Number of dumps established.                                       | 1   | 1   | Stabilised with afforestation                     |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | No proposal                                       | Nil | Nil   |
| 4i | Length of Retaining wall or garland drain all along dumps          | NA  | NA  | Nil   |
| 4j | Number of settling ponds   | No proposal                                       | Nil | Nil   |
| 4k | Specific comments of inspecting officer on waste dump management   | -   | -   | The waste dump management was found satisfactory. |

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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. | Mineral proposed to be fully extracted before backfilling | Nil         | No mining carried out during the year 2021-22 |

|    |   |                              |     |  |
|----|---|------------------------------|-----|--|
| 5b | Area under backfilling of mined out area  | Nil                          | Nil | -do-   |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | No Top Soil removal proposed | Nil | -do-   |
| 5d | Total area fully reclaimed and rehabilitated  | No proposal for the year     | Nil | -do-   |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc.                | -                            | -   | No backfilling or reclamation activity was 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). | -   | Submitted in time                               | Nil     |
| 6b     | Area available for rehabilitation (ha) .                                     | Nil   | Nil   | Nil     |
| 6c     | afforestation done (ha).   | 1.5 Ha  | 1.01 Ha   | Nil     |
| 6d     | No. of saplings planted during the year                                      | 3,800 nos proposed                                    | 3,920 nos planted                               | Nil     |
| 6e     | Cumulative no .of plants   | 11,400 nos proposed in approved document till 2021-22 | 23,570 nos planted till 2021-22 since inception | Nil     |
| 6f     | Any other method of rehabilitation   | Nil   | Nil   | Nil     |
| 6g     | Cost incurred on watch and care during the year                              | Rs 70,000/-   | Rs 70,000/-                                     | 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 | Nil |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)                       | Nil | Nil | Nil |
| 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)                                | Periodic Monitoring Proposed | Periodic Monitoring Carried out | All parameters within norms            |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | -                            | -                               | No mining carried out during the year. |

#### Mineral Conservation:

| Sl.No. | Item   | Proposals           | Actual work | Remarks   |
|--------|--|---------------------|-------------|---|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area                           | No sorting proposed | Nil         | 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 mining was carried out during the year 2021-22 |

#### Environment:

| Sl.No. | Item  | Proposals                     | Actual work | Remarks                          |
|--------|---|-------------------------------|-------------|----------------------------------|
| 8a     | Separate removal and utilization of topsoil (Rule 32) | Top Soil Removal not proposed | Nil         | No mining carried out in 2021-22 |

|    |   |  |   |  |
|----|---|--|---|--|
| 8b | Concurrent use or storage of topsoil  | Not proposed                               | Nil   | -do-   |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | No OB/Waste/Rejects/Fines removal proposed | Nil   | -do-   |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | No proposal                                | Nil   | -do-   |
| 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)                    | -  | 23,570 nos of saplings planted cumulatively | -do-   |
| 8g | Survival rate   | 90%  | 90%   | -do-   |
| 8h | Water sprinkling on roads to control airborne dust  | Proposed                                   | Nil   | -do-   |
| 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           | Manager<br>M.L.BALASHANMU<br>GAM<br>Mining Engineer in charge<br>G.BALAMURUGAN<br>Geologist in charge<br>M.L.BALASHANMU<br>GAM                | Manager & Mining Engineer Shri. E.Ganesha Moorthy<br>Geologist Shri.Anandha<br>Raja M.Sc | The previous Manager-cum-Geologist has retired |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Working - 26.00.00 Ha<br>Reclaimed & Rehabilitated - 4.50 Ha<br>Buildings & Roads - 4.90 Ha<br>Work done<br>Progressive Mine closure - 1.6 Ha | Given in Part I, Sec 12  | Nil  |
| 9d | Scrutiny of Annual return on afforestation  | 0   | Given in Part V, Sec 4.<br>Mining operations during the year                             | Nil  |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | Nil   | Given in Part V, Sec 4.<br>Mineral Rejects for Limestone                                 | Nil  |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                                      | Nil   | Given in Part VI, Sec 1  | Nil  |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | Nil   | Given in Part VII  | Nil  |
| 9h | Scrutiny of Annual return on fixed assets   | Rs 4,75,00,000/-  | Given in Part II A<br>(Capital Structure)  | Nil  |

|    |  |  |                      |     |
|----|--|--|----------------------|-----|
| 9k | Scrutiny of<br>Annual return on<br>mining<br>machineries | Type of<br>machinery<br>Capacity of<br>each unit<br>No.of units<br>Electrical/Non<br>-Electrical<br>(specify) Used<br>in<br>opencast/under<br>ground<br>(specify)<br>BACK HOE 0.000<br>CUM 0 Non<br>Electrical<br>Opencast | Given in Sec 5/6/8/9 | 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 |
| MCDR17             | Rule 34(2) | 21/09/2022    |                     |           |               |
| Rule 47            |            | 21/09/2022    |                     |           |               |
| Rule 48            |            | 21/09/2022    |                     |           |               |

**Date :**

**(Matiul Islam)**

Indian Bureau of Mines