

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

**MCDR INSPECTION REPORT**

**Chennai regional office**

**Mine file No :** TN/ALR/LST-20.MDS

**Mine code :** 38TMN38015

- (i) Name of the Inspecting : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.Sendilkumar.K- Mines Manager and Srithar. G - G  
Official with  
Designation
- (iv) Date of Inspection : 03/12/2019
- (v) Prev.inspection date : 26/02/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **REDDIPALAYAM-32.645-ML3**
- (b) **Registration NO.** : **IBM/441/2011**
- (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. : **04329 249253**
- E-mail : **sendilkumar.k@adityabirla.**
- Phone : **04329 249240**
- (f) **Police Station** : **VIKRAMANGALAM**
- (g) **First opening date** : **10/03/2006**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **REDDIPALAYAM PO**  
**correspondance** : **ARIYALUR TK&DT**
3. (a) **Lease Number** : **TMN0991**
- (b) **Lease area** : **43.4**
- (c) **Period of lease** : **30**
- (d) **Date of Expiry** : **24/04/2036**
4. **Mineral worked** : **LIMESTONE** **Main**

## 5. Name and Address of the

Lessee : ULTRATECH CEMENT LIMITED  
 POST-REDDIPALAYAM, TEHSIL-  
 ARIYALUR ARIYALUR TAMIL  
 NADU  
 Phone:  
 FAX :

Owner : JHANWAR.K.C  
 Ultra Tech Cement  
 Ltd.Aditya Birla S.K. Ahire  
 Marg, Worli, Mumbai.  
 GREATER BOMBAY MAHARASHTRA  
 Phone:  
 FAX :

Agent : RAJESH SANKAR  
 Reddipalayam Post, Ariyalur  
 Dist. ARIYALUR TAMIL NADU  
 Phone: 04329249240  
 FAX :

## Mining Engineer

Name : MR.SENTHIL KUMAR,Full Time  
 Qualification : B.E IN MINING  
 Appointment/ : 27/04/2017  
 Termination date

## Geologist

Name : G.SRITHAR,Full Time  
 Qualification : MSC (GEO)  
 Appointment/ : 02/04/2019  
 Termination date

## Geologist

Name : BALAMURUGAN.R.,Full Time  
 Qualification : MSC. GEOLOGIST  
 Appointment/ : 01/12/2017 01/04/2019  
 Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 02/07/2012  
 Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 23/02/2016

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

## Exploration :

| Sl.No. | Item  | Proposals | Actual work  | Remarks  |
|--------|---|-----------|--|--|
| 1a     | Backlog of previous year  | NIL       | NOT applicable                                       | Mine fully explored  |
| 1b     | Exploration over lease area for geological axis 1 or 2              | NIL       | Fully explored under G1 level                        | Sufficient drilling has been undertaken by drilling 35 nos. of core drilling for a total metreage of 938.03m to bring G1 axis. |
| 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       | NA   | Mine fully explored under G1 level   |
| 1e     | Balance reserve as on 01/04/20                                      | ---       | 0.882 Mil.T of proved reserves<br>(As on 01.04.2019) | NIL  |
| 1f     | General remarks of inspecting officers on geology, exploration etc  | ----      | ----   | The geology, exploration is found satisfactory   |

## Development :

| Sl.No. | Item   | Propasals        | Actual work                | Remarks                |
|--------|--|------------------|----------------------------|------------------------|
| 2a     | Location of development w.r.t.lease area                       | 3Nos             | 3Nos                       | As per the proposal    |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | Separate benches | Separate benches available | NIL                    |
| 2c     | Stripping ratio or ore to OB ratio                             | 1: 2.22          | 1: 2.22                    |                        |
| 2d     | Quantity of topsoil generation in m3                           | NIL              | Not applicable             | No top soil generation |

|    |   |                |                |                                     |
|----|---|----------------|----------------|-------------------------------------|
| 2e | Quantity of overburden generation in m3   | 744,472 Tonnes | 128,133 Tonnes | NIL                                 |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | --             | ---            | Development of pit found systematic |

### Exploitation:

| Sl.No. | Item  | Propasals      | Actual work    | Remarks  |
|--------|---|----------------|----------------|--|
| 3a     | Number of pit proposed for production                             | one            | one            | NIL  |
| 3b     | Quantity of ROM mineral production proposed                       | 398,248 Tonnes | 426,793 Tonnes | NIL  |
| 3c     | Recovery of sailable/usable mineral from ROM production           | 70% of ROM     | 70% of ROM     | NIL  |
| 3d     | Quantity of mineral reject generation                             | 139,645 Tonnes | 101617 Tonnes  | Since the total generated mineral reject is less than the threshold limit, quantity generated was backfilled in the worked out pit |
| 3e     | Grade of mineral rejects generation and threshold value declared. | + 34% of CaO   | - 25% of CaO   | NIL  |
| 3f     | Quantity of sub grade mineral generation.                         | NIL            | NA             | No sub grede mineral   |
| 3g     | Grade of sub grade mineral generation                             | NIL            | NA             | No sub grede mineral   |
| 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  | NA   | NO beneficiation study proposed and carried out for sub grade mineral and rejects. |
| 3j | Provision of drilling and blasting in mineral benches  | NIL  | NA   | NIL  |
| 3k | Provision of mining machineries in mineral benches   | Rock breaker, Excavator & Tippers are used | Rock breaker, Excavator & Tippers are used | NIL  |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 6 Meter                                    | 6 Meter                                    | NIL  |
| 3m | Total area covered under excavation/pits   | 31.585 Ha                                  | 31.585 Ha                                  | NIL  |
| 3n | Ore to OB ratio for the pit/mine during the year.  | 1: 2.22                                    | 1 : 0.54                                   | NIL  |
| 3o | Total area put in use under different heads at the end of year                                       | 31.585Ha                                   | 31.585Ha                                   | NIL  |
| 3p | Production of ROM mineral during the last five year period as applicable                             | -----                                      | -----                                      | method of mining found to be satisfactory  |
| 3q | General remarks of inspecting officers on method of mining etc.                                      |  |  |  |

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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) | Separate Dumps | Separate dumps available | As per plan |

|    |  |  |   |   |
|----|--|--|---|---|
| 4b | Location of topsoil, OB and mineral reject dumps                   | Backfilling  | OB and mineral rejects are backfilled in the worked out pit of 3A | OB and mineral rejects are backfilled in the worked out pit of 3A |
| 4c | Number of dumps within lease area and outside of lease area        | 1 within lease area  | 1 within lease area   | No dumping carried out outside of lease area                      |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | No waste or topsoil dump proposed during 2018-19.              | OB and mineral rejects are backfilled in the worked out pit of 3A | NIL   |
| 4e | Number of active and alive dumps.                                  | NIL  | NA  | Backfilling stard   |
| 4f | Number of dead dumps.  | one  | one   | As per plan   |
| 4g | Number of dumps established.                                       | 1  | 1   | As per plan   |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | NIL  | NA  | NIL   |
| 4i | Length of Retaining wall or garland drain all along dumps          | 90m3 Retaining wall & garland drain is proposed during 2018-19 | 90m3 Garland drain is made all along the dump                     | As per plan   |
| 4j | Number of settling ponds   | 1  | 1   | As per plan   |
| 4k | Specific comments of inspecting officer on waste dump management   | ----   | ----  | waste dump management is 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. | 1.89 Ha   | 1.89 Ha     | NIL         |
| 5b     | Area under backfilling of mined out area  | 1.89 Ha   | 1.89 Ha     | As per plan |

|    |   |     |       |   |
|----|---|-----|-------|---|
| 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 | NIL   | Mine not fully exhausted                                |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc.                | --- | ----- | backfilling and reclamation is foun as per the proposal |

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     | Submitted on time and correctly for the year 2018-19. | submitted in time                 |
| 6b     | Area available for rehabilitation (ha) .   | NIL           | NA  | As per plan                       |
| 6c     | afforestation done (ha).   | 2.47 hec      | 2.47 hec  | As per plan                       |
| 6d     | No. of saplings planted during the year  | 5480 saplings | 4540 saplings   | Plantation under prograse         |
| 6e     | Cumulative no .of plants   | ---           | 12651 nos   | Plantation under prograse         |
| 6f     | Any other method of rehabilitation   | NIL           | NA  | No other method of rehabilitation |
| 6g     | Cost incurred on watch and care during the year  | 2.05 Lakhs    | 1.85 lakhs  | Nil                               |
| 6h     | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | NIL           | NA  | NIL                               |

|    |   |                                  |                                  |     |
|----|---|----------------------------------|----------------------------------|-----|
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings         | NIL                              | NA                               | NIL |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area        | NIL                              | NA                               | NA  |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | NIL                              | NA                               | NIL |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.                 | NIL                              | NA                               | NIL |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation                                 | NIL                              | NA                               | NIL |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)                     | NIL                              | NA                               | NIL |
| 6o | Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation                    | NIL                              | NA                               | NIL |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)  | 8 Air Stations, 5 Water stations | 8 Air Stations, 5 Water stations | NIL |

|    |   |      |      |  |
|----|---|------|------|--|
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | ---- | ---- | PMCP compliance and progressive closure operations IS FOUND 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                           | 398,248 T  | 426,793 T   |   |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical.                        | Mechanical | Mechanical  | nil   |
| 7c     | Different grade of mineral sorted out at mines.  | NIL        | na          | NIL   |
| 7d     | Any beneficiation process at mines   | NIL        | NA          | No Any beneficiation process at mines                     |
| 7e     | General remarks of inspecting officer on Mineral conservation and beneficiation issues | ---        | ---         | Mineral conservation and beneficiation found satisfactory |

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Environment:

| Sl.No. | Item  | Propasals | Actual work | Remarks                                |
|--------|---|-----------|-------------|--|
| 8a     | Separate removal and utilization of topsoil (Rule 32) | NIL       | NA          | No top soil generation during the year |
| 8b     | Concurrent use or storage of topsoil                  | NIL       | NA          | No top soil generation during the year |

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|    |   |  |  |   |
|----|---|--|--|---|
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | Separate dumps available OB  | Separate dumps available<br>0  | As per the proposal   |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | NIL  | NA   | NIL   |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | NIL  | NA   | NIL   |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | 5480 nos plantation carried out in 2.47 hect area with Survival rate of 80%. | 4540 nos plantation carried out in 2.27 hect area with Survival rate of 80%. | nil   |
| 8g | Survival rate   | 80%  | 80%  | NIL   |
| 8h | Water sprinkling on roads to control airborne dust  | ---  | Water sprinkler available on roads to control airborne dust                  | nil   |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          | -----  | -----  | Aesthetic beauty in and around mines area is 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     | Monthly returns submitted before 10th of every month. Annual Return already submitted for the year 2018-19 | NIL     |

|    |   |                     |   |                                  |
|----|---|---------------------|---|----------------------------------|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Given               | Mining Engineer - N. Uma Maheswaran<br><br>Geologist - Srithar.G<br><br>Manager- Sendilkumar. K | NIL                              |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | GIVEN               | as per the formate  | nil                              |
| 9d | Scrutiny of Annual return on afforestation  | Given               | As perthe formate   |                                  |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                                      | given               | No stocl at mine head   | NIL                              |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | Given in the format | Ex mine price Rs.170/t,<br>No sale value, since it is captive mines                             | Given in part -VII               |
| 9h | Scrutiny of Annual return on fixed assets   | Given in the format | Rs.3547064386/-   | Given in part -II                |
| 9k | Scrutiny of Annual return on mining machineries   | Given in the format | Shovel-1,Dozer-1,water tanker-1,Tipper-12   | Given in Part-V, section 5/6/8/9 |

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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 |
| MCDR17             | Rule 11(1) | 13/12/2019    |                     |           |               |

**Date :**

**(S.THIRUNAVUKKARASU)**

Indian Bureau of Mines