

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

**MCDR inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/ALR/LST-36.MDS

**Mine code :** 38TMN38042

- (i) Name of the Inspecting : **M017** ) **Matiul Islam**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr Srihari Rao S (Mine Engineer) & Mr G S S Naidu Ada  
Official with  
Designation
- (iv) Date of Inspection : 18/11/2020
- (v) Prev.inspection date : 05/11/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KAIRULABAD-24.63.5HA**
- (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 : Kairulabad  
Taluka : Ariyalur  
Post office : Kairulabad  
Pin Code : 621705  
FAX No. : 04329-249217  
E-mail :  
Phone : 04329-249240
- (f) Police Station : ARIYALUR
- (g) First opening date : 10/01/2017
- (h) Weekly day of rest : SUN
2. Address for : REDDIPALAYAM CEMENT WORKS  
correspondance : REDDIPALAYAM PO  
ARIYALUR DT.-621704.
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : ULTRATECH CEMENT LIMITED  
 KARUR TAMIL NADU  
 Phone:  
 FAX :

## Mining Engineer

Name : S SRIHARI RAO, Full Time  
 Qualification : B.TECH IN MINING  
 Appointment/ : 19/02/2018  
 Termination date

## Geologist

Name : R BALAMURUGAN, Full Time  
 Qualification : MSC GEOLOGY  
 Appointment/ : 19/02/2018  
 Termination date

## Manager

Name : S SRIHARI RAO  
 Qualification : B.TECH WITH FCC  
 Appointment/ : 19/02/2018  
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 31/07/2014  
 Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 18/08/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Total lease area explore to G-1 level
1b	Exploration over lease area for geological axis 1 or 2	G-1	G-1	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Nil
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	-	0.111 Million Tonnes	Nil
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	N-1230606 to N- 1230783/E- 294720 to E- 295020	N-1230606 to N- 1230783/E-294720 to E- 295020	As per plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed Topsoil - 1 Ore -1	Separate benches maintained Topsoil - 1 Ore -1	As per plan
2c	Stripping ratio or ore to OB ratio	1: 0.36 (Tonne : Tonne)	1: 0.39 (Tonne : Tonne)	Within limit
2d	Quantity of topsoil generation in m3	17,716 m3	19,155.16 m3	Nil
2e	Quantity of overburden generation in m3	Nil	Nil	As per plan

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	N-1230606 to N1230783/E-294720 to E-295020	N-1230606 to N1230783/E-294720 to E-295020	As per proposal
3b	Quantity of ROM mineral production proposed	104,957 T	91,954.90 T	Production is less due to lockdown for COVID-19.
3c	Recovery of sailable/usable mineral from ROM production	90% of ROM	90% of ROM	Nil
3d	Quantity of mineral reject generation	11662 T	7523.58 T	Rejects quantity is less due to less Production.
3e	Grade of mineral rejects generation and threshold value declared.	Below 30% of CaO	Below 30% of CaO	Nil
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	Nil	Nil	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	Nil	Nil	Non-coventional mining method without drilling & blasting

3k	Provision of mining machineries in mineral benches	Excavator & Tippers proposed	Excavator & Tippers used	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 Mtrs 1 mtr - Topsoil 2 mtrs - Limestone	3 Mtrs 1 mtr - Topsoil 2 mtrs - Limestone	As per proposal
3m	Total area covered under excavation/pits	-	6.20 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.36 (Tonne : Tonne)	1: 0.39 (Tonne : Tonne)	Nil
3o	Total area put in use under different heads at the end of year	-	11.86 Ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2017-18 10,077 2018-19 105,116 2019-20 104,957	2017-18 12,831.53 2018-19 105,146.28 2019-20 91,954.90	Within limit
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)	No dumps proposed	No dumps maintained	As per plan
4b	Location of topsoil, OB and mineral reject dumps	Topsoil - Concurrent use proposed OB - No OB generation envisaged Rejects - Use in road & ramps	Topsoil - Concurrently used OB - No OB generated Rejects - Used in road & ramps	As per proposal

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)	NA	NA	Nil
4e	Number of active and alive dumps.	Nil	Nil	Nil
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.	Nil	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	Satisfactory

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling will be carried out after complete extraction of Limestone	Backfilling carried out in the NW portion of the worked out pit.	Nil
5b	Area under backfilling of mined out area	Nil	1.166 ha	Entire waste/rejects generated during the plan period has been proposed to be backfilled

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Carried out	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	1.166 ha	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Satisfactory

#### 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).	Yes	Submitted	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	1 ha	0.1 ha	Violation issued
6d	No. of saplings planted during the year	2000 nos	200 nos	Violation issued
6e	Cumulative no .of plants	2000 nos (for the year)	200 nos. (for the year)	Violation issued
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	1.166 ha	Entire waste/rejects generated during the plan period has been proposed to be backfilled

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	1.166 ha	Entire waste/reject generated during the plan has been proposed to be backfilled
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation 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)	Proposed	Carried out	Complied



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Violation issued for inadequate afforestation
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	104,957 T	91954.90 T	Production less due to lockdown for COVID-19
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil	Nil
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Nil
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)	Concurrent use of topsoil proposed for afforestation	Topsoil used concurrently for afforestation	As per plan
8b	Concurrent use or storage of topsoil	Concurrent use of top soil proposed	Concurrent use of top soil carried out	As per proposal

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No dumping proposed.	Entire top soil used concurrently. Entire waste backfilled/utlised in haul road & ramp	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Utilisation of waste/rejects proposed	Utilisation of waste/rejects carried out	As proposed
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Restoration proposed to be carried out upon exhaustion of mineral	Restoration to be carried out upon exhaustion of mineral	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 nos sapling proposed for the year	200 nos saplings planted during the year	Violation issued for inadequate afforestation
8g	Survival rate	-	60%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Violation issued for inadequate afforestation

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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	Given in Part-I Sl. 2	Mine Manager- Srihari Rao.S Geologist- GSS Naidu Adabala Mining Engineer - A Aravindan	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part-I, Sl. 12	Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 2.905 2.905 (iii) Reclaimed/Rehabilitated 0.000 1.166 1.166 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.420 0.420 (vi) Other Purpose ((Green Belt & Others)) 0.000 6.551 6.551 (vii) Work done under progressive mine closure plan	Nil
9d	Scrutiny of Annual return on afforestation	Given in Part-V, Sl.4. Mining operations during the year	4.4 (i) Number of trees planted during the year (a) Within lease area 200 (b) Outside lease area 0	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in Part-V, Sec 4 - Mineral Rejects for Limestone	4.2 Opencast 4.2 (B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade 0	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in Part VI, Sl. 1	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 91954.900 0.000	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part VI, Sl 2 & Part VII	Ex-Mine Price - Rs 178.09	Nil
9h	Scrutiny of Annual return on fixed assets	Given in Part-II (A) (Capital Structure)	Total 138341091 0 1365375 0 136975716 0	Nil
9k	Scrutiny of Annual return on mining machineries	Given in Part V, Sec 5/6/8/9	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) SHOVEL (HYDRAULIC) 0.900 CUM 1 Non Electrical Opencast TIPPER 10.000 CUM 6 Non Electrical Opencast WATER TANKER 4000.000 LITRE 1 Non Electrical Opencast OTHER HEM MACHINERY 20.000 1 Non Electrical Opencast	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
MCDR17	Rule 11(1)	12/01/2021			

**Date :**

**(Matiul Islam)**

Indian Bureau of Mines