

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

**MCDR INSPECTION REPORT**

**Chennai regional office**

**Mine file No :** TN/ALR/LST-26.MDS

**Mine code :** 38TMN38041

- (i) Name of the Inspecting : **T003** ) **S.THIRUNAVUKKARASU**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 02/12/2019
- (v) Prev.inspection date : 27/02/2019

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ALANTHURAIYARKATTALAI**
- (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 : **ALANTHURAIYARKATTALA**
- Taluka : **ARIYALUR**
- Post office : **SUNDARKUDI**
- Pin Code : **621704**
- FAX No. : **043219-249253**
- E-mail :
- Phone : **043219-249240**
- (f) **Police Station** :
- (g) **First opening date** : **17/10/2012**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **REDDIPALAYAM CEMENT WORKS**  
**REDDIPALAYAM PO**  
**ARIYALUR TALUK DISTRICT**
3. (a) **Lease Number** : **TMN1598**
- (b) **Lease area** : **8.14**
- (c) **Period of lease** : **30**
- (d) **Date of Expiry** : **12/12/2042**
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 : AMIT KUMAR MATHUR, Full Time  
 Qualification : BE MINING  
 Appointment/ : 29/12/2017  
 Termination date

## Geologist

Name : SURESH.E, Full Time  
 Qualification : M.SE IN GEOLOGY  
 Appointment/ : 01/07/2018  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	03/01/2005
Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	03/01/2006
	:	MP review under 17(1) MCR 2016	20/01/2017

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NA	MINE FULLY BEXPLORED
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	MINE FULLY BEXPLORED
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	Na	fully explored
1e	Balance reserve as on 01/04/20	--	1,370,960 Tonnes	NIL
1f	General remarks of inspecting officers on geology, exploration etc			

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1221270 - 1221392 / E300005 - E 300134	N 1221270 - 1221392 / E300005 - E 300134	As per Plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil - 1 OB - 1 Ore - 2	Top Soil - 1 OB - 1 Ore - 2	As per Plan
2c	Stripping ratio or ore to OB ratio	1: 0.38	1: 0.38	Nearly same
2d	Quantity of topsoil generation in m3	350 m3 (525 Tonnes)	1417 m3 (2125 Tonnes)	
2e	Quantity of overburden generation in m3	9,456 m3 (14,183 Tonnes)	63813 m3 (95720 Tonnes)	As per Plan

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

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	As per proposal
3b	Quantity of ROM mineral production proposed	71194 Tonnes	71146.46 Tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	Limestone - 85%	Limestone - 85%	NIL
3d	Quantity of mineral reject generation	12,564 Tonnes	12,555 tonnes	NIL
3e	Grade of mineral rejects generation and threshold value declared.	Less than 34% of CaO	Less than 34% of CaO	NIL
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub grade mineral generation
3g	Grade of sub grade mineral generation	NIL	NA	No sub grade mineral generation
3h	Manual / Mechanised method adopted for segregating from ROM	Fully Mechanized	Fully Mechanized	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	NIL
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	As per proposal
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	3.70 Ha	3.70 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.38	1: 1.55	NIL
3o	Total area put in use under different heads at the end of year	6.86 Ha	6.86 Ha	As per proposal
3p	Production of ROM mineral during the last five year period as applicable	2014-15 71205.972 2015-16 71181.499 2016-17 71238.964 2017-18 71124 2018-19 71194	2014-15 4837.340 2015-16 70989.70 2016-17 72961.30 2017-18 70420.63 2018-19 71146.46	All Production well within limit
3q	General remarks of inspecting officers on method of mining etc.	---	---	method of mining is found satisfactory

## 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 Topsoil-1 Reject-1	Separate Dumps Topsoil-1 Reject-1	As per plan
4b	Location of topsoil, OB and mineral reject dumps	N11221495 - N 1221555 / E300008 - E 300035	N11221473 - N 1221521 / E300021 - E 300047	with in the proposal
4c	Number of dumps within lease area and outside of lease area	2 active dumps within lease area	2 active dumps within lease area	NIL

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	With in the lease	With in the lease	All the dumps are dumped temporarily, it will be rehandled and backfilled in the worked out pit during the conceptual period
4e	Number of active and alive dumps.	NIL	nil	No active dumps are available within lease area
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	2	2	NIL
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	NIL	NIL	Garland drain all along dumps are already available
4j	Number of settling ponds	NIL	NA	1 settling pond is already available
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.	Backfilling will be carried out after complete extraction of Limestone	Backfilling will be carried out after complete extraction of Limestone	NIL
5b	Area under backfilling of mined out area	NIL	NA	Mineral is not full extraction
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NA	NIL:

5d	Total area fully reclaimed and rehabilitated	NIL	NA	Not at this stage for reclamation & rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	---	----	No backfilling, reclamation at this stage

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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).	NIL	Submitted on time and correctly for the year 2018-19	n il
6b	Area available for rehabilitation (ha) .	NIL	NA	NIL
6c	afforestation done (ha).	NIL	NA	NIL
6d	No. of saplings planted during the year	NIL	NA	NIL
6e	Cumulative no .of plants	--	1420	—
6f	Any other method of rehabilitation	NIL	NA	NIL
6g	Cost incurred on watch and care during the year	1.16 lakhs	1.16 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 on backfilled area	NIL	NA	NIL
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)	7 Air Stations, 5 Water stations	7 Air Stations, 5 Water stations	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	----	PMCP compliance & progressive closure operations is found satisfactory

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	71194 T	71146.46 T	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	na	NIL
7c	Different grade of mineral sorted out at mines.	NIL	NA	Different grade of mineral sorted and blended at factory head.
7d	Any beneficiation process at mines	NIL	NA	No beneficiation process at mines
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	Mineral conservation found to be satisfactory

## Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil stored & used for afforestation	Top soil stored & used for afforestation	NIL
8b	Concurrent use or storage of topsoil	Top soil used for afforestation	Top soil used for afforestation	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Prposed	Separate dumps available	NIL
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)	NIL	NA	NIL
8g	Survival rate	70 %	70 %	NIL
8h	Water sprinkling on roads to control airborne dust	YES	Water sprinkler available on permanent roads. Water tanker used for temporary roads	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	Submites in time
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - B. Bharthi Geologist - E.Suresh Manager- Amit Kumar Mathur	Mining Engineer - B. Bharthi Geologist - E.Suresh Manager- Amit Kumar Mathur	As per Proposal
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	6.86 Ha	6.86 Ha	nil

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9d	Scrutiny of Annual return on afforestation	Given in the format	1420 plant	Carried out satisfactory
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	1420	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	0 tonns	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Rs-219.08	PART - VII (COST OF PRODUCTION)
9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs-120655854	PART II (A) (Capital Structure)
9k	Scrutiny of Annual return on mining machineries	Given	HOVEL (HYDRAULIC) 1.200 CUM 1 DOZER 90.000 HP 1 TIPPER 10.000 CUM 6 OTHER HEM MACHINERY 20.000 1 PUMPS (ELEC.)	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 :**

(S. THIRUNAVUKKARASU)

Indian Bureau of Mines