

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/ALR/Lst-3/Mds

Mine code : 38TMN38012

- (i) Name of the Inspecting : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Amit Kumar Mathur - Mines Manager & Suresh. E - Geolo
Official with
Designation
- (iv) Date of Inspection : 29/01/2021
- (v) Prev.inspection date : 16/10/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ALANTHURAIKATTALAI-4557**
- (b) **Registration NO.** :
- (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 - 220212 / 249253
E-mail : devanand.m@adityabirla.com
Phone : 04329 - 249240 - 49 / 2492:
- (f) Police Station :
- (g) First opening date : 01/04/2010
- (h) Weekly day of rest : SUN
2. Address for : REDDIPALAYAM CEMENT WORKS
correspondance : ULTRATECH CEMENT LTD.
REDDIPALAYAM, ARIYALUR-621704.
3. (a) Lease Number : TMN1046
(b) Lease area : 35.22
(c) Period of lease : 50
(d) Date of Expiry : 31/03/2059
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 : SRI RAJIV DUBE
 ULTRATECH CEMENTS LIMITED
 REDDIPALAYAM POST,
 ARIYALUR TK - 6 ARIYALUR
 TAMIL NADU
 Phone:
 FAX : 04329 - 220212

Agent : SRI V.GANESAN
 ULTRATECH CEMENTS LIMITED
 REDDIPALAYAM POST,
 ARIYALUR TK - 6 ARIYALUR
 TAMIL NADU
 Phone:
 FAX :

Mining Engineer
 Name : AMIT MATHUR, Full Time
 Qualification : B.TECH -MINING & FIRST CLASS CERTIFICAT
 Appointment/ : 29/12/2017
 Termination date

Mining Engineer
 Name : MR.SENTHIL KUMAR, Full Time
 Qualification : B.E IN MINING
 Appointment/ : 05/08/2017
 Termination date

Geologist
 Name : SURESH.E, Full Time
 Qualification : M.SE IN GEOLOGY
 Appointment/ : 01/07/2017
 Termination date

Manager
 Name : AMIT MATHUR
 Qualification : B.TECH-MINING & FIRST CLASS CERTIFICATE
 Appointment/ : 29/12/2017
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	04/05/2007
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	25/04/2014
	:	MP review under 17(1) MCR 2016	12/11/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Entire lease already fully explored upto G1 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	-	1.749 MT	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	N1221200-1221465/E300515-300775	N1221200-1221465/E300515-300775	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	3 benches in waste and 1 bench in Limestone	3 benches in waste and 1 bench in Limestone	As per plan
2c	Stripping ratio or ore to OB ratio	1: 2.61	1: 0.84	Less waste generation due to less production
2d	Quantity of topsoil generation in m3	370868	88596.80	Less top soil generation due to less production
2e	Quantity of overburden generation in m3	33474 m3 (60,254 Tonnes)	6573.35 m3 (11,832 Tonnes)	Less development due to less production

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	1 no.	1 no.	As proposed
3b	Quantity of ROM mineral production proposed	299,812 T	239,645.46 T	Production is less as per plant quality requirement
3c	Recovery of sailable/usable mineral from ROM production	70% of ROM	70% of ROM	Nil
3d	Quantity of mineral reject generation	128491 T	47929.09 T	Less reject generation due to less production
3e	Grade of mineral rejects generation and threshold value declared.	below 34% of CaO	below 34% 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	Not proposed	Not carried out	Non-conventional mining with rock-breakers carried out

3k	Provision of mining machineries in mineral benches	Rock breaker, Excavator & Tippers proposed	Rock breaker, Excavator & Tippers used	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m	6m	As proposed
3m	Total area covered under excavation/pits	16.79 ha	7.142 ha	Less area excavated due to less production
3n	Ore to OB ratio for the pit/mine during the year.	1: 2.61 (Tonne : Tonne)	1: 0.84 (Tonne : Tonne)	Lesser waste generated compared to ROM
3o	Total area put in use under different heads at the end of year	31.07 ha	29.61 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 297764 T 2016-17: 298280 T 2017-18: 299267 T 2018-19: 299387 T 2019-20 299812 T	2015-16: 149017.46 T 2016-17: 256250.26 T 2017-18: 299943.59 T 2018-19: 299926.00 T 2019-20 239645.46 T	Within limits
3q	General remarks of inspecting officers on method of mining etc.	-	-	Satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No dumping proposed. Only backfilling proposed.	Backfilling carried out.	Entire waste backfilled into worked out benches
4b	Location of topsoil, OB and mineral reject dumps	Concurrent Backfilling proposed	Concurrent Backfilling done in the worked out pit.	As proposed

4c	Number of dumps within lease area and outside of lease area	4 pre-existing dumps within lease area	No dumping carried out into the dumps	As proposed
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No dumping proposed	No dumping carried out	As proposed
4e	Number of active and alive dumps.	Nil	Nil	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	04	04	Old dumps stabilised
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for the year	Not made during the year	As proposed
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	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 proposed	Bacfilling carried	As proposed
5b	Area under backfilling of mined out area	1.80 Ha	1.00 Ha	Less backfilling carried out due to less production & less development
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Carried out	As proposed

5d	Total area fully reclaimed and rehabilitated	-	-	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	Submitted in time
6b	Area available for rehabilitation (ha) .	1.80 ha	1.0 ha	Less area availabe for rehabilitation due to less production & development
6c	afforestation done (ha).	0.83 ha	0.45 ha	Violation issued for inadequate afforestation
6d	No. of saplings planted during the year	2082	200	Violation issued for inadequate afforestation
6e	Cumulative no .of plants	-	8,667 nos	Nil
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	171 X 101 X 31	120 X 85 X 11	Backfilling is less due to less production.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Waste	Waste	As proposed
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	0.83 ha (2082 nos)	0.45 ha (200 nos)	Violation issued for inadequate afforestation
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	NA	NA	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	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	No sorting proposed	No sorting carried out	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	-	-	Satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Carried	As proposed
8b	Concurrent use or storage of topsoil	Concurrent use proposed	Concurrent use carried out	As proposed

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No dumping proposed. Backfilling proposed.	Backfilling carried out	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Carried out	As proposed
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Mine out benches bacfilled & afforested	As proposed
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2082 nos saplings proposed in 0.83 hect	200 nos saplings planted in 0.45 hect	Violation issued for inadequate afforestation
8g	Survival rate	80%	80%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	As proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Violation issued for inadequate afforestation

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in Part I, Sl 2	Manager Mr. Amit Kumar Mathur Mining Engineer in charge Mr. Amit Kumar Mathur Geologist in charge Mr. E Suresh	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 7.142 7.142 (iii) Reclaimed/Rehabilitated 0.000 2.200 2.200 (iv) Used for waste disposal 0.000 7.370 7.370 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.020 0.020 (vi) Other Purpose (Green belt & others) 0.000 15.078 15.078 (vii) Work done under progressive mine	Nil
9d	Scrutiny of Annual return on afforestation	Given in Part V, Sec 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 300 (ii) Species 80 (iii) Survival rate in percentage 80.00	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 (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 & 2	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 239645.460 0.000	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part VI, Sl 1 & Part VII	Ex-mine price / Cost of Production - Rs 202.39/-	Nil
9h	Scrutiny of Annual return on fixed assets	Given in Part II(A)(Capital Structure)	Rs 14,74,48,328/-	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) 1.200 CUM 1 Non Electrical Opencast DOZER 1.000 HP 1 Non Electrical Opencast OTHER HEM MACHINERY 20.000 1 Non Electrical Opencast TIPPER 10.000 CUM 8 Non Electrical Opencast PUMPS (ELEC.) 700.000 L/MN 1 Electrical Opencast WATER TANKER 4000.000 LITRE 1 Non Electrical Opencast	Nil

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)	08/02/2021			

Date :

(Matiul Islam)

Indian Bureau of Mines