

**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 : Mr Xavier Honestraj, Mine Manager & Mr E Suresh, Geol
Official with
Designation
- (iv) Date of Inspection : 10/01/2023
- (v) Prev.inspection date : 27/09/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ALANTHURAIKATTALAI-4557**
- (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 - 220212 / 249253
E-mail : devanand.m@adityabirla.com
Phone : 04329 - 249240 - 49 / 2492:
- (f) Police Station : Vikramangalam
- (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:022-66917800
 FAX :022-66928109

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 : 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

Manager

Name : K. SENDIL KUMAR
 Qualification : B.E. (Mining) with FCC
 Appointment/ : 08/07/2021
 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	Lease area already fully explored upto G1 level.
1b	Exploration over lease area for geological axis 1 or 2	G1	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	-	1.40 Million Tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The geology & exploration were found satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1221312 to N 1221418 E 299857 - E 300045	N 1221312 to N 1221418 E 299857 - E 300045	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed Ore - 3 OB - 3	Separate benches maintained Ore - 3 OB - 3	-do-
2c	Stripping ratio or ore to OB ratio	1: 1.65 (Tonne: Tonne)	1: 1.42 (Tonne: Tonne)	Violation pointed for deviation in ROM, OB, TS & MR quantities
2d	Quantity of topsoil generation in m3	201,735 m3	162,618.26 m3	-do-
2e	Quantity of overburden generation in m3	24,683 m3	20,477 m3	-do-

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Violation pointed for deviation in ROM, OB, TS & MR quantities
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	As proposed
3b	Quantity of ROM mineral production proposed	428,549 T	304,853 T	Violation pointed for deviation in ROM, OB, TS & MR quantities
3c	Recovery of sailable/usable mineral from ROM production	299,984 T	248,860 T	-do-
3d	Quantity of mineral reject generation	128,565 T	55,993 T	-do-
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	Mechanized	Mechanized	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-conventional mining practiced without drilling & blasting

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	6 Meter Bench Height Proposed	6 Meter Bench Height Maintained	-do-
3m	Total area covered under excavation/pits	16.79 Ha (proposed to be used by the end of the current plan period)	8.364 Ha	Within limits
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.65 (Tonne: Tonne)	1: 1.42 (Tonne: Tonne)	Violation pointed for deviation in ROM, OB, TS & MR quantities
3o	Total area put in use under different heads at the end of year	35.22 Ha	34.162 Ha	Within limit
3p	Production of ROM mineral during the last five year period as applicable	2017-18 293488 2018-19 299387 2019-20 299,812 2020-21 299,912 2020-21 299984	2017-18 299943.59 2018-19 299926.00 2019-20 239645.46 2020-21 94345.57 2020-21 248859.87	-do-
3q	General remarks of inspecting officers on method of mining etc.	-	-	Violation pointed for deviation in ROM, OB, TS & MR quantities

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Concurrent backfilling of OB & covering with TS proposed	Concurrent backfilling of OB & covering with TS carried out	As proposed

4b	Location of topsoil, OB and mineral reject dumps	TopSoil - 1221180-300031 1221505-300474 OB- 1221062-300451	TopSoil - 1221180-300031 1221505- 300474 OB- 1221062- 300451	-do-
4c	Number of dumps within lease area and outside of lease area	4 (Within the lease)	4 (Within the lease)	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	-do-
4e	Number of active and alive dumps.	4	4	-do-
4f	Number of dead dumps.	Nil	Nil	-do-
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	685 meters of retaining wall already constructed along OB dump
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	-do-
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dump management was 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 proposed	Backfilling carried out	As proposed

5b	Area under backfilling of mined out area	2.06 Ha	1.058 Ha	Violation pointed for deviation in backfilling & afforestation areas
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Carried out	As proposed
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Violation pointed for deviation in backfilling & afforestation areas

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 in time	Nil
6b	Area available for rehabilitation (ha) .	1.48 Ha	1.058 Ha	Violation pointed for deviation in backfilling & afforestation areas
6c	afforestation done (ha).	1.48 Ha	1.058 Ha	-do-
6d	No. of saplings planted during the year	3,699 Nos	3,700 Nos	As proposed
6e	Cumulative no .of plants	9,085 nos	9,468 nos	-do-
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs. 6,81,431/-	Rs. 6,90,000/-	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	2.06 Ha	1.058 Ha	Violation pointed for deviation in backfilling & afforestation areas
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2.06 Ha	1.058 Ha	-do-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	3,699 nos	3,700 nos	As proposed
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.	NA	NA	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	NA	NA	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out quarterly	All parameters within norms
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Violation pointed for deviation in backfilling & afforestation areas

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	As proposed
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	-	-	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Carried out	As proposed

8b	Concurrent use or storage of topsoil	Yes	Carried out	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Within the Lease -4 (OB-2 & TopSoil-2)	Within the Lease -4 (OB-2 & TopSoil-2)	04 no. of active dumps within the lease
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Carried out	Overburden & Mineral reject used for backfilling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Carried out	Overburden & Mineral reject used for backfilling
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	9,085 nos cumulative afforestation proposed	9,448 nos cumulative afforestation carried out	As proposed
8g	Survival rate	Nil	80%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling done on roads using water tankers	As proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The aesthetic beauty in and around mines was found satisfactory

Compliance of Rule 45:

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

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Mr. Xavier Honestraj Mining Engineer in charge Mr. Xavier Honestraj Geologist in charge Mr. E Suresh	Given in Part 1, Sec 7-9	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i) Already Exploited & Abandoned by Opencast Workings - 0 ha (ii) Covered under current Workings - 8.364 ha (iii) Reclaimed / Rehabilitated - 2.81 (iv) Used for Waste Disposal - 4.34 ha (v) Occupied by plant, buildings, residential, welfare buildings & Roads - 0.2 ha (vi) Other Purpose (Green belt, Road, area, Non-Mineral Bearing Land for future dumps, afforestation, Infrastructure) - 18.44 ha	Given in Part I, Sec 12	Nil
9d	Scrutiny of Annual return on afforestation	No. of Trees planted within the Lease Area during FY 2021-22 - 3700 nos. Outside Lease Area FY 2021-22: Nil Survival Rate - 80%	Given in Part V, Sec 4. Mining Operations during the year	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	4.2 Opencast 4.2(B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 55993 b. Grade Below threshold limit	Given in Part V, Sec 4. Mineral Rejects for Limestone	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 248860.000 0.000	Given in Part VI, Sec 1	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price (in Rs Per Tonne) - 222.74	Given in Part VI, Sec 2	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets - Rs 1,85,89,330/-	Given in Part II A (Capital Structure)	Nil

9k	Scrutiny of Annual return on mining machineries	Type of machinery Capacity of each unit No.of units Electrical/Non -Electrical (specify) Used in opencast/under ground (specify) BACK HOE 2.100 CUM 3 Non Electrical Opencast TRUCK 25.000 TONNE 16 Non Electrical Opencast DOZER 175.000 HP 1 Non Electrical Opencast OTHER HEM MACHINERY 4.000 1 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical 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 couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	23/01/2023			
MCDR17	Rule 34(2)	23/01/2023			

Date :

(Matiul Islam)

Indian Bureau of Mines