

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

Review and updation of Mining Plan 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 : Shri. Arun Kumar P (Manager) & Shri. Vasanth N (Geolo
Official with
Designation
- (iv) Date of Inspection : 05/10/2023
- (v) Prev.inspection date :

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	Potentially mineralised 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	6,61,713 T	11,29,265 T	Due to less depletion during the current plan period than proposed.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Geology & Exploration of the lease was found satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1221465 to 1221720/ E 300570 - E 300735	N 1221465 to 1221720/ E 300570 - E 300735	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: 1.04 (Tonne: Tonne)	1: 1.07 (Tonne: Tonne)	Within acceptable limit
2d	Quantity of topsoil generation in m3	94,488 m3	92,812 m3	-do-

2e	Quantity of overburden generation in m3	18,515 m3	18,416 m3	-do-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Development of pit w.r.t. the type of deposit was found satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Single pit worked	As proposed
3b	Quantity of ROM mineral production proposed	4,27,970 T	3,92,642 T	Within limit
3c	Recovery of sailable/usable mineral from ROM production	2,99,579 T	277011.81 T	-do-
3d	Quantity of mineral reject generation	1,28,391T	1,15,630 T	-do-
3e	Grade of mineral rejects generation and threshold value declared.	Below 34% of CaO	Below 34% of CaO	As proposed
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	6 Meter	Suitable for method of mining
3m	Total area covered under excavation/pits	8.364 Ha.	8.364 Ha.	As proposed
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.04 (Tonne: Tonne)	1: 1.07 (Tonne: Tonne)	Within acceptable limit
3o	Total area put in use under different heads at the end of year	35.22 Ha.	35.22 Ha.	As proposed
3p	Production of ROM mineral during the last five year period as applicable	2018-19 2,99,387 2019-20 2,99,812 2020-21 2,99,912 2021-22 2,99,984 2022-23 2,99,579	2018-19 2,99,926.00 2019-20 2,39,645.46 2020-21 94,345.57 2021-22 2,48,859.87 2022-23 2,77,011.81	Within limits
3q	General remarks of inspecting officers on method of mining etc.	-	-	Method of mining was 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 dumping proposed	Separate dumping carried out	As proposed

4b	Location of topsoil, OB and mineral reject dumps	Top Soil - 1221180-300031 1221505-300474 OB- 1221062-300451	Top Soil - 1221180-300031 1221505- 300474 OB- 1221062- 300451	-do-
4c	Number of dumps within lease area and outside of lease area	Within the Lease -4	Within the Lease -4	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	2 dumps within UPL 2 dumps outside UPL	2 dumps within UPL 2 dumps outside UPL	All dumps will be rehandled and backfilled into mined out areas during the next plan period.
4e	Number of active and alive dumps.	4	4	As proposed
4f	Number of dead dumps.	Nil	Nil	-do-
4g	Number of dumps established.	Nil	Nil	-do-
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for the year	Nil	Existing garland drain being maintained
4i	Length of Retaining wall or garland drain all along dumps	No proposal for the year	Nil	685 mts of existing garland drain being maintained
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 into mined out benches	Backfilling carried out into mined out benches	As proposed

5b	Area under backfilling of mined out area	1.36 Ha	1.30 Ha	Within limit
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	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Backfilling & reclamation activities were found 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).	Submitted in time	Along with Annual Return	Nil
6b	Area available for rehabilitation (ha) .	2.06 Ha	1.058	Within limit
6c	afforestation done (ha).	2.06 Ha	1.058	-do-
6d	No. of saplings planted during the year	5161	5200	As proposed
6e	Cumulative no .of plants	13,500	13,628	Since inception
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs 3,87,102	Rs. 5,20,000	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	2.06 Ha	1.058 Ha	Within limit
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	5161 nos	5200 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.	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)	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)	Periodic Monitoring proposed	Periodic Monitoring carried out	As proposed
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PMCP Compliance & Progressive Closure operations were found satisfactory.

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	-	-	No issues were observed with mineral conservation. No beneficiation was proposed or carried out.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Carried out	Top soil is being spread over the back filled area for afforestation

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)	Separate dumps proposed	Separate dumps maintained	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed	Backfilling carried out	-do-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling carried out	-do-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	13,500 nos saplings proposed to be cumulatively planted	13,628 nos saplings cumulatively planted since inception	Nil
8g	Survival rate	80 %	80 %	As proposed
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Water Tanker deployed for water sprinkling on haul roads
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	The aesthetic beauty in and around mines area was found satisfactory.

Compliance of Rule 45:

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

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Mines Manager - Shri. Arun Kumar. P Geologist- Shri. Karaka Mohanty	Mining Engineer & Mines Manager - Shri. Arun Kumar. P Geologist- Shri. Vasanth. N	Notice of appointment for current geologist received at our office.
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, Sl 12.	Nil
9d	Scrutiny of Annual return on afforestation	No. of Trees planted within the Lease Area during FY 2022-23 - 5200 nos. Outside Lease Area FY 2022-23: Nil Survival Rate - 80%	Given in Part V, Sl 5	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	1,15,630 T	Given in Part V, Sl 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	(a) Opencast Working - Production - 277011.810 MT (b) Underground Working - Production - Nil (c) Dump Workings - Production - Nil	Given in Part VI, Sl 2	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine Price - Rs.230.66 Cost of production - Rs. 230.66	Given in Part VI, Sl 3 & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets - Rs. 1,67,30,397/-	Given in Part II A Capital Structure	Nil
9k	Scrutiny of Annual return on mining machineries	Rock Breaker - 2.1 Cu M- 2 Nos Back-Hoe/Bull Clam (Capacity in HP) Diesel -20 HP -1 Haulers / Dumpers- 11.36 Cu M- 25	Given in Part V, Sl 6	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

Date :

(Matiul Islam)

Indian Bureau of Mines