

**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 : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR. SANTHIL AND MR PRAMODRAN-MINE MANAGER & GEOLOGIS
Official with
Designation
- (iv) Date of Inspection : 05-JUL-17
- (v) Prev.inspection date : 05-AUG-14

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-APR-10
- (h) **Weekly day of rest** : SUN
2. **Address for** : REDDIPALAYAM CEMENT WORKS
correspondance : ULTRATECH CEMENT LTD.
REDDIPALAYAM, ARIYALUR
3. (a) **Lease Number** : TMN1046
- (b) **Lease area** : 35.22
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 16-FEB-29
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 : R.P.SABRIGIRIVASAN, Full Time
 Qualification : B.E(MINING)
 Appointment/ : 16-SEP-11
 Termination date

Geologist

Name : M PRAMODARAN, Part Time
 Qualification : M.SC(GEO)
 Appointment/ : 28-JUN-13
 Termination date

Manager

Name : Sri G.Jayavelu
 Qualification : B.E,F.C.C
 Appointment/ : 16-APR-12
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 04-MAY-07
 Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 25-APR-14

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL, AREA ALREADY EXPLORED	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	-	2438135 mt	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-	-	SATISFACTORY, AREA IS FULLY EXPLORED

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North & Eastern Part of the lease area	North & Eastern Part of the lease area	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	YES	MAINTAINED AS PROPOSED	NIL
2c	Stripping ratio or ore to OB ratio	1:2.10	1:1.58	NIL
2d	Quantity of topsoil generation in m3	3362	8550	NIL
2e	Quantity of overburden generation in m3	418122	269737	NIL

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	1	NIL
3b	Quantity of ROM mineral production proposed	298280	256250	WITHIN LIMIT
3c	Recovery of sailable/usable mineral from ROM production	NA	NA	NA
3d	Quantity of mineral reject generation	127834	32767	NIL, Utilised completely by blending with high grade
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	NIL	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED	MECHANISED	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	NO	NIL	NIL

3k	Provision of mining machineries in mineral benches	YES, Rock breaker, Excavator & Tippers are used	Rock breaker, Excavator & Tippers are used	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES 6 MTR	6 MTR	NIL
3m	Total area covered under excavation/pits	-	5.85 hect	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:2.10	1:1.58	WITHIN LIMIT
3o	Total area put in use under different heads at the end of year	MINING-4.58 HA ROADS=0.65 HA DUMPS=1.02HA BACKFILLING=1.23HA GREEN BELT=1.68HA	MINING-3.90 HA ROADS=0.65 HA DUMPS=1.02HA BACKFILLING=1.05HA GREEN BELT=1.60HA	NIL
3p	Production of ROM mineral during the last five year period as applicable	"2012-13: 301635 T 2013-14: 301508 T 2014-15: 292432 T 2015-16: 297764 T 2016-17: 298280 T Total: 1491619 T"	"2012-13: 0.00 T 2013-14: 88700 T 2014-15: 166442 T 2015-16: 149017 T 2016-17: 256250 T Total: 660410 T"	WITHIN LIMIT
3q	General remarks of inspecting officers on method of mining etc.	-	-	SATISFACTORY AS PER PLAN.

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	Separate Dumps AVAILABLE	NIL

4b	Location of topsoil, OB and mineral reject dumps	USED FOR BACKFILLING	USED FOR BACKFILLING	NIL
4c	Number of dumps within lease area and outside of lease area	4 within lease area	4 within lease area	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South & Western part of the lease	South & Western part of the lease	NIL
4e	Number of active and alive dumps.	NIL	NIL	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	4 DEAD DUMPS	4 DEAD DUMPS	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall proposed	Garland drains are made	NIL
4i	Length of Retaining wall or garland drain all along dumps	250 mtr retaining wall	150 mtr garland drain	NIL
4j	Number of settling ponds	NIL	I TANK	NIL
4k	Specific comments of inspecting officer on waste dump management	-	-	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 after exhaust of mineral	Backfilling carried out after complete extraction of mineral	NIL
5b	Area under backfilling of mined out area	1.315 hect	0.17 hect	NIL

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil spreading on backfilled area	Top soil spreaded on backfilled area and afforestation is done	NIL
5d	Total area fully reclaimed and rehabilitated	NIL	2.53 hect	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	YES SUBMITTED	NIL
6b	Area available for rehabilitation (ha) .	-	4.84 hect	NIL
6c	afforestation done (ha).	-	0.5 hect	NIL
6d	No. of saplings planted during the year	-	551 saplings	NIL
6e	Cumulative no .of plants	-	6221 nos	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	2.05 lakhs	2.05 lakhs	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	170 m*78 m*24 m	45 m*40 m*24 m	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.32 hect	0.17 HA	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.40 hect	551 saplings planted on 0.5 hect (Badam & Tamarind)	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	-	832 Nos plantation done (Neem & Pungan)	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	-	0.50 hect	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-	Rehabilitated by afforestation	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	CONDUCTED,7 Air Stations, 5 Water stations	COMPLIED AS PROPOSED	NIL

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	SATISFACTORY
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	256250 tonnes dispatched	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL	MCEHANICAL	NIL
7c	Different grade of mineral sorted out at mines.	Yes,Different grade of mineral sorted and blended as required for Plant	Different grade of mineral sorted and blended as required for Plant	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)	YES,Top soil used for afforestation	Top soil used for afforestation	NIL
8b	Concurrent use or storage of topsoil	Top soil used for afforestation	Top soil used for afforestation on backfilled area	NIL

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	SEPERATE DUMPS AVAILABLE	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Used for backfilling	Overburden used for backfilling of the area	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	Backfilled area is restored by plantation	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	6221 nos plantation carried out in 4.5 hect area with Survival rate of 93%	NIL
8g	Survival rate	-	80%	NIL
8h	Water sprinkling on roads to control airborne dust	YES	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	-	-	SATISFACTORY

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	YES	SUBMITTED,Monthly returns submitted tbefore 10th of every month. Annual Return Submitted for the year 2016-17 on 14.06.2017	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	APPOINTED	PRESENT	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AS PROPOSED	AS PROPOSED	NIL
9d	Scrutiny of Annual return on afforestation	-	AS PROPOSED	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	-	AS PROPOSED	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	-	AS PROPOSED	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	-	AS PROPOSED, CAPTIVE MINES	NIL
9h	Scrutiny of Annual return on fixed assets	-	AS PROPOSED, DEPLOYED	NIL
9k	Scrutiny of Annual return on mining machineries	-	AS PROPOSED, DEPLOYED AT MINE SITE	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 :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines