

**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 : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR. PRAMODHARAN GEOLOGIST ULTRATECH
Official with
Designation
- (iv) Date of Inspection : 16-AUG-17
- (v) Prev.inspection date : 10-DEC-16

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-OCT-12
- (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** : 16-OCT-42
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 :

6. Date of approval of Mining : MP review under 17(1) MCR 2016 20-JAN-17
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Complete lease area explored in G1 category as per UNFC classification
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	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	-	1513000Tonnes	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	Western Part of the lease area	Western Part of the lease area	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches	Separate benches available	NIL
2c	Stripping ratio or ore to OB ratio	1:0.8	1:0.64	NIL,WITHIN LIMIT
2d	Quantity of topsoil generation in m3	-NIL-	5400	NIL
2e	Quantity of overburden generation in m3	NIL	31170	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	ONE	ONE	NIL
3b	Quantity of ROM mineral production proposed	71238.96 T	72961.3 T	within limit
3c	Recovery of sailable/usable mineral from ROM production	NA	NIL	NIL
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	NIL
3f	Quantity 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.	NA	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	Rock breaker, Excavator & Tippers are DEPLOYED

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES 6 MTR	YES 6 MTR	NIL
3m	Total area covered under excavation/pits	2.56 ha	2.56 ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.8	1:0.64	NIL
3o	Total area put in use under different heads at the end of year	MINING=2.56 DUMP= 1.76 ROADS=.70 BACKFILLING=.10 0 GREENBELT=1.02	MINING=2.56 DUMP= 1.54 ROADS=.55 BACKFILLING=.10 GREENBELT=1.02	NIL
3p	Production of ROM mineral during the last five year period as applicable	"2012-13: 71242 T 2013-14: 71248 T 2014-15: 71206 T 2015-16: 71182 T 2016-17: 71239 T Total: 356116 T"	"2012-13: 0.00 T 2013-14: 0.00 T 2014-15: 4837 T 2015-16: 70990 T 2016-17: 72961 T Total: 148788 T"	WITHIN LIMIT
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)	Separate Dumps	Separate Dumps available	nil
4b	Location of topsoil, OB and mineral reject dumps	Northern Part of the lease	Northern Part of the lease	nil
4c	Number of dumps within lease area and outside of lease area	2 within lease area (top soil & OB)	2 within lease area (top soil & OB)	as per plan

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	north	north	nil
4e	Number of active and alive dumps.	2	2	nil
4f	Number of dead dumps.	nil	nil	nil
4g	Number of dumps established.	nil	nil	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	nil	Garland drains are made	nil
4i	Length of Retaining wall or garland drain all along dumps	nil	Garland drains are made 350mtr	nil
4j	Number of settling ponds	-	1tank	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.	nil	nil	nil
5b	Area under backfilling of mined out area	nil	nil	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	nil	nil	nil
5d	Total area fully reclaimed and rehabilitated	nil	nil	nil

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	nil
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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).	yes	submitted Yes submitted on 15/06/2017	nil
6b	Area available for rehabilitation (ha) .	nil	nil	nil
6c	afforestation done (ha).	-	0.10 ha	nil
6d	No. of saplings planted during the year	nil	186 saplings	nil
6e	Cumulative no .of plants	-	840 nos	-
6f	Any other method of rehabilitation	no	nil	no
6g	Cost incurred on watch and care during the year	-	.37 lakhs	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil	nil	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	nil	nilo

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	nil	nil	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.	no,nil	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	-	186 nos plantation done all along the bounday	nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	-	0.10 hect	nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	nil	Rehabilitated by afforestation	nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	Complied as per proposal	nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	71239 T	72961 tonnes dispatched	nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	nil, as per plan
7c	Different grade of mineral sorted out at mines.	NA	nil	nil
7d	Any beneficiation process at mines	nil	nil	nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	nil as per plan work carried out

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	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 stacked for future use	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps available	Separate 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 will be used for backfilling of the exhausted area	nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	na	Backfilled area is restored by plantation	na
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	na	840 nos plantation carried out in 0.7 hect area	nil
8g	Survival rate	-	90%-	nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is to be done by using Water tanker	Water sprinkling done by using Water tanker	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	Monthly returns submitted before 10th of every month. Annual Return Submitted for the year 2016-17 on 14.06.2017	Monthly returns submitted before 10th of every month. Annual Return Submitted for the year 2016-17 on 14.06.2017 as per plan
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	appointed	present at the time of inspection	nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	-	as per plan	as per plan

9d	Scrutiny of Annual return on afforestation	nil	nil	nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	nil	nil;
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil	nil, no stock	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	captive mine	captive mine production cost given	nil
9h	Scrutiny of Annual return on fixed assets	given	deployed as per plan	deployed as per plan
9k	Scrutiny of Annual return on mining machineries	given	deployed as per plan	deployed as per plan

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