

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/ALR/LST-20.MDS

Mine code : 38TMN38015

- (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 : 18-AUG-17
- (v) Prev.inspection date : 07-AUG-14

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : REDDIPALAYAM-32.645-ML3
- (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 249253
- E-mail :
- Phone : 04329 249240
- (f) **Police Station** : VIKRAMANGALAM
- (g) **First opening date** : 10-MAR-06
- (h) **Weekly day of rest** :
2. **Address for correspondance** : REDDIPALAYAM PO
ARIYALUR TK&DT
3. (a) **Lease Number** : TMN0991
- (b) **Lease area** : 43.4
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 09-FEB-36
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 : SRI H.N.ASHOKA,Part Time
 Qualification : B.E(Mining)
 Appointment/ :
 Termination date

Manager

Name : Bhupendra khorapia
 Qualification : DME,FCC
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	02-JUL-12
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	23-FEB-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	3 BOREHOLES	NIL	VIOLATION POINTED OUT
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	G1	G1	NIL
1e	Balance reserve as on 01/04/20	-	1413908 Tonnes	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	BLOCK B	BLOCK B OF THE LEASE	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	SEPERATE BENCHES	SEPERATE BENCHES MAINTAINED	NIL
2c	Stripping ratio or ore to OB ratio	1:98	1:1.53	NIL
2d	Quantity of topsoil generation in m3	NIL	NL	NIL
2e	Quantity of overburden generation in m3	-	368751	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	399303 T	362091 T	WITHIN LIMIT
3c	Recovery of sailable/usable mineral from ROM production	399303 T	362091 T	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
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.	NO	NIL	-
3j	Provision of drilling and blasting in mineral benches	NO	NIL	NIL

3k	Provision of mining machineries in mineral benches	YES,Ripper Dozer, Excavator & Tippers are used	Ripper Dozer, Rock breaker, Excavator & Tippers ,WT are used	NIL,DEPLOYED AS PER PLAN
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 MTR	6MTR	NIL
3m	Total area covered under excavation/pits	18.68HA	18.68HA	NIL
3o	Total area put in use under different heads at the end of year	MINING=18.68 GREEN BELT-2.75 HA	MINING=18.68 GREEN BELT-2.75	NIL,
3p	Production of ROM mineral during the last five year period as applicable	"2012-13: 232133 T 2013-14: 285220 T 2014-15: 432580 T 2015-16: 470780 T 2016-17: 399303 T Total: 1820016 T"	"2012-13: 305047 T 2013-14: 254257 T 2014-15: 417802 T 2015-16: 279799 T 2016-17: 362091 T Total: 1618996 T"	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	SATISFACTORY WORK CARRIED OUT

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 dump available	-
4b	Location of topsoil, OB and mineral reject dumps	Backfilling	used for backfilling	-

4c	Number of dumps within lease area and outside of lease area	1 within lease area	1 within lease area	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Southern part of the lease	Southern part of the lease	-
4e	Number of active and alive dumps.	NIL	NIL	NIL
4f	Number of dead dumps.	1	1	NIL
4g	Number of dumps established.	NIL	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall proposed	Garland drains are made	Garland drains are made
4i	Length of Retaining wall or garland drain all along dumps	70m3 both Garland drain and retaining wall	350 m garland drain	NIL
4j	Number of settling ponds	1	1 settling 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	2.27 hect	1.86 hect	-
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	-

5d	Total area fully reclaimed and rehabilitated	2.27 hect	1.81 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 submitted on 15/06/2017	NIL
6b	Area available for rehabilitation (ha) .	2.27 hect	1.81 hect	NIL
6c	afforestation done (ha).	-	0.80HA	NIL
6d	No. of saplings planted during the year	940 nos	761 nos	NIL
6e	Cumulative no .of plants	-	2311 nos (last 5 years)	NIL
6f	Any other method of rehabilitation	NO	NIL	NIL
6g	Cost incurred on watch and care during the year	0.352 lakhs	1.88 lakhs	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	190*120*25	180*70*25	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2.27 hect	1.81 hect	NIL

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	-	Plantation to be done	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	NL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	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	NIL	Rehabilitated by afforestation	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES,AAQ, Water Quality, Noise level	COMPLIED AS PROPOSED	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	399303 T	362091 tonnes dispatched	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL	MECHANICAL	DEPLOYED AS PROPOSED
7c	Different grade of mineral sorted out at mines.	NA	NIL	NIL
7d	Any beneficiation process at mines	NO	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)	Top soil used for afforestation	Top soil used for afforestation	NIL
8b	Concurrent use or storage of topsoil	YES,Top soil used for afforestation	YES,Top soil used for afforestation	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	Separate dumps available	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	BACKFILLING	USED FOR BACKFILLING	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-	Backfilled area will be restored by plantation	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	761 nos plantation carried out in 0.80 hect area	-
8g	Survival rate	-	95%	-
8h	Water sprinkling on roads to control airborne dust	YES	WATER SPRINKLING USED TO SUPPRESS DUST	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	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	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	YES	not appointed	violation pointed out

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	GIVEN	as per plan	NIL
9d	Scrutiny of Annual return on afforestation	YES PROVIDED	GIVEN,afforestation done as per plan	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NO STOCK	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 GIVEN	NIL
9k	Scrutiny of Annual return on mining machineries	NIL	MACHINE DEPLOYED AS GIVEN	NIL

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	31-AUG-17			
MCDR17	Rule 31(4)	31-AUG-17			
MCDR17	Rule 55(1)(3)	31-AUG-17			

Date :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines