

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

MCDR INSPECTION REPORT

Chennai regional office

Mine file No : TN/TCR/LST-34/MDS

Mine code : 38TMN14030

- (i) Name of the Inspecting : S011) SALIL SANDIP KUJUR
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR.SANTHIL KUMAR-MANAGER/ MR. PRAMODRAN- GEOLOGIST
Official with
Designation
- (iv) Date of Inspection : 06-JUL-17
- (v) Prev.inspection date : 08-DEC-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : VILIPERINGIYAM LIMESTONE
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : ARIYALUR
- Village : REDDIPALAYAM
- Taluka : ARIYALUR
- Post office : REDDIPALAYAM
- Pin Code : 621704
- FAX No. : 04329 - 220212 / 249253
- E-mail : devanand.m@adityabirla.com
- Phone : 04329 - 249240 - 49 / 2492
- (f) **Police Station** : ARIYALUR
- (g) **First opening date** : 06-JAN-87
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : ULTRATECH CEMENTS LIMITED
REDDIPALAYAM POST, ARIYALUR TK - 621704
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 : N. Jayabharath Reddy, Full Time
 Qualification : B.E., MINING
 Appointment/ : 29-OCT-07
 Termination date

Mining Engineer

Name : SRI H.N.ASHOKA, Part Time
 Qualification : B.E(Mining)
 Appointment/ : 28-JUL-10
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	04-NOV-99
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	30-AUG-04
		Modif.approved Mining Scheme	08-JUN-05
		Renewal under rule 24 MCR1960	19-JUL-11
		Mining Scheme rule 12 MCDR1988	04-OCT-13
		MP review under 17(1) MCR 2016	20-JAN-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	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, Complete lease area explored in G1 category as per UNFC classification
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	1117000	1117000 MT	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	NIL	North part of Southern Pit	NIL, as per plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches	Separate benches available	separate benches in OB and ORE
2c	Stripping ratio or ore to OB ratio	1:0.5	1:0.47	nil
2d	Quantity of topsoil generation in m3	nil	nil	nil

2e	Quantity of overburden generation in m3	nil	66563 MT	nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	satisfactory

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	799996 T	209985.75 T	within limit
3c	Recovery of sailable/usable mineral from ROM production	nil	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
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	yesRipper Dozer, Excavator & Tippers are used	Ripper Dozer, Rock breaker, Excavator & Tippers are used	Ripper Dozer, Rock breaker, Excavator & Tippers are used
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 Meter	6 Meter	nil
3m	Total area covered under excavation/pits	21.83 ha	21.83 ha	nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.5	1:.45	nil
3o	Total area put in use under different heads at the end of year	mining=21.83 backfilling=10.70 afforestation=2.0ha water reservoir=5.07 roads=1.25 ha	mining=21.83 backfilling=10.70 afforestation=1.5ha	satisfactory
3p	Production of ROM mineral during the last five year period as applicable	"2012-13: 929627 T 2013-14: 799468 T 2014-15: 799981 T 2015-16: 800001 T 2016-17: 799996 T Total: 4129073 T"	"2012-13: 929627 T 2013-14: 863991 T 2014-15: 587166 T 2015-16: 294484 T 2016-17: 209985 T Total: 2885253 T"	nil
3q	General remarks of inspecting officers on method of mining etc.	-	-	satisfactory

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	backfilling	used for backfilling	nil
4c	Number of dumps within lease area and outside of lease area	2 within lease area	2 within lease area	nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South & South Western part of the lease	South & South Western part of the lease	nil
4e	Number of active and alive dumps.	nil	nil	nil
4f	Number of dead dumps.	2	2	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	nil
4i	Length of Retaining wall or garland drain all along dumps	1040 mtr retaining wall	350 mtr garland drain	nil
4j	Number of settling ponds	nil	1 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	-	10.70 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 carried out	nil
5d	Total area fully reclaimed and rehabilitated	nil	19.49 hect(total)	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 on 15/06/2017	nil
6b	Area available for rehabilitation (ha) .	-	0.5HA	NIL
6c	afforestation done (ha).	2.0 hect	1.5 hect	NIL
6d	No. of saplings planted during the year	3000 nos	1082 NOS	NIL
6e	Cumulative no .of plants	-	16221 nos (last 5 years)	NIL
6f	Any other method of rehabilitation	-	WATER RESERVOIR	NIL
6g	Cost incurred on watch and care during the year	2.10 lakhs	2.16 LKS	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	-	180 m*48 m*24 m	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	0.86 hect	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	-	5.07 hect	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	-	5.07	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	-	Rehabilitated by afforestation	NIL
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA-	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	5 Air Stations, 5 Water stations	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
7a	ROM Mineral dispatch or grade-wise sorting within lease area	YES	256250 tonnes dispatched	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL	MECHANICAL	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	-	-	SATISFACTORY, ALL MATERIAL IS BLANDED AND UTILISED

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, USED AS PROPOSED
8b	Concurrent use or storage of topsoil	YES 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)	separate dumper proposed	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 used for backfilling of the area	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-	Backfilled area is restored by plantation	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	1082 nos plantation carried out in 1.5 hect area	NIL
8g	Survival rate		95%	NIL
8h	Water sprinkling on roads to control airborne dust	YES	Water sprinkling carried out by using water tanker on 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	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	AS PROPOSED
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	SAME AS PROPOSED	SAME AS GIVEN IN ar	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, ALL MATERIAL IS BEING USED IN PLANTS	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	-NO STOCK-	AS PROPOSED	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		CAPTIVE MINE	NIL
9h	Scrutiny of Annual return on fixed assets		DEPLOYED ,AS PROPOSED	NIL
9k	Scrutiny of Annual return on mining machineries	GIVEN AS PROPOSED	DEPLOYED AS PROPOSED	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

Date :

(SALIL SANDIP KUJUR)

Indian Bureau of Mines