

**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 : **T003**) **S.THIRUNAVUKKARASU**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.Sendilkumar.K- Mines Manager & Shri.Vishnu Vasu
Official with
Designation
- (iv) Date of Inspection : 04/12/2019
- (v) Prev.inspection date : 22/02/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VILIPERINGIYAM LIMESTONE**
- (b) **Registration NO.** : **IBM/441/2011**
- (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 : 06/01/1987
- (h) Weekly day of rest : SUN
2. Address for : ULTRATECH CEMENTS LIMITED
correspondance REDDIPALAYAM POST, ARIYALUR TK - 621704
3. (a) Lease Number : TMN0991
- (b) Lease area : 43.4
- (c) Period of lease : 30
- (d) Date of Expiry : 24/04/2036
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/ : 29/10/2007
 Termination date

Mining Engineer

Name : SRI H.N.ASHOKA, Part Time
 Qualification : B.E(Mining)
 Appointment/ : 28/07/2010
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	04/11/1999
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	30/08/2004
		Modif.approved Mining Scheme	08/06/2005
		Renewal under rule 24 MCR1960	19/07/2011
		Mining Scheme rule 12 MCDR1988	04/10/2013
		MP review under 17(1) MCR 2016	20/01/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	Not applicable	47 nos. of core drilling for a total metreage of 1359.21 m.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NA	Mine Fully explored under G1 level
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	NA	47 nos. of core drilling for a total metreage of 1359.21 m. Hence, further no exploration is proposed during the plan period
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NA	47 nos. of core drilling for a total metreage of 1359.21 m. Drilled total lease area
1e	Balance reserve as on 01/04/20	---	0.382 Mil.T of proved reserves (As on 01.04.2019)	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	The geology, exploration is found to be satisfactory

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North block & South block	North block & South block	As per Plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches	Separate benches maintained	As per Plan
2c	Stripping ratio or ore to OB ratio	1: 0.23	1 : 0.81	NIL

2d	Quantity of topsoil generation in m3	6273 m3 (9409 Tonnes)	35418.652 m3 (53127.978 Tonnes)	
2e	Quantity of overburden generation in m3	1985 m3 (2978 Tonnes)	162,033.03 m3 (243,049.54 Tonnes)	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	development of pit foun satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 nos	2 nos	NIL
3b	Quantity of ROM mineral production proposed	292876 Tonnes	438288.68 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	85% of ROM	85% of ROM	
3d	Quantity of mineral reject generation	51684 Tonnes	58009 tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	+ 34% of CaO - 25% of CaO	+ 34% of CaO - 25% of CaO	
3f	Quantity of sub grade mineral generation.	NIL	NA	No sub grade mineral generation
3g	Grade of sub grade mineral generation	NIL	NA	No sub grade mineral generation
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	As per Plan

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NA	No beneficiation study proposed
3j	Provision of drilling and blasting in mineral benches	NIL	NA	NIL
3k	Provision of mining machineries in mineral benches	Rock breaker, Excavator & Tippers are used	Rock breaker, Excavator & Tippers are used	As per Plan
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 Meter	6 Meter	As per Plan
3m	Total area covered under excavation/pits	47.34 Ha	47.34 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.23	1 : 0.81	
3o	Total area put in use under different heads at the end of year	47.34 Ha	47.34 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2014-15 799981 T 2015-16 800001 T 2016-17 799996 T 2017-18 294765 T 2018-19 292876 T	2014-15 587166 T 2015-16 294484 T 2016-17 209985 T 2017-18 296940.61 T 2018-19 438288.68 T	
3q	General remarks of inspecting officers on method of mining etc.	----	----	Method of mining is found 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 Proposed	Separate dumps available	As per plan
4b	Location of topsoil, OB and mineral reject dumps	Backfilling	Backfilling	As per plan
4c	Number of dumps within lease area and outside of lease area	2 within lease area	2 within lease area	No dumping carried out outside of lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No waste or topsoil dump proposed, backfilling proposed	backfilling	The total generated waste is utilizing for backfilling in the south pit .
4e	Number of active and alive dumps.	NIL	NA	backfilling Progressive
4f	Number of dead dumps.	2	2	As per plan
4g	Number of dumps established.	NIL	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	No Retaining wall or garland drain is proposed during 2018-19	NIL	As per plan
4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	NIL
4j	Number of settling ponds	NIL	1	NIL
4k	Specific comments of inspecting officer on waste dump management	----	----	waste dump management is 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	Backfilling	Backfilling

5b	Area under backfilling of mined out area	5.40 hect	0.74 hect	Backfilling is under progress
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	As per plan
5d	Total area fully reclaimed and rehabilitated	5.40 hect	0.74 hect	Backfilling is under progress
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	----	Backfilling is under progress

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	Submitted on time and correctly for the year 2018-19.	Submitted
6b	Area available for rehabilitation (ha) .	5.40 hect	0.74 hect	As per plan
6c	afforestation done (ha).	1.53 hec	1.53 hect	As per plan
6d	No. of saplings planted during the year	3060 saplings	3060 saplings	As per plan
6e	Cumulative no .of plants	---	50835 nos	NIL
6f	Any other method of rehabilitation	NIL	NA	No other method of rehabilitation
6g	Cost incurred on watch and care during the year	----	8.5 lakhs	NIL
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	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation 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.	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)	NIL	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NIL	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	8 Air Stations, 6 Water stations & 9 Noise stations	8 Air Stations, 6 Water stations & 9 Noise stations	NIL

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	PMCP compliance & progressive closure operations is found 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	292876 Tonnes	438288.68 Tonnes	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.	NIL	NA	All meterial send to factory foe manufacturing of cement
7d	Any beneficiation process at mines	NIL	NA	No
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	PMCP compliance & progressive closure operations is found satisfactory

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil propopsed for afforestation	Top soil used for afforestation	NIL
8b	Concurrent use or storage of topsoil	Top soil propopsed for afforestation	Top soil used for afforestation on backfilled area	NIL

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Separate dumps available	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Overburden used for backfilling	Overburden used for backfilling	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	plantation propose	Backfilled area is restored by plantation	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3060 nos plantation carried out in 1.53 hect area with Survival rate of 80%.	3060 nos plantation carried out in 1.53 hect area with Survival rate of 80%.	As per plan
8g	Survival rate	80%	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkler available on roads to control airborne dust	As per plan
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	---	Aesthetic beauty in and around mines area is found satisfactory

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given in the format	Monthly returns submitted before 10th of every month. Annual Return already submitted for the year 2018-19	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in the format	Mining Engineer - Sendilkumar. K Geologist - Vishnu Vasu Manager- Sendilkumar. K	Part-I Sl.No.8&9 & Part-II, Employment & Wages
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format	Covered under current working =21.300 ha Reclamation=11.170 ha Buildin etc..=0.150 ha Green belt = 10.540 ha	
9d	Scrutiny of Annual return on afforestation	Given in the format	3060 saplings	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in the format	0	Part-V General Geology, Sl.No.4.2(B)
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format	0	Part-VI, Sl.No.2
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Ex. Mine price== NIL production cost=Rs.187.75	PART - VII (COST OF PRODUCTION)
9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs.3547064386	PART III, Sl.No. 4
9k	Scrutiny of Annual return on mining machineries	Given in the format	SHOVEL (HYDRAULIC)1.200cum - 1 Nos DOZER-160.00 HP - 1 Nos OTHER HEM MACHINERY- 1 Nos WATER TANKER- 1 nos AIR COMPRESSOR- 1 nos TIPPER 10.000CUM - 7 Nos	PART - V (General Geology & Mining) Sl.No.5

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
MCDR17	Rule 11(1)	02/03/2020			

Date :

(S.THIRUNAVUKKARASU)

Indian Bureau of Mines