

**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 : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sendil kumar.K - Mines Manager & GSS Naidu Adabala -
Official with
Designation
- (iv) Date of Inspection : 30/01/2021
- (v) Prev.inspection date : 04/12/2019

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 : 50
- (d) Date of Expiry : 19/03/2056
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	Nil	55 nos. of core drilling for a total meterage of 1575.28 m already carried out
1b	Exploration over lease area for geological axis 1 or 2	G-1	G-1	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	-	0.227 Mil.T of proved reserves	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	N-1224933 to N-1225119 / E-297679 to E-297857 N-1224763 to N-1224948 / E-297919 to E-298190	N-1224933 to N-1225119 / E-297679 to E-297857 N-1224763 to N-1224948 / E-297919 to E-298190	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Separate benches maintained	As proposed
2c	Stripping ratio or ore to OB ratio	1: 0.25 (Tonne : Tonne)	1: 1.55 (Tonne : Tonne)	Stripping ratio increased due to lower ROM production than planned & increased top soil removal

2d	Quantity of topsoil generation in m3	24842	144989.85	Nil
2e	Quantity of overburden generation in m3	Nil	Nil	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	2 no.	2 no.	As per plan
3b	Quantity of ROM mineral production proposed	529300 T	155048.14 T	Production is less as per plant requirement.
3c	Recovery of sailable/usable mineral from ROM production	85% of ROM	30% of ROM	Nil
3d	Quantity of mineral reject generation	93406 T	23257.22 T	Within limit
3e	Grade of mineral rejects generation and threshold value declared.	below 34% of CaO	below 34% of CaO	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Nil	Nil	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	Nil	Nil	Non-conventional mining using rock-breakers carried out
3k	Provision of mining machineries in mineral benches	Rock breaker, Excavator & Tippers proposed	Rock breaker, Excavator & Tippers used	As proposed
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	-	0.430 ha	Worked out benches backfilled
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.25 (Tonne : Tonne)	1: 1.55 (Tonne : Tonne)	Ore to OB ratio decreased due to increased decreased production of ROM & increased handling of top soil

3o	Total area put in use under different heads at the end of year	-	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 (ii) Covered under current (O/C) Workings 0.430 (iii) Reclaimed/Rehabilitated 29.530 (iv) Used for waste disposal 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.150 (vi) Other Purpose (Green Belt & Safety Zone) 12.130 (vii) Work done under progressive mine closure plan during the year 0.790	Worked out benches backfilled
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 800001 T 2016-17: 799996 T 2017-18: 294765 T 2018-19: 292876 T 2019-20 529300 T	2015-16: 294484.19 T 2016-17: 209985.75 T 2017-18: 296940.61 T 2018-19: 438289.00 T 2019-20 155048.14 T	ROM production within limit during the year. Order of suspension issued for over-production during the year 2018-19.
3q	General remarks of inspecting officers on method of mining etc.	-	-	Order of Suspension issued for over-production during the year 2018-19.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumping not proposed. Only Backfilling proposed.	No dumping carried out. Only backfilling carried out.	As proposed
4b	Location of topsoil, OB and mineral reject dumps	Dumping not proposed. Only Backfilling proposed.	No dumping carried out. Only backfilling carried out.	As proposed

4c	Number of dumps within lease area and outside of lease area	Nil	Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	Nil
4e	Number of active and alive dumps.	Nil	Nil	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	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	All waste/rejects/top soil utilised in backfilling worked out benches

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 proposed	Backfilling carried out	As proposed
5b	Area under backfilling of mined out area	0.75 Ha	0.75 Ha	As proposed
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Carried out	As proposed

5d	Total area fully reclaimed and rehabilitated	-	29.53 ha	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).	-	Submitted	Submitted in time
6b	Area available for rehabilitation (ha) .	0.75 Ha	0.75 Ha	Backfilling proposed & carried out
6c	afforestation done (ha).	4.65 ha	4.526 ha	Afforestation done on backfilled area
6d	No. of saplings planted during the year	9300	2888	Afforestation done on backfilled area.
6e	Cumulative no .of plants	--	23413 nos	Nil
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	65 X 89 X 15	65 X 89 X 15	As per plan
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Waste	Waste	As per plan

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	4.65 ha	4.526 ha	Afforestation done on backfilled area
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	NA	NA	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out	Complied
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	No sorting proposed	No sorting carried out	As proposed
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	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

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Carried out	Nil
8b	Concurrent use or storage of topsoil	Proposed	Carried out	Spread over backfilled areas
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No dumping proposed. Only backfilling proposed.	No dumping carried out. Only backfilling carried out.	As proposed
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Carried out	Worked out benches backfilled by waste/rejects

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Carried out	Worked out benches backfilled
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	--	Cumulative 23,413 nos of saplings planted till date	Nil
8g	Survival rate	80%	50%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	As proposed
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	Given	Submitted on 05-03-2021	Referred back twice
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given in Part I, Sl 2	Manager Mr. Sendil Kumar. K Mining Engineer in charge Mr. Sendil Kumar. K Geologist in charge Mr. GSS Naidu Adabala	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part I, Sl 12	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 (ii) Covered under current (O/C) Workings 0.430 (iii) Reclaimed/Rehabilitated 29.530 (iv) Used for waste disposal 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.150 (vi) Other Purpose (Green Belt & Safety Zone) 12.130 (vii) Work done under progressive mine closure plan during the year 0.790	Nil
9d	Scrutiny of Annual return on afforestation	Given in Part V, Sec 4. Mining Operations during the year	4.4 (i) Number of trees planted during the year (a) Within lease area 2888 (b) Outside lease area 0 (ii) Species 0 (iii) Survival rate in percentage 50.00	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given in Part V, Sec 4 - Mineral Rejects for Limestone	4.2 (B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade 0	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in Part VI, Sl 1 & 2	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 155048.140 0.000	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part VI, Sl 2 & Part VII	Ex-Mine Price / Cost of Production - Rs 198.86	Nil
9h	Scrutiny of Annual return on fixed assets	Given in Part II(A)(Capital Structure)	Net Total Assets - Rs 16,18,43,842/-	Nil
9k	Scrutiny of Annual return on mining machineries	Given in Part V, Sec 5/6/8/9	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) SHOVEL (HYDRAULIC) 1.200 CUM 2 Non Electrical Opencast DOZER 160.000 HP 1 Non Electrical Opencast OTHER HEM MACHINERY 20.000 1 Non Electrical Opencast WATER TANKER 10000.000 LITRE 1 Non Electrical Opencast TIPPER 10.000 CUM 7 Non Electrical Opencast PUMPS (ELEC.) 800.000 L/MN 2 Electrical Opencast	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 :

(Matiul Islam)

Indian Bureau of Mines