

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/PBR/LST-63.Mds

Mine code : 38TMN24069

- (i) Name of the Inspecting : **M017**) **Matiul Islam**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Mr A Aravindan (Mine Engineer) & Mr Manoharan Singara
Official with
Designation
- (iv) Date of Inspection : 16/11/2020
- (v) Prev.inspection date : 06/11/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VARAGUPADI-54.68 HA**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : PERAMBALUR
- Village : Varagupadi
- Taluka : Alathur
- Post office : Varagupadi
- Pin Code : 621113
- FAX No. : 04329249253
- E-mail : manoharan.singaraja@adityal
- Phone : 04329249240
- (f) Police Station : ARIYALUR
- (g) First opening date : 23/12/2016
- (h) Weekly day of rest : SUN
2. Address for : M/s ULTRATECH CEMENT LIMITED
correspondance B Wing, Ahura Centre, 2nd FloorMahakali Caves Ro
Andheri (E) , Mumbai-400093
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : ULTRATECH CEMENT LIMITED
 KARUR TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : A. Baranidharan, Full Time
 Qualification : B.TECH IN MINING
 Appointment/ : 19/02/2018
 Termination date

Geologist

Name : S. MANOHARAN, Full Time
 Qualification : M.SE GEOLOGY AND FIRST CLASS CERTIFICATE
 Appointment/ : 19/02/2018
 Termination date

Manager

Name : S.MANAOHARAN
 Qualification : M.SE IN GEOLOGY WITH FIRST CLASS
 Appointment/ : 19/02/2018
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 15/07/2014
 Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 17/08/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Total lease area already explored under G1 axis.
1b	Exploration over lease area for geological axis 1 or 2	G-1	G-1	Total lease area already explored.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	Total lease area already explored
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	1.975 MT	Nil
1e	Balance reserve as on 01/04/20	-	1.975 mil. 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	N-1232979 to N- 1233193/E-271588 to E-271848	N-1232979 to N-1233193/E-271588 to E-271848	As per plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	As per plan
2c	Stripping ratio or ore to OB ratio	1: 1.00 (Tonne : Tonne)	1: 0.75 (Tonne : Tonne)	OB ratio is less due to less Production.
2d	Quantity of topsoil generation in m3	Nil	Nil	As per plan
2e	Quantity of overburden generation in m3	50,823 m3 (91,482 T)	31,089.44 m3 (55,961 T)	OB quantity is less due to less Production.

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	2	2	As per proposal
3b	Quantity of ROM mineral production proposed	102,900 T	89,989.46 T	Production is less due to lockdown for COVID-19.
3c	Recovery of sailable/usable mineral from ROM production	90% of ROM	90% of ROM	As per proposal
3d	Quantity of mineral reject generation	11433 T	11433 T	As per proposal
3e	Grade of mineral rejects generation and threshold value declared.	Below 30% of CaO	Below 30% of CaO	As proposed
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
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	Nil

3k	Provision of mining machineries in mineral benches	Rock breaker, Excavator & Tippers proposed	Rock breaker, Excavator & Tippers used	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 Meter	6 Meter	Suitable for method of mining
3m	Total area covered under excavation/pits	1.80 Ha.	1.45 Ha	Within Limits
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.00 (Tonne : Tonne)	1: 0.75 (Tonne : Tonne)	Within limits
3o	Total area put in use under different heads at the end of year	29.12 Ha	28.77 Ha	Within Limits
3p	Production of ROM mineral during the last five year period as applicable	2017-18 10,343 2018-19 65,259 2019-20 102,900	2017-18 12,357.18 2018-19 70,218.62 2019-20 89,989.46	Within limits
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 proposed	Separate Dumps maintained	As per plan
4b	Location of topsoil, OB and mineral reject dumps	Waste Dump Proposed at South-West corner	Waste Dump maintained at South-West corner	As per plan
4c	Number of dumps within lease area and outside of lease area	Within lease - 2	Within lease - 2	As per plan

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	As per plan
4e	Number of active and alive dumps.	2	2	As per plan
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	Nil	Nil	Nil
4j	Number of settling ponds	Nil	Nil	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 will be carried out after complete extraction of Limestone	Mineral extraction not complete. Backfilling not being done.	As per proposal
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	No top soil generation.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	Satisfactory
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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).	-	Submitted in time for the year 2019-20.	Submitted
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	2.0 Ha	0.1 Ha	Violation issued
6d	No. of saplings planted during the year	5000 nos	200 nos	Violation issued
6e	Cumulative no .of plants	--	200	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	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	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	Nil	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.	-	-	Violations issued. Compliance awaited.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	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	Nil	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)	Nil	Nil	No top soil encountered during the year
8b	Concurrent use or storage of topsoil	Nil	Nil	No top soil encountered
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	Separate dumps maintained
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling not proposed	Backfilling not carried out	As per proposal

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	To be carried out upon exhaustion of mineral
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	200 nos of saplings planted during the reporting year	Violation issued over inadequate afforestation
8g	Survival rate	-	60%	Nil
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Violation issued over inadequate afforestation.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted in time.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Engineer - A. Aravindan Geologist- S. Manoharan Manager- S. Manoharan	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in Part-I Sl.No.-12	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 1.738 1.738 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.140 0.140 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.200 0.200 (vi) Other Purpose ((Road&Others)) 0.000 26.020 26.020 (vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000	Nil
9d	Scrutiny of Annual return on afforestation	Given in Part-V Section 4.4	4.4 (i) Number of trees planted during the year (a) Within lease area 200 (b) Outside lease area 0 (ii) Species 0 (iii) Survival rate in percentage 60.00	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 11433 b. Grade Low grade	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in Part-VI Sl.1	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 89989.460 0.000	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in Part- VI Sl.2	(e) Cement 0.000 89989.460 89989.460 0.000 213.39	Nil
9h	Scrutiny of Annual return on fixed assets	Given in Part- IIA Capital Structure	Total 168067084 0 1365375 0 166701709 0	Nil
9k	Scrutiny of Annual return on mining machineries	Given in Part V, Section 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) 0.900 CUM 2 Non Electrical Opencast OTHER HEM MACHINERY 20.000 1 Non Electrical Opencast TIPPER 10.000 CUM 10 Non Electrical Opencast WATER TANKER 4000.000 LITRE 1 Non 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
MCDR17	Rule 11(1)	12/01/2021			

Date :

(Matiul Islam)

Indian Bureau of Mines