

**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 : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : R.venkatachalam mines manager and Fredly mathews geol
Official with
Designation
- (iv) Date of Inspection : 15/07/2023
- (v) Prev.inspection date : 26/09/2022

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 :

Owner : K.C.Jhanwar
 Ultra Tech Cement Limited,
 Aditya Birala
 Cement,S.K.Ahire Marg
 Worli,Mumbai MUMBAI
 (SUBURBAN) MAHARASHTRA
 Phone:
 FAX : 04329-249253

Agent : JA.Sajendra kumar
 Ultratech cements Ltd.
 Reddipalayam post Ariyalur
 DT. ARIYALUR TAMIL NADU
 Phone:
 FAX :

Mining Engineer

Name : R.Venkatachalam,Full Time
 Qualification : BE(MINING)
 Appointment/ : 02/05/2023
 Termination date

Geologist

Name : Fredy Mathews,Full Time
 Qualification : M.Sc. (Geology) M. Phil.
 Appointment/ : 09/11/2021
 Termination date

Manager

Name : R.venkatachalam
 Qualification : BE(MINING)
 Appointment/ : 02/05/2023
 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	Entire ML area already explored.
1b	Exploration over lease area for geological axis 1 or 2	G1 Axis	G1 Axis	Entire Mining Lease area explored by drilling upto 40m depth.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal.	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Entire area already explored.
1e	Balance reserve as on 01/04/20	—	1.5 million tonnes as on 01/04/2023.	NIL
1f	General remarks of inspecting officers on geology, exploration etc	—	—	Sufficient exploration carried out. 24 core bore holes drilled. satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1233010 - 123095 E 271580- 271685	N 1233010 -123095 E 271580- 271685	As per proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	separate benches proposed.	separate benches maintained in OB and ore .3 benches in ore and 1 bench in OB.	As per proposal.
2c	Stripping ratio or ore to OB ratio	1: 0.09	1: 0.21	NIL
2d	Quantity of topsoil generation in m3	NIL	NIL	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,
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit.	One pit.	As per proposal.
3b	Quantity of ROM mineral production proposed	87273 tonnes including mineral rejects.	86,894 tonnes.including mineral rejects.	With in limits.
3c	Recovery of sailable/usable mineral from ROM production	90% of ROM	90% of ROM	NIL
3d	Quantity of mineral reject generation	7,273 tonnes	6900 tonnes.	NIL
3e	Grade of mineral rejects generation and threshold value declared.	30-34 % CaO.	Below 30 % CaO and silica above 25%.	Blending Low grade Limestone with high grade Limestone from other captive mines.
3f	Quantity of sub grade mineral generation.	8562 tonnes	6900	with in limit.
3g	Grade of sub grade mineral generation	Above 30% CaO and Below 34% CaO.	As per proposal.	All low grades are used by blending with high grade limestone mineral from other captive mines.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised method.	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 drilling and blasting proposed.	Rock breaker, Excavator & Tippers are used	NIL
3k	Provision of mining machineries in mineral benches	Yes, proposed 6m height and 6m width benches proposed.	height of the bench exceeded the proposal.	Violation of Rule 11(1) pointed out.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m height and 6 m width proposed.	Height of bench more than proposed height.	Violation pointed out.
3m	Total area covered under excavation/pits	4.46 Hc (Till end of plan period)	3.485	with in limits.
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.09	1: 0.21	NIL
3o	Total area put in use under different heads at the end of year		current workings - 3.485 hc. waste disposal - 0.870 hc, infrastructure - 0.210 hc, others - 50.115 hc.	
3q	General remarks of inspecting officers on method of mining etc.	—	—	Bench height not maintained as per proposal , violation pointed 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 Dumping proposal has given for OB & Reject	Separate dump for OB and Rejects maintained.	NIL
4b	Location of topsoil, OB and mineral reject dumps	N1232715 - 1232800/E 271925- 271965.	N1232715 - 1232800/E 271925- 271965	NIL
4c	Number of dumps within lease area and outside of lease area	2 dumps.	2 dumps.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	With in UPL	With in UPL	NIL

4e	Number of active and alive dumps.	2	2	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	NIL	NIL	NIL
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	—	—	Dums maintenance 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.	No backfilling Proposed	NIL	NIL
5b	Area under backfilling of mined out area	No proposal	NIL	No
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	Hardly any topsoil present.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Mine not reached ultimate depth.

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.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	Mine workings not matured for reclamation and rehabilitation.
6c	afforestation done (ha).	2.67 Hc.	2.8 Hc.	NIL
6d	No. of saplings planted during the year	2960 saplings.	4000 saplings.	NIL
6e	Cumulative no .of plants	10000	12200	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	592000/-	959600/-	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	NA	Mine workings are in advancing state.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	NA	Mine workings are in advancing state.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	NA.	Mine workings are in advancing state.

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	No proposal.	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	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Quarterly monitoring done.	with in limits only.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	PMCP compliance satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	80,000 tonnes	79994.4 tonnes	with in limits.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal.	No grade wise separation.	Entire ROM consumed.
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	—	—	All grades of Limestone consumed. Satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	NIL	NIL
8b	Concurrent use or storage of topsoil	NIL	NIL	Topsoil already removed utilised for plantation purpose.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed.	2 dumps maintained for waste rock.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	NA	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	NA	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2960 saplings during 2022-23	Around 10000 sofor cumulatively done.	NIL

8g	Survival rate	—	80%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposed.	sprinkling is being done on roads to control airborne dust	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Area is devoid of topsoil, efforts made by lessee to plant and grow plantation. Satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Monthly and AR for the period 2022-23 submitted.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	Mine Manager and Mining engineer - R. Vengatasalam Geologist - Fredy Mathews	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	current workings - 3.485 HC. Waste disposal - 0.87 HC. Infra structure - 0.21 HC, Others(specify) greenbelt and safety zone -50.115 HC	Furnished under part-1,item-12.
9d	Scrutiny of Annual return on afforestation	Details given	4000 saplings planted with in ML area against proposal of 2960	Part-V, item-5.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given.	6900 tonnes generated against proposal of 7273 tonnes.	Part-V,item -3
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given.	79994 tonnes	part-IV, item-1.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Ex.mine price and cost of production Rs.301.30.	Part-VI, item-3(ii) and Part VII ,Table.
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs.25413643	Part-IIA,table.

9k	Scrutiny of Annual return on mining machineries	Details given.	Sovel 0.9 Cum - 1 Nos OHM 20 - 1 Tippers 9.090 cum- 19 Dozer 175HP-1, Water tanker -1.	Part-5,item-6.
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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)	31/07/2023			

Date :

(D.CHANDRA SEKHAR REDDY)

Indian Bureau of Mines