

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

MCDR inspection REPORT

Chennai regional office

Mine file No : TN/ALR/LST-26.MDS

Mine code : 38TMN38041

- (i) Name of the Inspecting : **D009**) **D.CHANDRA SEK HAR REDDY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sumantha Das, Geologist.
Official with
Designation
- (iv) Date of Inspection : 27/11/2023
- (v) Prev.inspection date : 13/12/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ALANTHURAIYARKATTALAI**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TAMIL NADU
- District : ARIYALUR
- Village : ALANTHURAIYARKATTALA
- Taluka : ARIYALUR
- Post office : SUNDARKUDI
- Pin Code : 621704
- FAX No. : 043219-249253
- E-mail : sendilkumar.k@adityabirla.c
- Phone : 043219-249240
- (f) Police Station : Ariyalur
- (g) First opening date : 17/10/2012
- (h) Weekly day of rest : SUN
2. Address for : REDDIPALAYAM CEMENT WORKS
correspondance REDDIPALAYAM PO
ARIYALUR TALUK & DISTRICT
3. (a) Lease Number : TMN1598
- (b) Lease area : 8.14
- (c) Period of lease : 50
- (d) Date of Expiry : 12/12/2062
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : ULTRATECH CEMENT LIMITED
 POST-REDDIPALAYAM, TEHSIL-
 ARIYALUR ARIYALUR TAMIL
 NADU
 Phone:022-66917800
 FAX :022-66928109

Owner : JHANWAR.K.C
 Ultra Tech Cement
 Ltd.Aditya Birla S.K. Ahire
 Marg, Worli, Mumbai.
 GREATER BOMBAY MAHARASHTRA
 Phone: 022-66917800
 FAX : 022-66928109

Agent : K.Karunakar Rao
 Ultra tech cements Ltd.
 Reddypalayam works &PO
 Ariyalur Dt. ARIYALUR TAMIL
 NADU
 Phone:
 FAX :

Mining Engineer

Name : Mr Sudharsan R,Full Time
 Qualification : BE,Mining
 Appointment/ : 25/09/2022
 Termination date

Mining Engineer

Name : Anand Priyan,Full Time
 Qualification : BE(MINING)
 Appointment/ : 15/06/2023
 Termination date

Mining Engineer

Name : P.ARUNKUMAR,Full Time
 Qualification : B.E(MINING)
 Appointment/ : 01/03/2023
 Termination date

Geologist

Name : Mr Uttam Singh,Full Time
 Qualification : MSc PhD(Geology)
 Appointment/ : 22/05/2022
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	03/01/2005
Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	03/01/2006
	:	MP review under 17(1) MCR 2016	20/01/2017
	:	MP review under 17(1) MCR 2016	03/12/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Exploration already carried out.
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	Entire lease area covered under G1 category.
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	Entire lease area covered under G1 category.
1e	Balance reserve as on 01/04/20	—	870011 tonnes as on 01/04/2023	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	NIL	No proposal for development.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed.	Top Soil-1 Ore - 1	NIL
2c	Stripping ratio or ore to OB ratio	1: 0.05	1: 0.0.75	NIL
2d	Quantity of topsoil generation in m3	3505 M3	3600 M3	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	One	As per proposal.
3b	Quantity of ROM mineral production proposed	78,254 tonnes	78258.69 tonnes.	NIL
3c	Recovery of sailable/usable mineral from ROM production	90 % of ROM	As per proposal.	NIL
3d	Quantity of mineral reject generation	7114 tonnes.	7150 tonnes.	NIL
3e	Grade of mineral rejects generation and threshold value declared.	Below 35% of CaO	Below 35% of CaO	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	NIL	NIL	Non-conventional methods adopted.

3k	Provision of mining machineries in mineral benches	Provisions made.	Rock breaker, Excavator & Tippers are used	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes, 6m height benches proposed.	6m height benches maintained.	NIL
3m	Total area covered under excavation/pits	3.100 Ha.	As per proposal.	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.05	1: 0.0.75	NIL
3o	Total area put in use under different heads at the end of year	Covered under workigs - 3.10 Hc,Reclaimed - 2.2 Hc.,Waste disposal - 0.97 Hc., Roads & buildings - 0.02 Hc.,Others - 3.46 Hc.	Covered under workigs - 3.10 Hc,Reclaimed - 2.2 Hc.,Waste disposal - 0.97 Hc., Roads & buildings - 0.02 Hc.,Others - 3.46 Hc.	NIL
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - 71194 tonnes. 2019-20 - 71184 tonnes 2020-21 - 71188 tonnes 2021-22 - 71186 tonnes 2022-23 - 71166 tonnes.	2018-19 - 71146.46 tonnes. 2019-20 - 70996.54 tonnes. 2020-21 - 55904.88 tonnes. 2021-22 - 71082.13 tonnes. 2022-23 - 71108.69 tonnes.	NIL
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)	NIL	NIL	NIL

4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	Generated waste is Backfilled as per ROMP.
4c	Number of dumps within lease area and outside of lease area	Within the Lease -2	Within the Lease -2	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within 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	Existing garland drain desilted before monsoon
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	—	—	backfilling is carried out. 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.	Concurrent Backfilling	Concurrent Backfilling	Overburden used for backfilling as per ROMP proposal
5b	Area under backfilling of mined out area	0.370	0.370	NIL

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes.	Topsoil used for plantation prupose over backfilled area.	NIL
5d	Total area fully reclaimed and rehabilitated	—	0.220 Hc	Plantation done.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	—	—	Backfilling in progress. 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.	Submitted.	NIL
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.27 hc	0.27 hc	Green belt devlopment done.
6d	No. of saplings planted during the year	540 saplings.	550 saplings.	NIL
6e	Cumulative no .of plants	3000	3240	NIL
6f	Any other method of rehabilitation	NIL	NIL	NIL
6g	Cost incurred on watch and care during the year	Rs. 20250	Rs. 27500	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.27 hc	0.27 hc.	NIL

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.27 hc	0.27 hc.	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	0.27 hc.	0.27hc.	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	NIL	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment Monitoring proposed.	Quarterly report on environment monitoring submitted.	All parameters within limits.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	—	—	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	71140 tonnes	71108.69 T	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised.	Mechanised.	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	—	—	No mineral conservation problem.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil will be removed and concurrently spread over the backfilled area for plantation	Topsoil removed was utilised as per proposal.	NIL
8b	Concurrent use or storage of topsoil	Concurrent use	Concurrent use	NIL

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Within the Lease -2 (OB-1 & TopSoil-1)	Within the Lease -2 (OB-1 & TopSoil-1)	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed.	Topsoil & Mineral reject used for backfilling	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3790	3990	Continuous Greenbelt development is being carried out.
8g	Survival rate	85%	75%	NIL
8h	Water sprinkling on roads to control airborne dust	Proposal given.	water sprinkling is being done on roads	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	—	—	Plantation done .satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes.	Monthly and Annual returns for the year 2022-23 submitted.	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given.	P.Arun kumar-Manager. Ananda priyan - mining engineer Uttam singh - geologist.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	Current workings - 3.10 hc., Reclaimed-rehabilitated 0.22 hc., waste disposal - 0.97hc., Roads & buildings - 0.02 hc., others - 3.46 hc.	NIL
9d	Scrutiny of Annual return on afforestation	Details given.	550 saplings.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given.	7150 tonnes.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details furnished.	71108.690 tonnes.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given.	Cost of production - Rs.250.59	NIL
9h	Scrutiny of Annual return on fixed assets	Details given.	Rs.3664525	NIL
9k	Scrutiny of Annual return on mining machineries	Details given.	Tippers - 9, Rock breaker 9HEM)-2, Back-hoe-1, water tanker-1	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 33	18/12/2023			

Date :**(D.CHANDRA SEKHAR REDDY)**

Indian Bureau of Mines