

INDIAN BUREAU OF MINES
MINERAL DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/PBR/LST-63.MDS		Mine Code: 38TMN24069
	Name of the inspecting officer	Matiul Islam Assistant Controller of Mines
	Date of inspection	11.12.2024
	Accompanied mine official and designation	Shri. Vengatasalam. R - Mine Manager/Mining Engineer Shri. K. Gokulnath - Geologist

PART-I: General Information

S. No.	Particulars	Details
1	Name of the Mine	Varagupadi Limestone Mine (ML - 8)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non- Forest - Patta land - 54.68 Ha Forest - NIL
3	Mine code	38TMN24069
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/441/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin - 621731 Phone: 04329-249240 &249249 Fax: 04329-249253/249363
6	Village	Varagupadi
7	Taluka/Mandal	Atathur
8	District	Perambalur
9	Pin code	621113
10	State	Tamilnadu
11	Post office	Varagupadi
12	Nearest police station	Padalur
13	Nearest railway station	Sillakkudi
14	Date of Grant of Mining Lease	23.12.2016
15	Date of Execution	Lease Execution - 10.01.2017 & Lease Registration -11.01.2017
16	Date of opening of mine	19.02.2018
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri. K.C. Jhanwar Nominated Owner, UltraTech Cement Limited, Aditya Birla Centre, S.K. Ahire Marg, Worli, Mumbai - 400030. Email id - sendilkumar.k@adityabirla.com Date of Appointment - 19.10.2018
21	Name of the Mine Agent with address, phone, email, fax number and date of appointment	Shri. Karunakara Rao Karanam Mine Agent UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin - 621731 Phone - 04329-249240 Email ID - karunakara.rao@adityabirla.com Date of Appointment - 01.12.2023
22	Name of the Mines Manager with address, phone, email, fax number and date of appointment in mines	Shri. Vengatasalam. R, Mine Manager Aditya Gramam, NN-37, UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin - 621704

		Mob-9962566705 vengatasalam.r@adityabirla.com Date of appointment - 02.05.2023
23	Name of the Mines Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in mines	Shri. Vengatasalam. R -- Mine Engineer Qualification- BE Mining Total- 15 years' Experience. Aditya Gramam, NN-41, UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin - 621704 Mob-9962566705 Date of appointment - 02.05.2023
24	Whether Geologist and Mining Engineer appointed in mines satisfy the Rule 42 & carrying out their duties as per rule 43 & 44.	K.Gokulnath (Geologist) Date of appointment - 06.11.2024 Shri. Vengatasalam. R -- Mine Engineer Date of appointment - 02.05.2023
25	Date of Approval of Mining Plan/Modified Mining Plan with five - year period and specific condition in approval letter, if any.	1. TN/PBR/MP/LST-1907-SZ/974, Dated 17.07.2014 (2016-17 to 2020-21) 2. TN/PBR/MP/LST-2033- MDS, Dated 18.08.2017 (2017-18 to 2020-21)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five - year period and specific condition in approval letter, if any.	1. TN/PBR/LST/ROMP-1636.MDS, Dated 07.01.2021 (2021-22 to 2025-26) 2. TN/PBR/LST/MMP-2097.MDS, dated 29.09.2023 (2023-24 to 2025-26)
27	Mineral(s) granted in lease and proved for Mining	Limestone
28	Method of Mining (Opencast, underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Category 'A' - Fully Mechanized
30	Captive / Non-Captive	Captive

EXPLORATION (2023-24)

S. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	Potentially mineralized area already fully explored
1b	Exploration over lease area for Geological axis 1 or 2.	G-1	G-1	Nil
1c	Exploration Agency & 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 reserves as on 01.04.2024 (111+121 Category)	14,26,258.99 Tons	14,57,125.22 Tons	Nil
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exploration of the lease were found satisfactory.

DEVELOPMENT (2023-24):

S. No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	N 1233162- 1232957 E 271591- 271832	N 1233162- 1232957 E 271591- 271832	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 13 of MCDR-2017)	Topsoil-1 Ore - 2 OB-2	Topsoil-1 Ore - 2 OB-2	As proposed
2c	Stripping ratio or ore to OB ratio	1: 0.98 (Tonne: Tonne)	1: 1.21 (Tonne: Tonne)	Within acceptable limit
2d	Quantity of topsoil generation in m ³	8,806.84	7,347	Within limit
2e	Quantity of overburden generation in m ³	71,178.48	67,582	Within limit
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	-	-	Development of pit w.r.t. type of deposit was found satisfactory

Exploitation (2023-24):

S. No.	Item	Proposals	Actual Work	Remarks
3a	Number of Pit proposed for production	1	1	As proposed
3b	Quantity of ROM mineral production proposed	131106.80 T	100240.78 T	Within limit
3c	Recovery of salable/usable mineral from ROM production	117996.12 T	100240.78 T	Within limit
3d	Quantity of mineral reject generation	13110.68 T	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Below 30% of CaO	Below 30% of CaO	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	NA
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	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 practiced without drilling and blasting
3k	Provision of mining machineries in mineral benches	Rock breaker, Excavator & Tippers proposed	Rock breaker, Excavator & Tippers deployed	As proposed
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	3.82 Ha	3.82 Ha	Within limit
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.98 (Tonne: Tonne)	1:1.21 (Tonne: Tonne)	Within acceptable limit
3o	Total area put in use under different heads at the end of year	Pit- 3.82 Dump-1.72 Infrastructure-0.17	Pit- 3.82 Dump-1.31 Infrastructure-0.17	Within limit
3p	Production of ROM mineral during the last five-year period as applicable	2019-20: 1,02,900 2020-21: 1,50,561 2021-22: 80,320 2022-23: 80,000 T 2023-24: 117996.12 T	2019-20: 89989.46 2020-21: 150560.83 2021-22: 61906.42 2022-23: 79994.4 T 2023-24: 100240.78 T	Within limit
3q	General remarks of inspecting officers on method of mining etc.	-	-	Method of mining was found satisfactory

SOILD WASTE MANAGEMENT-DUMPING (2023-24):

S. No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 36,37)	Top Soil Storage & Concurrent use proposed, OB dumping proposed.	Top Soil used concurrently & stored separately, OB dumped separately	As proposed
4b	Location of topsoil, OB and mineral reject dumps	N 1232792 - 1232767 E 271878- 272041.	N 1232792 - 1232767 E 271878- 272041.	As proposed
4c	Number of dumps within lease area and outside of lease area	Within the Lease -2	Within the Lease - 2	As proposed
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL 2	As proposed
4e	Number of active and alive dumps.	2	2	As proposed
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.	No proposal for the year	Nil	Garland drains proposed in the subsequent year of the plan period
4i	Length of Retaining wall or garland drain all along dumps	No proposal for the year	Nil	Garland drains proposed in the subsequent year of the plan period
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dump management was found satisfactory

SOLID WASTE MANAGEMENT-BACKFILLING (2023-24):

S. No.	Item	Proposals	Actual Work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No backfilling Proposed	No backfilling undertaken	As proposed
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)	Concurrent use of Top Soil proposed	Top soil stored and used concurrently	Top soil used in afforestation
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc	-	-	No backfilling or reclamation was proposed or carried out.

PROGRESSIVE MINE CLOSURE PLAN (2023-24):

S. No.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26 (2).	NA	Submitted	Along with AR
6b	Area available for rehabilitation (ha).	Nil	Nil	Nil
6c	Afforestation done (ha).	1.68	1.68	As proposed
6d	No. of saplings planted during the year	3000	3000	As proposed
6e	Cumulative no. of plants	13000	15200	As proposed
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs. 6,00,000 /-	Rs. 9,65,500/-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D)	NA	NA	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 backfilled area	NA	NA	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	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)	Nil	Periodic Monitoring carried out	All parameters within norms
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	PMCP Compliance and progressive closure operations were found satisfactory.

MINERAL CONSERVATION (2023-24):

S. No.	Item	Proposals	Actual Work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting proposed	No sorting carried out	Nil
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 & beneficiation issues	-	-	No issued observed with mineral conservation or beneficiation. Entire ROM generated is consumed.

ENVIRONMENT (2023-24):

S. No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Carried out	As proposed
8b	Concurrent use or storage of topsoil	Both Concurrent, Use & storage proposed	Top soil concurrent & stored as well.	Top soil used for afforestation
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate Dump for OB & TS proposed	Separate Dump for OB & TS maintained	As proposed
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	No proposal	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	13200 existing at the beginning of the year	15200 existing by the end of the year	3000 nos sapling planted during the year
8g	Survival rate	85%	90%	As proposed
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	-	-	Aesthetic beauty in and around mines area was found satisfactory

COMPLIANCE UNDER RULE-45 (2023-24):

S. No.	Item	Details given in AR	Comments of I/Officer	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	In time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Manager - Vengatasalam. R Geologist- K. Gokulnath	Given in Part I, Sl 7-9.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i) Already Exploited & Abandoned by Opencast Workings - 0 ha (ii) Covered under current Workings - 3.82 ha (iii) Reclaimed / Rehabilitated - Nil (iv) Used for Waste Disposal - 1.31 ha (v) Occupied by plant, buildings, residential, welfare buildings & Roads - 0.17 ha (vi) Other Purpose (Green belt, Road, area, Non-Mineral Bearing Land for future dumps, afforestation, Infrastructure) - 49.38 ha	Given in Part I, Sl 12.	Nil
9d	Scrutiny of Annual return on afforestation	No. of Trees planted within the Lease Area during FY 2023-24 - 3000 nos. Outside Lease Area FY 2023-24: Nil Survival Rate - 90%	Given in Part V, Sl 5	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Given in Part V, Sl 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock - Nil	Given in Part VI, Sl 2 & 3(ii).	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	EX mine price - Rs.219.79 /- Cost of production - Rs. 272.94 /-	Given in Part VI, Sl 3(ii) & Part VII.	Nil
9h	Scrutiny of Annual return on fixed assets	GFA - Rs. 2,28,72,279/-	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries	Back-Hoe - 1.2 Cu.m - 2 Nos Tipper- 9.09 CuM-19 Nos Dozer-175Hp-1 Nos Other HEMM-1.2CuM-1 Nos Water Tanker- 5000L-1 Nos	Given in Part V, Sl 6	Nil

Details of violations observed during current inspection and compliance position of violations pointed out					
Violation observed			Show cause position		
Rule No.	Issued on	Compliance on	Rule No.	Issued on	Compliance on

Date:

(Matiul Islam)
Indian Bureau of Mines