

INDIAN BUREAU OF MINES
MINERAL DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Chennai Regional Office

Mine file No. TN/ALR/LST-32.MDS		Mine Code: 38TMN38043
	Name of the inspecting officer	Shri Matiul Islam Assistant Controller of Mines
	Date of inspection	12.11.2024
	Accompanied mine official and designation	Shri. Saddique Basha—Mine Engineer & Manager Shri. G. Srithar - Geologist
	Mine file No.	279(2)2020/BNG-SZ dt 03.07.2024
PART-I: General Information		
1	Name of the Mine	Ottakovil Limestone Mine (ML - 13)
2	Total Lease Area (Ha) with breakup of non-forest and forest land	Non- Forest Patta land - 74.38 Ha Forest - NIL
3	Mine code	38TMN38043
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	Ottakovil
7	Taluka/Mandal	Ariyalur
8	District	Ariyalur
9	Pin code	621705
10	State	Tamilnadu
11	Post office	Ottakovil
12	Nearest police station	Ariyalur
13	Nearest railway station	Ottakovil
14	Date of Grant of Mining Lease	14.12.2016
15	Date of Execution	10.01.2017 & Registration on - 10.01.2017
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. Saddique Basha -- Mine Manager Aditya Gramam,

		UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin - 621704 Mob- 9660209687 Saddique.basha@adityabirla.com Date of appointment - 01.08.2023
23	Name of the Mines Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in mines	Shri. Saddique Basha -- Mine Engineer Qualification- BE Mining Total- 13 years' Experience. Aditya Gramam, UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin - 621704 Mob- 9660209687 Date of appointment - 01.08.2023
24	Whether Geologist and Mining Engineer appointed in mines satisfy the Rule 42 & carrying out their duties as per rule 43 & 44.	G. Srithar (Geologist) Date of appointment - 02.04.2019 Shri. Saddique Basha -- Mine Engineer Date of appointment - 01.08.2023
25	Date of Approval of Mining Plan/Modified Mining Plan with five - year period and specific condition in approval letter, if any.	1. TN/ALR/LST/ROMP-1633.MDS, Dated 06.01.2021 (2021-22 to 2025-26) 2. TN/ALR/LST/MMP-2093.MDS dt. 27.03.2023
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five - year period and specific condition in approval letter, if any.	-
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
31	Date of inspection	12.11.2024
32	Name of accompanying mine officials with designation	Shri. Saddique Basha—Mine Engineer/ Manager Shri. G. Srithar - Geologist

EXPLORATION

S. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	Potentially mineralized area already fully explored upto G1 level
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 31.03.2024 (111+121 Category)	3.514 million Tonne	3.533 million Tonne	Nil
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exploration of the lease were found satisfactory

DEVELOPMENT

S. No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	E 293565 to 293783 N 1239890 to 1239577	E 293565 to 293783 N 1239890 to 1239577	As proposed
2b	Separate benches in topsoil, overburden and minerals (Rule 13 of MCDR-2017)	Separate benches Topsoil -1 Ore -1	Separate benches Topsoil -1 Ore -1	As proposed
2c	Stripping ratio or ore to OB ratio	1: 0.55	1: 0.51	Within acceptable limit
2d	Quantity of topsoil generation in m3	52462.62	52329	Within limit
2e	Quantity of overburden generation in m3	43093.83	79179	Violation pointed out
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	-	-	Violation pointed out for deviation from development proposal

Exploitation

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	175155 T	156457.4 T	Violation pointed out
3c	Recovery of salable/usable mineral from ROM production	100% of ROM	100% of ROM	As proposed
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	Nil
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 with rock-breakers
3k	Provision of mining machineries in mineral benches	Rock breaker, Excavator & Tippers are used	Rock breaker, Excavator & Tippers are used	As proposed
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB- 6.0 Meter Mineral - 6.0 Meter	OB- 6.0 Meter Mineral - 6.0 Meter	Suitable for method of mining
3m	Total area covered under excavation/pits	14.19 Ha.	12.26 Ha	Within limit
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.55	1: 0.51	Within acceptable limit
3o	Total area put in use under different heads at the end of year	Current Workings- 14.19 Waste disposal- 03.66 Road & Building- 0.520 safety zone and Green Belt- 58.110	Current Workings- 12.26 Waste disposal- 03.490 Road & Building- 0.520 safety zone and Green Belt- 58.110	Within limits
3p	Production of ROM mineral during the last five-year period as applicable			Modified Review of Mining Plan was approved for the period 2022-23 to 2025-26.
3q	General remarks of inspecting officers on method of mining etc.	-	-	Violation pointed out for deviation from exploitation proposal

SOLID WASTE MANAGEMENT-DUMPING

S. No	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 36,37)	Top Soil-2 OB-1	Top Soil-2 OB-1	
4b	Location of topsoil, OB and mineral reject dumps	<u>Topsoil Dump 1</u> 11:12:44.03 N 11:12:48.66 N 79:06:19.53 E 79:06:26.07 E <u>Topsoil Dump 2</u> 11:12:38.88 N 11:12:41.25 N 79:06:14.35 E 79:06:17.41 E <u>OB Dump</u> 11:12:38.55 N 11:12:39.07 N79:06:10.22 N 79:06:12.66 E	<u>Topsoil Dump 1</u> 11:12:44.03 N 11:12:48.66 N 79:06:19.53 E 79:06:26.07 E <u>Topsoil Dump 2</u> 11:12:38.88 N 11:12:41.25 N 79:06:14.35 E 79:06:17.41 E <u>OB Dump</u> 11:12:38.55 N 11:12:39.07 N79:06:10.22 N 79:06:12.66 E	Topsoil utilized for afforestation purpose and OB utilized for making road and other allied activities
4c	Number of dumps within lease area and outside of lease area	Top Soil -2 OB-1 Within the lease area	Top Soil -2 OB-1 Within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Top Soil-1 Partially in UPL Top Soil-2 Outside UPL OB Outside UPL	Top Soil-1 Partially in UPL Top Soil-2 Outside UPL OB Outside UPL	As proposed
4e	Number of active and alive dumps.	3	3	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.	Nil	Nil	Garland Drain & Bund maintained along all dumps.
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	650m long garland drain has been constructed along all the dumps and is desilted every year
4j	Number of settling ponds	Nil	Nil	1 settling pond constructed in the northern side of the mining lease.
4k	Specific comments of inspecting officer on waste dump management	-	-	Waste dump management was found satisfactory.

SOLID WASTE MANAGEMENT-BACKFILLING

S. No.	Item	Proposals	Actual Work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling not proposed	Backfilling not carried out	Nil
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)	Topsoil storage proposed	Topsoil stored	Nil
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

S. No.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26 (2)	Nil	Submitted	Along with Annual Return
6b	Area available for rehabilitation (ha).	Nil	Nil	Nil
6c	Afforestation done (ha).	1.45	1.45	As proposed
6d	No. of saplings planted during the year	3000	3000	As proposed
6e	Cumulative no. of plants	15000	15200	As proposed
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs. 7,20,082 /-	Rs. 9,97,572/-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x 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 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)	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)	No proposal	Environment Monitoring carried out periodically	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

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 issues observed with mineral conservation. Entire ROM generated is consumed.

ENVIRONMENT

S. No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Carried out	As per the Proposal.
8b	Concurrent use or storage of topsoil	Storage proposed	Stored in the existing dump	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Within the Lease -3 (Topsoil-2 & OB-1)	Within the Lease - 3 (Topsoil-2 & OB-1)	03 no. of active dumps within the lease.

8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Nil	Nil	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)	15000 cumulative proposed afforestation	15200 cumulative actual afforestation	Nil
8g	Survival rate	90%	90%	Nil
8h	Water sprinkling on roads to control airborne dust	No proposal	Water sprinkler deployed	Nil
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

S. No.	Item	Details Given in AR	Comments of I/Officer	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	Mine Manager/ Engineer – Mr. Saddique Basha Geologist- Mr. G. Srithar	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.	Current Workings- 12.26 Waste disposal- 03.49 Road & Building- 0.520 safety zone and Green Belt- 58.110	Given in Part I, Sl 12.	Nil
9d	Scrutiny of Annual return on afforestation	No. of Trees planted within the Lease Area -3000 nos. 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	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.230.47 per tonne Cost of Production – Rs 268.94 per tonne	Given in Part VI, Sl 3(ii) & Part VII.	Nil
9h	Scrutiny of Annual return on fixed assets	GFA – Rs 3,08,54,099/-	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries	Back-Hoe -1.800 Cum- 2 Nos Dozer- 155 HP- 1 no's Tipper- 11.360 Cub- 8 Water Tanker-5000 L- 1 no's Rock Breaker-280Hp-1 no's	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
11(1)	05/12/2024				

Date:

(Matiul Islam)
Indian Bureau of Mines

