

INDIAN BUREAU OF MINES MINERAL DEVELOPMENT AND REGULATION DIVISION MCDR INSPECTION REPORT Chennai Regional Office		
Mine file No. TN/ALR/LST-3.MDS		Mine code - 38TMN38012
(i)	Name of the inspecting officer & Designation	KUMERESH A Senior Assistant Controller of Mines
(ii)	Accompanied mine official and designation	Shri. Arun Kumar. P - Mine Manager Shri. Vasanth. N – Geologist
(iii)	Date of inspection	25.09.2024
PART-I: General Information		
1.	Mine Name	Alanthuraiyarkattalai Limestone Mine – II (ML – 9)
(b)	Registration Number	IBM/441/2011
(c)	Category	A
(d)	Type of Working	Opencast
(e)	Postal Address State District Village Taluka Post Office Pin Code FAX No. E-mail Phone	M/s. UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin – 621731 Phone: 04329-249240 & 249249 Fax: 04329-249253/249363
(f)	Police Station	Ariyalur
(g)	First opening date	21.03.2011
(h)	Weekly day of rest	Scattered
2.	Address for correspondence	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
3.	Lease Number	TMN1046
	Lease Area	35.22 Ha
	Period of lease	50 years
	Date of expiry	31.03.2059

4.	Mineral worked	Limestone
5.	<p>Name and address of the Lessee:</p> <p>Owner:</p> <p>Agent:</p> <p>Manager:</p> <p>Engineer:</p> <p>Geologist:</p>	<p>M/s. UltraTech Cement Limited</p> <p>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</p> <p>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</p> <p>Shri. Arun Kumar. P -- Mine Manager UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin – 621704 Date of appointment – 01.03.2023</p> <p>Shri. Arun Kumar. P -- Mine Engineer Qualification- BE Mining Total- 15 years' Experience. Aditya Gramam No – 53 UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin – 621704 Date of appointment - 01.03.2023</p> <p>Shri. Vasanth. N UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin – 621704 Date of appointment – 16.09.2023</p>
6	Date of Approval of Mining Plan/Modified Mining Plan with five – year period and specific condition in approval letter, if any.	TN/PBR/MP/LST-1670-SZ, Dated 04.05.2007 (2009-10 to 2013-14)
	Date of Approval of Scheme of	Fresh under rule 22 MCR 1960-04.05.2007

	Mining/Modified Scheme of Mining with five – year period and specific condition in approval letter, if any.	Mining rule scheme rule 12 MCDR 1988-25.04.2014 MP review under 17(1) MCR 2016-12.11.2018
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PART-II : OBSERVATION / COMMENTS OF INSPECTING OFFICER**EXPLORATION**

S. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	G-1	G-1	Nil. Entire Lease area has been explored
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 Category)	-	8,29,314.85 T	
1f	General comments of inspecting officer on geology, exploration etc.	-	-	

DEVELOPMENT

S. No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	N 1221195 to 1221295 E 299930 – E 300000 N 1220980 to 1221145 E 300500 – E 300620 N 1221495 to 1221720 E 300695 – E 300795	N 1221195 to 1221295 E 299938 – E 299997	
2b	Separate benches in topsoil, overburden and minerals (Rule 13 of MCDR-2017)	Separate benches Ore – 3 OB – 3	Separate benches Ore – 3 OB – 3	As per the Proposal
2c	Stripping ratio or ore to OB ratio	1: 2.55 (Tonne: Tonne)	1: 2.03 (Tonne: Tonne)	--
2d	Quantity of topsoil generation in m ³	3,48,916 m ³	3,32,228 m ³	Top soil generated was spread over for plantation activity
2e	Quantity of overburden generation in m ³	43,582 m ³	43,522 m ³	Generated Overburden is Backfilled as per ROMP.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	--	--	--

EXPLOITATION

S. No.	Item	Proposals	Actual Work	Remarks
3a	Number of Pit proposed for production	1 Pit	1 Pit	--
3b	Quantity of ROM mineral production proposed	4,28,534 T	2,99,950.15 T	--

3c	Recovery of salable/usable mineral from ROM production	70 % of ROM	100 % of ROM	100% ROM Consumed
3d	Quantity of mineral reject generation	1,28,560 T	100 % of ROM	100% ROM Consumed
3e	Grade of mineral rejects generation and threshold value declared.	Below 34% of CaO	Below 34% CaO mineral reject is also consumed, with ROM recovery at 100%	No reject generated
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	--
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	NA
3j	Provision of drilling and blasting in mineral benches	Nil	Nil	Nil
3k	Provision of mining machineries in mineral benches	Rock breaker, Excavator & Tippers are used	Rock breaker, Excavator & Tippers are used	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in RoMP	6 Meter	6 Meter	Suitable for method of mining
3m	Total area covered under excavation/pits	8.53 Ha.	6.48 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1: 2.55 (Tonne: Tonne)	1: 2.03 (Tonne: Tonne)	
3o	Total area put in use under different heads at the end of year	Excavation-6.48 Dump – 2.80 Green belt & Safety – 19.99 Infrastructure-0.20 Reclaimed – 5.75	Excavation-6.48 Dump – 2.80 Green belt & Safety – 19.99 Infrastructure-0.20 Reclaimed – 5.75	
3p	Production of ROM mineral during the last five-year period as applicable	2019-20-2,99,812 2020-21-2,99,912 2021-22-2,99,984 2022-23-2,99,579 2023-24-2,99,974	2019-20-239645.46 2020-21-94345.57 2021-22-248859.87 2022-23-2,77,011.81 2023-24-2,99,950.15	Review of Mining Plan was approved for the period 2019-20 to 2023-24.
3q	General remarks of inspecting officers on method of mining etc.	-	-	

SOLID WASTE MANAGEMENT-DUMPING

S. No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 36,37)	Dumping separately	Dumped separately	Nil
4b	Location of topsoil, OB and mineral reject dumps	South and western side of the lease area	South and western side of the lease area	Nil
4c	Number of dumps within lease area and outside of lease area	Within the Lease -4	Within the Lease – 4	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South and western side of the lease area	South and western side of the lease area	As per plan
4e	Number of active and alive dumps.	Nil	Nil	--
4f	Number of dead dumps.	4	4	--
4g	Number of dumps established.	Nil	Nil	--
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	About 685 meters of retaining wall has been constructed all along the OB dump.
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	--
4j	Number of settling ponds	Nil	Nil	--
4k	Specific comments of inspecting officer on waste dump management	--	--	

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 proposed	Backfilling done	--
5b	Area under backfilling of mined out area	1.96 Ha	1.94 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Yes	Yes	--
5d	Total area fully reclaimed and rehabilitated	8.67 Ha	5.75 Ha	--
5e	General remarks of inspecting officers on backfilling and reclamation etc	--	--	

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)	As per the Rule 26 (2)	Annual report on PMCP submitted under Rule 26 (2) for the year 2023-24.	Nil
6b	Area available for rehabilitation (ha).	1.96 Ha	1.94 Ha	The lateral area was covered as per the proposal, with back filling.
6c	Afforestation done (ha).	1.36	1.36	Afforestation is being carried out.
6d	No. of saplings planted during the year	3404	3410	
6e	Cumulative no. of plants	16904	17048	---
6f	Any other method of rehabilitation	Nil	Nil	--
6g	Cost incurred on watch and care during the year	Rs 2,55,288	Rs. 6,82,000	--
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D)	1.96 Ha	0.02 Ha	--
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.96 Ha	1.94 Ha	--
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation backfilled area	3404	3410	--
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	--
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	--
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	--	--	--
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	--	--	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	As per proposal	Complied as per proposal	

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	--	--
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MINERAL CONSERVATION

S. No.	Item	Proposals	Actual Work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade-wise sorting proposed	No grade-wise sorting done	--
7b	Method of grade wise mineral sorting i.e. manual or mechanical.	--	--	--
7c	Different grade of mineral sorted out at mines.	--	--	--
7d	Any beneficiation process at mines	Nil	Nil	--
7e	General remarks of inspecting officer on Mineral Conservation & beneficiation issues	-	-	-

ENVIRONMENT

S. No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Top soil being spread over the back filled area for plantation purpose.	--
8b	Concurrent use or storage of topsoil	Concurrent use	Concurrently Top soil being spread over the back filled area for plantation purpose.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Within the Lease -4 (OB-1 & TopSoil-3)	Within the Lease – 4 (OB-1 & Topsoil -3)	04 no. of dumps within the lease.
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Proposed	Overburden used for backfilling	--
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Overburden used for backfilling	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	16904	17048	
8g	Survival rate	85 %	85%	--
8h	Water sprinkling on roads to control airborne dust	Proposed	Continuous water sprinkling tanker is being done on roads	--

			to control airborne dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	--	

COMPLIANCE UNDER RULE-45

S. No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Monthly returns are being submitted before due time	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine Manager – Shri. Arun Kumar. P Geologist- Shri. Vasanth. N	Mine Manager – Shri. Arun Kumar. P Geologist- Shri. Vasanth. N	--
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 – 8.53 Ha (iii) Reclaimed / Rehabilitated – 8.67 Ha (iv) Used for Waste Disposal – 2.80 Ha (v) Occupied by plant, buildings, residential, welfare buildings & Roads - 0.2 ha (vi) Other Purpose (Green belt, Road, area, Non-Mineral Bearing Land for future dumps, afforestation, Infrastructure) – 15.02 ha	i) Already Exploited & Abandoned by Opencast Workings - 0 ha (ii) Covered under current Workings – 6.48 ha (iii) Reclaimed / Rehabilitated – 5.75 (iv) Used for Waste Disposal – 2.80 ha (v) Occupied by plant, buildings, residential, welfare buildings & Roads - 0.2 ha (vi) Other Purpose (Green belt, Road, area, Non-Mineral Bearing Land for future dumps, afforestation, Infrastructure) – 19.99 ha	

9d	Scrutiny of Annual return on afforestation	No. of saplings proposed for FY 2023-24 :3404 nos. Outside Lease Area FY 2022-23: Nil Survival Rate - 85%	No. of Trees planted within the Lease Area during FY 2023-24 – 3410 nos. Outside Lease Area FY 2022-23: Nil Survival Rate - 85%	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	1,28,560 T	100 % of ROM	100% ROM Consumed & there was no mineral reject
9f	Scrutiny of Annual return on ROM stock and/or graded ore	(a) Opencast Working – Production - 2,99,974 MT (b) Underground Working - Production - Nil (c) Dump Workings - Production - Nil	(a) Opencast Working – Production - 2,99,950.15 MT (b) Underground Working - Production - Nil (c) Dump Workings - Production - Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine Price=Rs. 213.88 Production cost=Rs= 227.32	Furnished in part VI, Sl No 2	
9h	Scrutiny of Annual return on fixed assets	61,803,071	Rs. 15,057,357 /-	
9i	Scrutiny of Annual return on mining machineries	Rock Breaker – 2.1 Cu M- 2 Nos Back-Hoe/Bull Clam (Capacity in HP) Diesel -20 HP – 1 Haulers / Dumpers- 7.27 Cu M- 25 Water Tanker 5KL-1Nos	Rock Breaker – 2.1 Cu M- 2 Nos Back-Hoe/Bull Clam (Capacity in HP) Diesel -20 HP – 1 Haulers / Dumpers- 7.27 Cu M- 25 Water Tanker 5KL-1Nos	

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)	28.10.2024	26.11.2024			

Date:

KUMERESH A
SrAsst Controller of Mines
 Indian Bureau of Mines

