

INDIAN BUREAU OF MINES MINERAL DEVELOPMENT 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 officer & Designation	Matiul Islam Assistant Controller of Mines
(ii)	Accompanied mine official and designation	Shri. Arun Kumar. P - Mine Manager Shri. Vinithkannan R- Geologist
(iii)	Date of inspection	18/07/2024
PART-I: General Information		
1. (a)	Mine Name	Alanthuraiyarkattalai Limestone Mine - I (ML - 7)
(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	Tamil Nadu Ariyalur Alanthuraiyarkattalai Ariyalur Ariyalur 621704 04329-249253/249363 04329-249240 &249249
(f)	Police Station	Ariylur
(g)	First opening date	01/12/2014
(h)	Weekly day of rest	SUN
2.	Address for correspondence	M/s. UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin - 621731 Phone: 04329-249240 &249249 Fax: 04329-249253/249363
3. (a)	Lease Number	Not Available
(b)	Lease Area	8.14 Ha
(c)	Period of lease	30 years
(d)	Date of expiry	12/12/2042
4.	Mineral worked	Limestone
5.	Name and address of the Lessee:	M/s. UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin - 621731 Phone: 04329-249240 &249249 Fax: 04329-249253/249363

	<p>Owner:</p> <p>Agent:</p> <p>Manager:</p> <p>Engineer:</p> <p>Geologist:</p>	<p>Shri. K.C. Jhanwar Nominated Owner, UltraTech Cement Limited, Aditya Birla Centre, S.K.Ahira 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. Shri. Arun Kumar. P -- Mine Manager Qualification- BE Mining Total- 14 years' Experience. M/s UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin – 621704 Date of appointment - 01.03.2023</p> <p>Shri. Anand Priyan -- Mine Engineer Qualification- BE Mining Total- 7 years' Experience. M/s UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin – 621704 Date of appointment – 15.06.2023</p> <p>Shri. Vinithkannan Qualification- M.Sc. Geology Total - 6 years' Experience. M/s UltraTech Cement Limited, Reddipalayam Post, Ariyalur District, TN, Pin – 621704 Date of appointment - 02.01.2024</p>
6	<p>Date of Approval of Mining Plan/Modified Mining Plan with five – year period and specific condition in approval letter, if any.</p> <p>Date of Approval of Scheme of Mining/Modified Scheme of Mining with five – year period and specific condition in approval letter, if any.</p>	<p>1. TN/PBR/MP/LST/1625/SZ Dated 03.01.2006 (2012-13 to 2016-17)</p> <p>1.TN/ALR/LST/ROMP-1390.MDS, Dated 24.01.2017 (2017-18 to 2021-22) 2. TN/ALR/LST/ROMP-1681.MDS, Dated 03.12.2021 (2022-23 to 2026-27)</p>

PART-II : OBSERVATION / COMMENTS OF INSPECTING OFFICERS**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	Entire potentially mineralized area already fully explored with 16 nos. of core drilling for a total meterage of 565.45 m.
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)	7,76,246 Tonnes	7,98,860 Tonnes	More reserves balance than proposed due to less depletion than proposed in past.
1f	General comments of inspecting officer on geology, exploration etc.	-	-	Geology & Exploration of the mine were found satisfactory.

DEVELOPMENT

S. No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	1220771 N-1219993 N TO 299920 E -300055 E & 1219813 N-1219877 N TO 299873 E -300046 E	1220771-1219993 TO 299920-300055 & 1219813-1219877 TO 299873-300046	Within proposed limits
2b	Separate benches in topsoil, overburden and minerals (Rule 13 of MCDR-2017)	Separate benches Topsoil - 1 OB - 1 Ore - 2	Separate benches Topsoil - 1 OB - 1 Ore - 2	Within proposed limits
2c	Stripping ratio or ore to OB ratio	1: 0.46 (Tonne: Tonne)	1: 0.26 (Tonne: Tonne)	Within proposed limits
2d	Quantity of topsoil generation in m ³	2978 m ³	373 m ³	Within proposed limits
2e	Quantity of overburden generation in m ³	11782 m ³	10215 m ³	Within proposed limits
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.	--	--	The development of the pit was found satisfactory.

EXPLOITATION

S. No.	Item	Proposals	Actual Work	Remarks
3a	Number of Pit proposed for production	1	1	As per proposal
3b	Quantity of ROM mineral production proposed	78,283 T	71,150.87 T	Within proposed limits
3c	Recovery of salable/usable mineral from ROM production	90 % of ROM	100 % of ROM	100% ROM Consumed by blending
3d	Quantity of mineral reject generation	7117 T	0 T	100% ROM Consumed by blending

3e	Grade of mineral rejects generation and threshold value declared.	Below 34% of CaO	Below 34% 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.	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	5.06 Ha (by the end of Plan Period)	3.43 Ha	Within proposed limits
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.46 (Tonne: Tonne)	1: 0.26 (Tonne: Tonne)	Within proposed limits
3o	Total area put in use under different heads at the end of year	8.14 Ha	8.14 Ha	Within proposed limits
3p	Production of ROM mineral during the last five-year period as applicable	2019-20 : 71184	2019-20 : 70996.54	Within proposed limits.
		2020-21 : 71188	2020-21 ; 55904.88	
		2021-22 : 71186	2021-22 : 71082.13	
		2022-23 : 71140	2022-23 : 71108.69	
		2023-24 : 71166	2023-24 : 71150.87	
3q	General remarks of inspecting officers on method of mining etc.	-	-	The method of mining was found satisfactory.

SOLID WASTE MANAGEMENT-DUMPING

S. No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 36,37)	1 Topsoil 1 OB	1 Topsoil 1 OB	Within proposed limits
4b	Location of topsoil, OB and mineral reject dumps	1221502.17 N To 1221543.58 N & 299987.38 E to 300024.77 E	1221502.17 N To 1221543.58 N & 299987.38 E to 300024.77 E	Within proposed limits
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)	Within UPL	Within UPL	Temporary dump within the UPL is proposed to be re-handled in future.
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.	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	--	--	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.	No proposal	Nil	Nil
5b	Area under backfilling of mined out area	Nil	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Yes	Yes	Utilized for plantation work
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	Annual report on PMCP submitted along with Annual Return	Submitted in time
6b	Area available for rehabilitation (ha).	Nil	Nil	Nil
6c	Afforestation done (ha).	0.59	0.59	As proposed
6d	No. of saplings planted during the year	1120	1150	As proposed
6e	Cumulative no. of plants	4000	4390	As proposed
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs. 2,00,000	Rs. 2,50,000	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	NA	NA	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)	Periodic monitoring proposed	Periodic monitoring carried out	As proposed
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	--	--	PMCP Compliance & 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	No beneficiation or sorting proposed or carried out.

ENVIRONMENT

S. No.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Topsoil utilized for plantation work.	As proposed
8b	Concurrent use or storage of topsoil	Both use and storage proposed	Topsoil partly utilized in afforestation & partly stored for future use.	As proposed
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)	02 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	Backfilling not proposed in the current plan period	Backfilling not carried out	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)	4000	4390	As proposed
8g	Survival rate	85 %	85%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried out	Water Sprinklers deployed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	--	--	The aesthetic beauty in and around mines area was found satisfactory.

COMPLIANCE UNDER RULE-45

S. No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Nil	Returns submitted timely	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Ananda Priyan Mine Manager - Arun Kumar. P Geologist- Vinithkannan R	Given in Part I, Sl No 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 - 3.43 ha (iii) Reclaimed / Rehabilitated - 0.59 (iv) Used for Waste Disposal - 0.97 ha (v) Occupied by plant, buildings, residential, welfare buildings & Roads - 0.02 ha (vi) Other Purpose (Green belt, Road, area, Non-Mineral Bearing Land for future dumps, afforestation, Infrastructure) - 3.13 ha	Given in Part-I, Sl No 12.	Nil
9d	Scrutiny of Annual return on afforestation	No. of Trees planted within the Lease Area during - 1150 nos. Outside Lease Area: Nil Survival Rate - 85%	Given in Part V, Sl No 5.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Given in Part V, Sl No 3	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	(a)Opencast Working - Production - 71150.87 T	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.216.45 Cost of production - Rs. 249.55	Given in Part VI, Sl 3(ii) & Part VII	Nil
9h	Scrutiny of Annual return on fixed assets	GFA-Rs.32,98,073/-	Given in Part II A	Nil
9i	Scrutiny of Annual return on mining machineries	TIPPER - 6.36, 9 Nos BACK HOE - 2.100, 2 Nos OTHER HEM MACHINERY - 10, 1 Nos WATER TANKER - 10000 Liter, 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