

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/CHT/LST-8

Mine code : 38RAJ09006

- (i) Name of the Inspecting : **G021**) **DATA RAM GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Yatendra Sharma, Mine Manager & Sh. Bhupendra Gan
Official with
Designation
- (iv) Date of Inspection : 22-OCT-23
- (v) Prev.inspection date : 18-AUG-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ADITYA**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : CHITTORGARH
- Village : NEAR MEDIKA AMARANA
- Taluka : CHITTORGARH
- Post office : ADITYAPURAM SHAMBHUPURA
- Pin Code : 312612
- FAX No. : 01477-220289
- E-mail : adityacement@adityabirla.co
- Phone : 01472-220192-97
- (f) Police Station : Shambhupura
- (g) First opening date : 24-AUG-95
- (h) Weekly day of rest : SUN
2. Address for : Ultratech Cement Limited,
correspondance Post - Adityapuram, Sawa, Amarpura, Sindaudi
Distt - Chittorgarh (Raj.)
3. (a) Lease Number : RAJ0394
- (b) Lease area : 760.69
- (c) Period of lease : 50
- (d) Date of Expiry : 28-APR-44
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : ULTRA TECH CEMENT LTD.
 AHURA CENTRE, B-WING II
 FLOOR MAHAKALI CAVES RD.
 ANDHERI (E) MUMBAI-400093
 AMRELI GUJARAT
 Phone:022-56917800
 FAX :022-56917900

Owner : Kailash Chandra Jhanwar
 UltraTech Cement Limited
 Ahura Centre, A-WING 1st
 Floor Mahakali Caves Road
 Andheri Mumbai MUMBAI
 (SUBURBAN) MAHARASHTRA
 Phone:
 FAX :

Agent : Vijay Kumar D. Mali
 UltraTech Cement Limited
 (Unit: Aditya Cement Works)
 Adityapuram, Distt-
 Chittorgarh CHITTORGARH
 RAJASTHAN
 Phone: 9826909505
 FAX : 9826909505

Mining Engineer
 Name : Devendra Singh Rajpurohit, Full Time
 Qualification : BE Mining
 Appointment/ : 01-JUN-23
 Termination date

Mining Engineer
 Name : Devendra Kumar Deshmukh, Full Time
 Qualification : BE(Mining)
 Appointment/ : 14-DEC-21 01-JUN-23
 Termination date

Mining Engineer
 Name : Shri Kamal Paliwal, Full Time
 Qualification : B E Mining FCC
 Appointment/ : 29-JUN-10 14-DEC-21
 Termination date

Geologist
 Name : P.S.MISHRA, Full Time
 Qualification : M.SC. M. TECH.
 Appointment/ : 21-JUN-96 30-SEP-17
 Termination date

Geologist
 Name : B.K.GANGAWAT, Full Time
 Qualification : M.SC.(GEOLOGY)
 Appointment/ : 30-SEP-17
 Termination date

Manager

Name : Naval Kishore Sharma
 Qualification : B. E. Mining, FCC (R)
 Appointment/ : 15-DEC-11 13-DEC-20
 Termination date

Manager

Name : Yatendra Sharma
 Qualification : BE(Mining)
 Appointment/ : 14-MAY-21
 Termination date

Manager

Name : M.Senthilkumar
 Qualification : B Tech Mining
 Appointment/ : 14-DEC-20 14-MAY-21
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	25-MAY-00
		Modif.approved Mining Scheme	23-SEP-04
		Mining Scheme rule 12 MCDR1988	03-MAR-05
		Modif.approved Mining Scheme	28-NOV-05
		Renewal under rule 24 MCR1960	20-NOV-13
		Renewal under rule 24 MCR1960	20-NOV-13
		MP modif under 17(3) MCR 2016	25-FEB-19
		MP modif under 17(3) MCR 2016	10-JUL-20
		MP review under 17(1) MCR 2016	12-APR-22

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during the year 2021-22	None	Nil
1b	Exploration over lease area for geological axis 1 or 2	During the year 2022-23 total 20 nos. of bore holes having 1600m was proposed.	During the year 2022-23 total 51 bore holes having 4685m exploratory drilling has been carried out.	Entire lease area 760.692 hect. has been explored under G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified in proposal	Exploration Agency: Southwest Pinncale Exploration Pvt. Ltd, Ajmer(Rajasthan) Expenditure: Rs.137,82,800	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	During the year 2022-23, it was proposed to convert G2 level(22.95 hect.) & G4 level(50.65 hect.) into G1 level by way of 20 nos. of core bore hole drilling.	During the year Entire G2 & G4 area has been explored up to G1 level.	At the end of year 2022-23, entire lease area 760.692 hect. has been explored up to G1 level.
1e	Balance reserve as on 01/04/20	No specific proposal given in this regard.	Balance reserves as on 01.04.2023: 244.26 million tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed related to Geology & Exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Pit 1: E459579 to E460012 & N2736910 to N2736820 Pit 2W: E459819 to E460584 & N2735660 to N2736070 Pit 3: E460602 to E460270 & N2733720 to N2733260	Mine Development has been carried out within proposed limit except some deviation observed in Pit 2W.	During the year 2022-23 in Pit No. 2(West), mine development between grid 2736130N to 2736265N & 459450E to 459725E has been carried out which was not proposed in the year 2022-23, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 14.12.2023.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposal for eparate benches of Top soil, OB and Mineral has been given.	As per proposal	Nil
2c	Stripping ratio or ore to OB ratio	2022-23: 1:0.31	2022-23: 1:0.28	Tonne:Tonne
2d	Quantity of topsoil generation in m3	2022-23: 15625 cum	2022-23: 9750 cum	Nil
2e	Quantity of overburden generation in m3	2022-23: 16330546cum	2022-23: 1272275cum	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			During the year 2022-23 in Pit No. 2(West), mine development between grid 2736130N to 2736265N & 459450E to 459725E has been carried out which was not proposed in the year 2022-23, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 14.12.2023.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	03	03	Nil
3b	Quantity of ROM mineral production proposed	2022-23: 12500000T	2022-23: 10384917T	Nil
3c	Recovery of sailable/usable mineral from ROM production	2022-23: 12000000T	2022-23: 9974922T	Nil
3d	Quantity of mineral reject generation	2022-23: 500000T	2022-23: 409995T	Screen Reject
3e	Grade of mineral rejects generation and threshold value declared.	less than 34% CaO content with high silica.	Screen reject is having 25.20 to 33.10% of CaO	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Not generated	Nil
3g	Grade of sub grade mineral generation	No proposal	Not generated	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.	No proposal	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes, Drill size 115mm with Burden & spacing of 4-5m & 6-7m respectively for blasting.	As per proposal	Nil
3k	Provision of mining machineries in mineral benches	Mining proposed by fully mechanized method by using HEMM i.e. Shovel ,dumper dozer etc.	Fully mechanized method of Mining observed using HEMM i.e. Shovel,dumper,dozer etc.	Nil

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Height is 9.0m to 11m in mineral and overburden benches.	Yes. actual height of benches is 9.0 to 11.0 m in mineral and overburden benches.	Nil
3m	Total area covered under excavation/pits	The area under excavation at the end of plan period (up to 2023-24) is 274.627 Ha.	The area under pits is 245.855Ha.	Up to year 2022-23.
3n	Ore to OB ratio for the pit/mine during the year.	2022-23: 1:0.31	2022-23: 1:0.28	Tonne:Tonne
3o	Total area put in use under different heads at the end of year	Total area put to use at the end of plan period is 364.05 excluding plantation area.	Total area put to use 333.045Ha. area at the end of year 2022-23 (Excluding plantation area)	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19:10869565T, 2019-20:12425560T, 2020-21:10600000T, 2021-22:10600000T, 2022-23:12500000T, 2023-24:12500000T	2018-19:8897941T, 2019-20:7330044T, 2020-21:8274385T, 2021-22:10243406T, 2022-23:10384917T, 2023-24:4683968T(Up to Sept23)	Nil
3q	General remarks of inspecting officers on method of mining etc.			Open cast fully mechanised mining method adopted as per proposal which is suited to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, top soil use concurrently and OB/waste and Mineral reject(screen reject) dumping proposal has been given.	Yes as per proposal	Nil
4b	Location of topsoil, OB and mineral reject dumps	OB Dump: 460741 E to 460954 E & 2735660 N to 2736130 N, 460704 E to 461165 E & 2734600 N to 2735160 N Screen Reject: 460720 E to 460890 E & 2736850 N to 2737020 N, 460757 E to 461009 E & 2735460 N to 2735640 N, 460748 E to 460979 E & 2735130 N to 2735420 N	Dumping has been carried out within proposed limit.	Nil
4c	Number of dumps within lease area and outside of lease area	Total seven dumps inside the lease area	Total seven dumps inside the lease area	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All outside of ultimate pit limit.	All outside of ultimate pit limit.	Nil
4e	Number of active and alive dumps.	Five dumps are active	Five dumps are active	Nil
4f	Number of dead dumps.	02	02	Nil
4g	Number of dumps established.	02	02	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	However, Retaining wall during the year 2022-23 has not been made on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 14.12.2023.

4i	Length of Retaining wall or garland drain all along dumps	2022-23: 100Mtr. retaining wall and 100Mtr. Garland drain proposed	As per proposal	However, Retaining wall during the year 2022-23 has not been made on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 14.12.2023.
4j	Number of settling ponds	No proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			Retaining wall during the year 2022-23 has not been made on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 14.12.2023.

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.	None of the pit is matured and planned for backfilling. No proposal except dumping of waste.	Nil	Nil
5b	Area under backfilling of mined out area	No proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes, soil is planned to use for plantation concurrently.	As per proposal	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area matured for backfilling & reclamation.

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).	Holder of mining lease has to submit PMCP report before 1st day of July every year under rule 26 of MCDR, 2017.	PMCP report for the year 2022-23 has been submitted on time.	Nil
6b	Area available for rehabilitation (ha) .	2022-23: 1.0 hect	2022-23: 1.0 hect	Nil
6c	afforestation done (ha).	2022-23: 1.0 hect	2022-23: 1.0 hect	Nil
6d	No. of saplings planted during the year	2022-23: 2000 nos.	2022-23: 2000 nos.	Nil
6e	Cumulative no .of plants	No proposal given in this regard.	Total sapling planted- 262594 nos. up to year 2022-23.	Nil
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	No specific proposal given in this reagrd	2022-23: Rs. 6 lakhs	As reported during the inspection.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	However rain water accumulated at Pit Bottom.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Plantation proposed over as area 1.0 hect.	Plantation has been carried out over an area 1.0 hect. area	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1 hect.	1 hect.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring in core zone and buffer zone was proposed.	Regular monitoring in core zone and buffer zone is carried out on quarterly basis.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliances is satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	During the year 2022-23, total 12000000T usable limestone will be feed to captive cement plant.	During the year 2022-23, total 9974922T usable limestone was feed to captive cement plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Nil
7c	Different grade of mineral sorted out at mines.	Cement grade & screen reject	Cement grade & screen reject	Nil
7d	Any beneficiation process at mines .	Mechanical screening process during Limestone crushing	Mechanical screening process during Limestone crushing	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	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)	Yes proposal given	As per proposal	Nil

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	None during the reporting year 2022-23.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal in RY 2022-23	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2022-23 total 2000 nos. sapling proposed.	During the year 2022-23 total 2000 nos. sapling planted.	Nil
8g	Survival rate	Not specified	80.70%	As per AR 2022-23.
8h	Water sprinkling on roads to control airborne dust	Proposal given	Water sprinkling on roads was observed to control airborne dust.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty in and around mines area is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, monthly and annual returns to be submitted.	Monthly returns upto Dec, 2023 and Annual returns for the year 2022-23 have been submitted timely.	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager Mr. Yatendra Sharma Mining Engineer Devendra Singh Rajpurohit Geologist Bhupendra Kumar Gangawat	Correct details filled.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current Working 245.855 Ha Used for Waste Disposal (Dumps) 45.310 Ha. Occupied by plant, building residential, welfare building and road 37.970 Ha. Topsoil 3.910 Ha.	Details seems corrected	Nil
9d	Scrutiny of Annual return on afforestation	Nos. of Sapling within lease area- 2000 nos., Survival Rate- 80.7%	Seems corrected	However under item 5 of part-V, the total no. of trees at the end of year is not reported correctly, hence S/C notice issued vide letter dated 14.12.2023.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No details of screen reject reported in AR 2022-23.	During the inspection it was observed that in your mine crusher/ screen reject generated which was not reported in the annual return 2022-23, hence S/C notice issued vide letter dated 14.12.2023.	Apart from above mentioned discrepancies, some other discrepancies was also observed which were covered in show cause notice for Rule 45(7) of MCDR 2017 (dated 14.12.2023) issued to the lesee.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM & Graded Stock reported-Zero	Seems corrected	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production/ Ex mine Price reported Rs. 204.94 per ton	Seems corrected	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.1,37,61,36, 652	Seems corrected	Nil
9k	Scrutiny of Annual return on mining machineries	Details given in AR 2022-23	Seems corrected	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 11(1)	14-DEC-23	24-JAN-24	MCDR17	Rule 45(7)	14-DEC-23 24-JAN-24
MCDR17	Rule 45(7)(a)	14-DEC-23	24-JAN-24			

Date :

(DATA RAM GURJAR)

Indian Bureau of Mines