

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/NGR-12/LST-4

**Mine code :** 38RAJ20004

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Gopi Chand Dhayal, AVP (Mines) and Sri Vivek Bha  
Official with  
Designation
- (iv) Date of Inspection : 22-DEC-23
- (v) Prev.inspection date : 24-MAR-23

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAJASHREE-II(58/84,ML3/95**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : NAGAUUR
- Village : BASNI
- Taluka : MERTA
- Post office : GOTAN
- Pin Code : 342605
- FAX No. : 02920264040
- E-mail : gopi.dhayal@adityabirla.com
- Phone : 9887480263
- (f) Police Station : Gotan
- (g) First opening date : 28-NOV-97
- (h) Weekly day of rest : SUN
2. Address for : Ultra tech Cement Ltd., Unit Birla White,  
correspondance Village & PO- Basani, Police Station- Gotan,  
Tehsil- Merta, District- Nagaur
3. (a) Lease Number : RAJ1490
- (b) Lease area : 400.7
- (c) Period of lease : 50
- (d) Date of Expiry : 28-OCT-36
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : ULTRA TECH CEMENT LTD.  
 B WING, AHURA CENTRE, 2nd  
 FLOOR, MAHAKALI CAVES ROAD,  
 ANDHERI EAST, MUMBAI MUMBAI  
 (SUBURBAN) MAHARASHTRA  
 Phone:+911412378980/81  
 FAX :+911412378980

Owner : K C Jhanwar  
 A' Wing, 2nd Floor, Ahura  
 Centre, Mahakali Caves  
 Road, Andheri (E), Mumbai-  
 400093. PALI RAJASTHAN  
 Phone: 022-66917800  
 FAX :

Agent : Alok Nigam  
 Ultratech cement Ltd.,Unit-  
 Birla White,PO-Kharia  
 Khangar, District-Jodhpur  
 JODHPUR RAJASTHAN  
 Phone: 7722031570  
 FAX : 7722031570

Mining Engineer  
 Name : Narendra Singh,Full Time  
 Qualification : BE Mining  
 Appointment/ : 12-DEC-22  
 Termination date

Mining Engineer  
 Name : Sh. K. P.Singh,Full Time  
 Qualification : BE Mining  
 Appointment/ : 29-DEC-99 05-JUL-22  
 Termination date

Mining Engineer  
 Name : Prem Swami,Full Time  
 Qualification : BE Mining  
 Appointment/ : 05-JUL-22 01-OCT-22  
 Termination date

Mining Engineer  
 Name : Bhawani Singh,Full Time  
 Qualification : BE Mining  
 Appointment/ : 01-OCT-22 12-DEC-22  
 Termination date

Geologist  
 Name : Vivek R Bhardwaj,Full Time  
 Qualification : M Sc (Geology)  
 Appointment/ : 17-JUN-21  
 Termination date

Manager  
 Name : Bhawani Singh

Qualification : BE Mining  
 Appointment/ : 01-OCT-22                      12-DEC-22  
 Termination date

Manager

Name : Narendra Singh  
 Qualification : BE Mining  
 Appointment/ : 12-DEC-22  
 Termination date

Manager

Name : K P Singh  
 Qualification : B E (Mining Engg)  
 Appointment/ : 01-JAN-00                      05-JUL-22  
 Termination date

Manager

Name : Prem Swami  
 Qualification : BE(Mining)  
 Appointment/ : 05-JUL-22                      01-OCT-22  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under MCR 1960                      08-JUN-16  
 MP modif under 17(3) MCR 2016                      31-JAN-19  
 MP review under 17(1) MCR 2016                      25-JAN-21  
 MP modif under 17(3) MCR 2016                      20-JUN-23

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	A total of 21 Bhs with 920 mts of drilling was proposed during the previous year 2021-22.	Total of 21 boreholes with 704 meters of drilling was carried out during previous year 2021-22.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during the reporting year (RY) 2022-23.	Not applicable as no proposal of exploration.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration.	Not applicable as no exploration during RY.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Not applicable.	As per approved RMP dated 25/01/2021, entire lease area explored under G1 level of exploration.
1e	Balance reserve as on 01/04/20	The position of reserve and resource as on 01/12/2020 was 28.308 and 7.472 million tons respectively.	The position of reserve and resource as on 01.04.2023 was 32.14 and 5.71 million tons respectively.	The position of R&R as on 01/04/2023 based on approved MRMP dated 15/06/2023.
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration during the reporting year 2022-23.	Not applicable as no proposal of exploration.	The entire lease area is represented by the limestone and dolomite belonging to Bilara Group of Marwar Super Group overlain by alluvium.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	The development has been proposed in extension of existing pits.	Development observed over the non-approved area at place.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in development area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of topsoil generation. Separate removal of waste and mineral.	No top soil generation during RY. Separate removal of waste and mineral.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.28 CuM/T	1:0.27 CuM/T	Nil
2d	Quantity of topsoil generation in m3	No proposal of topsoil generation.	No top soil generation during RY.	Nil
2e	Quantity of overburden generation in m3	171358 CuM	119700 CuM	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method of mining.	Development is being carried out as per proposal.	No issue related to development.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	11 Nos.	11 Nos.	Nil
3b	Quantity of ROM mineral production proposed	600003.00 tons	444000.00 tons	Less production as approved quantity of the CTO is 450000.00 tons.
3c	Recovery of sailable/usable mineral from ROM production	510003.00 tons	444000.00 tons	Less production as approved quantity of the CTO is 450000.00 tons.
3d	Quantity of mineral reject generation	90000.00 tons	No mineral reject generation during the RY.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not specified.	Not applicable.	Nil

3f	Quantity of sub grade mineral generation.	No proposal of Sub-grade generation.	No Sub-grade generation.	Nil
3g	Grade of sub grade mineral generation	Not applicable as no proposal.	Not applicable.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Sizing and screening by mechanized method.	As per proposal.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Not applicable.	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling by hydraulic drill machine and Jack hammer. Drill hole dia of 34 mm with 1.5 m burden and 1.3 m spacing in limestone & 4.3 m burden and 5.3 m spacing for waste benches.	Drilling and blasting was carried as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination.	Shovel and dumper combination.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 6 mts was proposed.	Bench height maintained as per proposal.	Nil
3m	Total area covered under excavation/pits	An area of 91.69 hectare at the end of the year 2025-26.	An area of 105.91 hectare area at the end of the year 2022-23. MRMP has been approved on 15/06/2023 for over degrade land.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.28 CuM/T	1:0.27 CuM/T	Nil

3o	Total area put in use under different heads at the end of year	Total area put in use is 130.00 Hectare.	Total area put in use is 147.62 Hectare. MRMP has been approved on 15/06/2023 for over degrade land.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 750649 2019-20: 951534 2020-21: 1004131 2021-22: 550014 2022-23: 600003	2018-19: 439000 2019-20: 438000 2020-21: 363000 2021-22: 438000 2022-23: 444000	Nil
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining was proposed.	Opencast method of mining is being practiced.	The method of mining proposed is best suitable to the type of deposit.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of top soil and MR generation. Separate dumping of the waste.	No top soil and MR generation. Waste dumping observed beyond the approved limit at places.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in waste dumping.
4b	Location of topsoil, OB and mineral reject dumps	Dumping over existing dumps WD-4, WD-7 and WD-8.	Waste dumping observed beyond the approved limit at places.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in waste dumping.
4c	Number of dumps within lease area and outside of lease area	09 dumps	09 dump (08 waste dumps and 01 screen reject dump). Besides, few small waste dumps have also observed in the lease area.	The details of all waste dumps have been shown in the approved MRMP dated 15/06/2023.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste dumps WD-7 and WD-4 outside UPL.	Waste dumps WD-7 and WD-4 outside UPL.	Nil
4e	Number of active and alive dumps.	09 dumps.	09 dumps.	Nil
4f	Number of dead dumps.	04 dumps.	04 dumps.	Nil
4g	Number of dumps established.	No proposal.	Not applicable.	Nil

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain around dumps.	Retaining wall and garland drain observed at necessary places around the dumps.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: 47 mts and Garland drain: 99 mts.	Retaining wall: 47 mts and Garland drain: 100 mts.	Nil
4j	Number of settling ponds	No proposal.	Not applicable.	Nil
4k	Specific comments of inspecting officer on waste dump management	Dumping over existing dumps WD-4, WD-7 and WD-8.	Waste dumping observed beyond the approved limit at places.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in waste dumping. Few small waste dumps have also observed in the lease area which has been shown in the approved MRMP dated 15/06/2023.

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	An area of 0.348 hectare was proposed to backfill.	As per PMCP report an area of 8.379 hectare was backfilled during the RY.	Violation of rule 11(1) of MCDR, 2017 issued.
5b	Area under backfilling of mined out area	0.348 hectare during RY.	8.379 hectare during the RY	Violation of rule 11(1) of MCDR, 2017 issued.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation.	No top soil generation during RY.	Nil
5d	Total area fully reclaimed and rehabilitated	No specific proposal.	A total of 8.46 hectare area is backfilled.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	An area of 0.348 hectare was proposed to backfill.	As per PMCP report an area of 8.379 hectare was backfilled during the RY.	Violation of rule 11(1) of MCDR, 2017 issued.

## 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).	As per rule 26(2) of MCDR, 2017, PMCP report to be submitted for previous year by 1st July.	Annual PMCP report for the year 2022-23 has been submitted with annual return 2022-23.	Nil
6b	Area available for rehabilitation (ha) .	An area of 0.348 hectare was proposed to backfill.	As per PMCP report an area of 8.379 hectare was backfilled during the RY.	Violation of rule 11(1) of MCDR, 2017 issued.
6c	afforestation done (ha).	4.70 hectare.	5.00 hectare.	Nil
6d	No. of saplings planted during the year	2350 number of saplings.	4000 number of saplings.	Nil
6e	Cumulative no .of plants	No specific proposal.	45650 as per PMCP report.	Nil
6f	Any other method of rehabilitation	No proposal.	Not applicable.	Nil
6g	Cost incurred on watch and care during the year	No proposal.	31.0 lacs.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	An area of 0.348 hectare was proposed to backfill.	As per PMCP report an area of 8.379 hectare was backfilled during the RY.	Violation of rule 11(1) of MCDR, 2017 issued.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal.	Not applicable.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Not applicable.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Not applicable.	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2350 number of saplings.	4000 number of saplings.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	4.70 hectare.	5.00 hectare.	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)	Monitoring of AAQ, Noise and water quality monitoring.	Environment parameters are being monitored as per proposal.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 4.70 hectare with 2350 number of sapling was proposed to plant.	An area of 5.0 hectare with 4000 number of sapling was planted during the RY.	The PMCP compliance during the RY was satisfactory in respect of the plantation.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sizing and screening through mechanical means.	Sizing and screening through mechanical means.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Sizing and screening through mechanical means.	Sizing and screening through mechanical means.	Nil
7c	Different grade of mineral sorted out at mines.	No proposal.	Not applicable.	Nil
7d	Any beneficiation process at mines	No proposal of any beneficiation.	Not applicable.	Nil

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No specific proposal.	Not applicable.	No issue related to mineral conservation.
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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation.	No top soil generation during RY.	Nil
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste.	Waste was dumped separately.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	An area of 0.348 hectare was proposed to backfill.	As per PMCP report an area of 8.379 hectare was backfilled during the RY.	Violation of rule 11(1) of MCDR, 2017 issued.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Pit area of 0.348 hectare was proposed to backfill.	As per PMCP report an area of 8.379 hectare was backfilled during the RY.	Violation of rule 11(1) of MCDR, 2017 issued.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	An area of 4.70 hectare with 2350 number of sapling was proposed to plant.	An area of 5.0 hectare with 4000 number of sapling was planted during the RY.	Nil
8g	Survival rate	No specific proposal.	85% as per AR 2022-23.	Nil

8h	Water sprinkling on roads to control airborne dust	Water Sprinkling in haul roads.	Water sprinkling observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	An area of 4.70 hectare with 2350 number of sapling was proposed to plant.	An area of 5.0 hectare with 4000 number of sapling was planted during the RY.	The aesthetic beauty of mine needs to improve due to number of dumps and pits.

#### 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, 2017 monthly and annual returns to be submitted.	Annual and Monthly returns for RY have been submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of mining engineer and geologist was furnished.	Mining engineer and geologist appointed.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits: 94.75 ha Reclaimed: 8.73 ha Waste disposal: 29.60 ha Infrastructure : 9.86 ha	Area under pits is not furnished correctly.	Violation of rule 45(7) of MCDR, 2017 issued.
9d	Scrutiny of Annual return on afforestation	Within lease 4000 nos and outside lease 200 nos.	The figures of the plantation furnished are in order.	The figure of total number of trees at the end of the year is incorrectly. Hence violation of rule 45(7) of MCDR, 2017 issued.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generation: Nil	No mineral reject generation during the RY.	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: Nil Graded ore stock: 17808.42 tons	Found in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production and Ex-mine price: 484.00 per tons.	Appears in order.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset Rs. 89537487.00	Appears in order.	Nil
9k	Scrutiny of Annual return on mining machineries	Back hoe, dumper and air compressor etc.	Back hoe, dumper and air compressor etc.	Nil

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**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)	01-FEB-24			
MCDR17	Rule 45(7)(a)	01-FEB-24			

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines