

**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 K.P.Singh, Sr. GM(Mines), Sri Vivek Bhardwaj, Ge  
Official with  
Designation
- (iv) Date of Inspection : 28-APR-22
- (v) Prev.inspection date : 11-DEC-20

**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 : krishan.singh@adityabirla.  
Phone : 9829733368
- (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 : Sh. K. P.Singh,Full Time  
 Qualification : BE Mining  
 Appointment/ : 29-DEC-99  
 Termination date

## Geologist

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

## Manager

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

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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	09 Exploratory BHs in previous year from 2019-20 to 2020-21.	No exploratory drilling during previous year 2020-21.	Backlog of 09 exploratory BHs.
1b	Exploration over lease area for geological axis 1 or 2	Total of 21 Boreholes with 920 mts of drilling was proposed including backlog of previous year.	Total of 21 Boreholes with 704 mts of drilling was drilled including backlog of previous year.	Violation of rule 11(1) of MCDR issued for shortfall in drilling meterage.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal on Exploration Agency & Expenditure.	SYNERGY GEOTECH PVT.LTD. NAGPUR. Expenditure: Around Rs 24.54 Lakh	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved document dated 25/01/2021 entire mineralised area of 269.70 hectare explored under G1 level.	Entire mineralized area covered under G1.	NIL.
1e	Balance reserve as on 01/04/20	Reserve: 28.308 Resource: 7.472 (as on 01/12/2020)	Reserve: 27.72 Resource: 7.472 (as on 01/04/2022)	All figures in million tons. Depletion of 0.58 from Dec-21 to Mar-22)
1f	General remarks of inspecting officers on geology, exploration etc	Total of 21 Boreholes with 920 mts of drilling was proposed including backlog of previous year.	Total of 21 Boreholes with 704 mts of drilling was drilled including backlog of previous year.	The limestone deposit of the area occurs with dolomite/ dolomitic limestone bands.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development has been proposed in the pits namely NW-2 I, NW -2 II, NW-2III, NW-3, SE-7, SE-5, SE-6, SE-2, SE-2 II, SE-3 and SE-4.	Development has been carried out in proposed pits. Besides above, development has also observed on non-approved area.	Violation of rule 11(1) of MCDR, 2017 issued.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil generation. Separate benches in OB and Mineral.	No top soil generation. Separate benches in OB and Mineral.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.19 CuM/CuM	1:0.57 CuM/CuM	Violation of rule 11(1) of MCDR, 2017 issued for variation in stripping ratio.
2d	Quantity of topsoil generation in m3	No proposal.	Not applicable.	NIL.
2e	Quantity of overburden generation in m3	107568 CuM	100400 CuM	NIL.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Opencast method of development has been proposed.	Development carried out as per proposed method.	Due to local issues number of pits has been developed for mineral production.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	11 Nos pits namely NW-2 I, NW -2 II, NW-2III, NW-3, SE-7, SE-5, SE-6, SE-2, SE-2 II, SE-3 and SE-4.	11 Nos pits namely NW-2 I, NW -2 II, NW-2III, NW-3, SE-7, SE-5, SE-6, SE-2, SE-2 II, SE-3 and SE-4.	Non approved area has also been developed. Violation of rule 11(1) od MCDR, issued.
3b	Quantity of ROM mineral production proposed	550013 Ton or 220005 CuM	438000 ton or 175200.00 CuM	Less production in account of Covid - 19 pandemic.

3c	Recovery of sailable/usable mineral from ROM production	467512 tons	438000.00 t	Less production in account of Covid - 19 pandemic.
3d	Quantity of mineral reject generation	5% of ROM.	No MR Generation during RY.	As reported during mine inspection.
3e	Grade of mineral rejects generation and threshold value declared.	Between CaO<48% and CaO>34%	Not applicable as no MR generation during the year.	NIL.
3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Sizing and screening by mechanized method.	Sizing and screening by mechanized method.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of analysis or beneficiation study for sub-grade mineral.	Not applicable as no proposal.	NIL.
3j	Provision of drilling and blasting in mineral benches	Yes, Jack Hammer drilling and blasting.	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	Height of the benches have been proposed to 6 mts.	Height of the benches has been observed as per proposal.	NIL.
3m	Total area covered under excavation/pits	91.69 hectare at the end of 2025-26.	77.11 Hectare as on 01.04.2022.	Actual figures as informed during mine inspection.
3n	Ore to OB ratio for the pit/mine during the year.	77.11 Hectare as on 01.04.2022.	1:0.57 CuM/CuM	Violation of rule 11(1) of MCDR, 2017 issued for variation in stripping ratio.

3o	Total area put in use under different heads at the end of year	130 ha. At the end of 2025-26	113.51 as on 01.04.2022	Actual figures as informed during mine inspection.
3p	Production of ROM mineral during the last five year period as applicable	2017-18:700220 2018-19:750649 2019- 20:1119452 2020- 21:1181330 2021-22:467512	2017-18: 440000 2018-19: 439000 2019-20: 380000 2020-21: 363000 2021-22: 438000	All figures in metric tons.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining has been proposed.	Opencast method of mining is being practiced.	Opencast mechanized mining method has been adopted, which is best suited method for the type of the 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 generation. Separate dumping of waste and MR.	No top soil generation. Dumping of waste as per proposal.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	Proposal of waste dumping has been given on existing dump namely WD-4, WD-7, WD-8.	Dumping of waste as per proposal.	A total of 09 waste dumps exist in lease area.
4c	Number of dumps within lease area and outside of lease area	09	09	Within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All dumps are within UPL except WD-4, Wd-07 and partially WD-3.	11 dumps are within UPL except WD-4, Wd-07 and partially WD-3.	NIL.
4e	Number of active and alive dumps.	03 (WD-4, WD-7, WD-8)	03 (WD-4, WD-7, WD-8)	NIL.
4f	Number of dead dumps.	04 (WD-2, WD-5, WD-6, WD-9).	04 (WD-2, WD-5, WD-6, WD-9).	NIL.

4g	Number of dumps established.	02 (WD-1 & WD-3)	02 (WD-1 & WD-3)	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain proposal given.	Observed at necessary places.	NIL.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: 55 mtr and Garland Drain: 49mtr along waste dump WD-7	Retaining wall and garland drain has been constructed.	NIL.
4j	Number of settling ponds	No proposal.	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Dumping of the waste has been proposed over three existing waste dumps.	Dumping of waste has been carried out as per proposal.	No issue observed related to waste dumping.

#### 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.	Backfilling after full extraction of mineral.	Backfilling carried out after full extraction.	NIL.
5b	Area under backfilling of mined out area	A total of 0.351 hectare area of pits namely NW-2, SE-7, SE-5, SE-3 and SE-2 has been proposed.	A total of 0.35 hectare area has been backfilled.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Not applicable.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation	Not applicable.	NIL.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling after full extraction of mineral.	Backfilling carried out after full extraction.	Backfilling after full extraction of mineral.
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#### 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 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2021-22 is not yet due for submission.	NIL.
6b	Area available for rehabilitation (ha) .	0.35 hectare area proposed for backfilling out of available 3.189 hectare.	A total of 0.35 hectare area backfilled.	NIL.
6c	afforestation done (ha).	4.20 hectare area.	5.0 hectare area.	As reported during mine inspection.
6d	No. of saplings planted during the year	2100 saplings.	4000 saplings.	As reported during mine inspection.
6e	Cumulative no .of plants	No specific proposal on cumulative number of plantation.	Cumulatively 48561 numbers of plants within and outside lease area.	NIL.
6f	Any other method of rehabilitation	Other than plantation, no proposal of any other method of rehabilitation .	Plantation has been carried out as per proposal.	NIL.
6g	Cost incurred on watch and care during the year	Not specified.	Not applicable.	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.351 hectare.	0.35 hectare.	NIL.

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	No proposal of afforestation on backfilled area.	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 any other specific proposal.	Not applicable.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2100 saplings.	4000 saplings.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	4.20 hectare area.	5.0 hectare area.	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)	Provision for monitoring of environment parameter has been given.	Environment monitoring is being carried out in core and buffer zone.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 4.20 hectare has been proposed for plantation with 2100 numbers of saplings.	An area of 5.0 hectare has been planted with 4000 number of saplings.	PMCP compliances are satisfactory.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Mineral dispatch after crushing and screening.	As per proposal.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting. Only crushing and screening.	As per proposal.	NIL.
7c	Different grade of mineral sorted out at mines.	Waste: CaO<34% and screen reject: Between CaO<48% and CaO>34%	As per proposal.	NIL.
7d	Any beneficiation process at mines	No proposal.	No beneficiation process. Only crushing and screening	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Crushing and screening has been proposed.	Crushing and screening is being carried out.	No issues related to mineral conservation.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation during RY.	Top soil has not been generated during RY.	NIL.
8b	Concurrent use or storage of topsoil	No proposal of top soil generation during RY.	Not applicable as no top soil has been generated during RY.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping for OB/waste and MR.	OB/waste has been dumped separately. No MR generation.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste/OB has been proposed to backfill in mine out area of 0.35 hectare.	Backfilling has been carried out over 0.35 hectare area during RY.	NIL.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling of mine out pit area.	Backfilling has been carried out.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2100 saplings.	4000 saplings.	NIL.
8g	Survival rate	No proposal.	80 %	As reported during mine inspection.
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling proposed.	Water Sprinkling observed.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	A total of 2100 numbers of saplings proposed to plant.	A total of 4000 numbers of saplings have been planted.	The lease area is surrounded with other mining lease area. The aesthetic beauty of mine lease area is being improved with plantation.

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#### Compliance of Rule 45:

Sl.No.	Item	Proposals	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 for RY have been submitted. Annual return is not yet due for submission.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual return for the year 2021-22 is not yet due for submission.	Mining Engineer and Geologist has been appointed.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual return for the year 2021-22 is not yet due for submission.	Not applicable as annual return has not yet been submitted.	NIL.

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9d	Scrutiny of Annual return on afforestation	Annual return for the year 2021-22 is not yet due for submission.	Not applicable as annual return has not yet been submitted.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual return for the year 2021-22 is not yet due for submission.	Not applicable as annual return has not yet been submitted.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual return for the year 2021-22 is not yet due for submission.	Not applicable as annual return has not yet been submitted.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual return for the year 2021-22 is not yet due for submission.	Not applicable as annual return has not yet been submitted.	NIL.
9h	Scrutiny of Annual return on fixed assets	Annual return for the year 2021-22 is not yet due for submission.	Not applicable as annual return has not yet been submitted.	NIL.
9k	Scrutiny of Annual return on mining machineries	Annual return for the year 2021-22 is not yet due for submission.	Not applicable as annual return has not yet been submitted.	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-JUN-22	02-AUG-22			

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines