

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/NGR-25/LST-6

**Mine code :** 38RAJ20005

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sh. K.P. Singh Mine Mangar, Sh. Daleep Soda, Mining e  
Official with  
Designation
- (iv) Date of Inspection : 04-MAR-20
- (v) Prev.inspection date : 12-SEP-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAJASHREE-1( ML1/91)**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : NAGAUUR  
Village : DHANAPPA/BASNI  
Taluka : MERTA  
Post office : GOTAN  
Pin Code : 342605  
FAX No. : 0291-2431844  
E-mail : krishan.singh@adityabirla.  
Phone : 0291-2431715
- (f) Police Station : GOTAN
- (g) First opening date : 08-JUL-87
- (h) Weekly day of rest : SUN
2. Address for : ULTRA TECH CEMENT LTD. Birla White, Village & PO  
correspondance : Dhanappa, Tehsil- Merta, Police Station- Gotan,  
District- Nagaur
3. (a) Lease Number : RAJ1490
- (b) Lease area : 400.74
- (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 : Shri Rajesh kumar Kedia  
 Ultratech cement Ltd.  
 (Unit: Birla white) D-7,  
 Shastri Nagar, Jodhpur  
 JODHPUR RAJASTHAN  
 Phone:  
 FAX :

## Mining Engineer

Name : Daleep Sodha, Full Time  
 Qualification : B E (Mining Engg)  
 Appointment/ : 01-JAN-96  
 Termination date

## Geologist

Name : Vivek R Bhardwaj, Full Time  
 Qualification : M Sc (Geology)  
 Appointment/ : 01-JAN-11  
 Termination date

## Manager

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

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	03-AUG-93
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	29-JUL-94
		Mining Scheme rule 12 MCDR1988	18-AUG-99
		Mining Scheme rule 12 MCDR1988	18-FEB-00
		Existing rule 11 MCDR1988	16-MAR-01
		Mining Scheme rule 12 MCDR1988	08-NOV-04
		Mining Scheme rule 12 MCDR1988	26-AUG-10
		Renewal under rule 24 MCR1960	31-JAN-12
		MP review under 17(1) MCR 2016	13-APR-17

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal of exploration during previous year 2017-18.	Not applicable as no proposal.	As per approved document dated 13/04 2017.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year 2018-19.	Not applicable as no proposal.	As per approved document dated 13/04 2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration.	Not applicable.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Not applicable.	NIL.
1e	Balance reserve as on 01/04/20	As per approved document dated 13/04/2017, the position of reserve was 9.898 million tonnes as on 30.11.2016.	The position of reserve and resource as on 01/04/2019 was 9.751Million tonnes as on 01/04/2019.	NIL.
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration.	Not applicable.	No geological complexity in the deposit.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

2a	Location of development w.r.t.lease area	Pit-1: 225S-290S and 460W-590W, Pit-3: 15W-50N and 785W-880W, Pit4: 135S-40N and 160W-250W, Pit-5: 2025W-2120W 995S-2025S.	Development has been carried within approved limit during reporting year.	NIL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed.	A separate bench has been observed.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.89 ton/ton	1: 0.83 ton/ton	Waste including top soil.
2d	Quantity of topsoil generation in m3	15637 ton	2250 ton	NIL.
2e	Quantity of overburden generation in m3	104417 ton	53100 ton	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.	Develop has been carried out as per proposal.	Open cast method of development is suitable as the mineral occurs near surface.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 (Pit-1,3,4,5)	As per approved aproposal.	NIL.
3b	Quantity of ROM mineral production proposed	149850	66500	Low production is due to low market demand.
3c	Recovery of sailable/usable mineral from ROM production	90%	100%	No reject generation as anticipated.
3d	Quantity of mineral reject generation	14985 ton	NIL.	No reject generation as anticipated.

3e	Grade of mineral rejects generation and threshold value declared.	Not specified.	Not applicable as no reject generation.	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	Mechanical by installing 200 TPH crusher and screening facility.	Manual as proposed crusher and screen unit not installed.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of beneficiation study.	Not applicable as no proposal.	NIL.
3j	Provision of drilling and blasting in mineral benches	Drilling by Jackhammer and Wagon drills with ANFO as a main charg.	As per proposal.	NIL.
3k	Provision of mining machineries in mineral benches	Jack Hammer, Wagon drilling, Shovel, Dumpers, Mobile compressor etc.	Jack Hammer, Wagon drilling, Shovel, Dumpers, Mobile compressor etc.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Soil benches: 1M, OB Bench: 2-7M and Mineral bench: 4M	Benches have been observed as per proposal.	NIL.
3m	Total area covered under excavation/pits	15.41 ha (up to end of 2021-22)	13.90 ha (as on 01/04/2019.)	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.89 ton/ton	1: 0.83 ton/ton	Waste including top soil.
3o	Total area put in use under different heads at the end of year	24.79 ha. (up to end of 2021-22)	22.80 ha (as on 01/04/2019.)	NIL.

3p	Production of ROM mineral during the last five year period as applicable	2014-15: Nil 2015-16: 49070 2016-17: 49000 2017-18: 149275 2018-19: 149850	2014-15: Nil 2015-16: 56800 2016-17: 49000 2017-18: 66050 2018-19: 66500	All figures in tonnes.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining has been proposed.	Opencast method of mining has been practiced.	Due to near surface deposition of mineral opencast method is suitable.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate disposal of top soil, OB and Reject has been envisaged.	Top soil spreads over backfilled area. No mineral reject generation. OB disposed as per proposal.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	Top soil: Spreading over backfilled area, Waste generated from pit 1 and 4 proposed to backfilled in mine our area of pit 1. Waste generated from pit 5 has been proposed to dump at 1260S-1460S -1940W-2050W	Top soil generated has been spread over backfilled area and disposal of OB has been observed as per proposal.	NIL.
4c	Number of dumps within lease area and outside of lease area	04 (within lease area)	04 (within lease area).	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	Outside of UPL	NIL.
4e	Number of active and alive dumps.	1	1	NIL.
4f	Number of dead dumps.	No proposal	03.	NIL.
4g	Number of dumps established.	No proposal	Not applicable.	NIL.

4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not applicable.	NIL.
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable.	NIL.
4j	Number of settling ponds	No proposal	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Generated waste has been proposed to dispose through dumping and backfilling. .	Generated waste has been disposed through dumping and backfilling.	No issues 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.	Mine out part of the pit 1.	Backfilling has been carried out after full extraction.	NIL.
5b	Area under backfilling of mined out area	0.35Ha	0.35Ha	Area covered, however, height is yet to achieved.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Spreading over backfilled area for plantation	Top soil spreads over backfilled area for plantation purpose.	NIL.
5d	Total area fully reclaimed and rehabilitated	During the year 0.35Ha has been proposed to reclaim.	An area of 0.35 Ha has been reclaimed. An area of 2.0 ha. of waste dump has been rehabilitated by plantation.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling after full extraction has been proposed.	Backfilling has been carried out in the pit 1.	No issues observed related to backfilling.

#### 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 of the year 2018-19 has been submitted.	NIL.
6b	Area available for rehabilitation (ha) .	0.35 Ha area for reclamation for the RY.	0.35 Ha area reclaimed during the RY.	NIL.
6c	afforestation done (ha).	0.50 ha	1.30 ha (as reported during mine inspection).	Including the area of gap filling plantation.
6d	No. of saplings planted during the year	Total 600 Nos.	600 Nos (within lease area).	NIL.
6e	Cumulative no .of plants	3000 Nos	3000Nos	NIL.
6f	Any other method of rehabilitation	Other than plantation, no any other method of rehabilitation	Not applicable as no proposal.	NIL.
6g	Cost incurred on watch and care during the year	Rs.15000/-	Rs.50000/- (as reported during inspection)	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.35Ha	0.35 Ha	Area covered, however, height is yet to achieved.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.35Ha	0.35 Ha	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Total 200 Plants on old backfilled area.	200 Planted	NIL.



6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making reservoir.	Not applicable as no proposal of making reservoir.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	0.35 Ha	0.35 Ha	NIL.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	600 plants	200 plants on backfilling and 400 Nos plants other location	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Not applicable.	NIL.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Not applicable.	NIL.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly	Quarterly monitoring of air, water and noise are being done.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	A total of 600 numbers of saplings has been proposed to plant.	A total of 600 no. of saplings has been planted.	The lessee's conduct towards the implementation of PMCP is satisfactory.

---

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not specified for grade wise sorting.	Not applicable as no proposal.	NIL.

---

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical by installing 200 TPH crusher and screening facility.	Manual as proposed crusher and screen unit not installed.	NIL.
7c	Different grade of mineral sorted out at mines.	No proposal.	Not applicable as no proposal.	NIL.
7d	Any beneficiation process at mines .	No beneficiation process at the mine.	Not applicable as no beneficiation process at the mine.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal of any beneficiation.	Not applicable as no proposal.	No issued related to Mineral conservation.

---

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal of top soil.	Top soil removed separately.	NIL.
8b	Concurrent use or storage of topsoil	Concurrent use, storage Nil	Concurrent use, storage Nil	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps only for overburden.	As per proposal.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling in pit 1.	Backfilling in pit 1 carried out.	NIL.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.35 Ha. (mine out area of pit 1).	0.35 Ha. (mine out area of pit 1).	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	600 saplings has been proposed to plant.	600 plants with in lease area and 200 plants outside lease.	NIL.
8g	Survival rate	No proposal.	75%	NIL.
8h	Water sprinkling on roads to control airborne dust	Sprinkling on roads.	Water sprinkling observed haul road.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation.	Plantation carried out.	The general aesthetic beauty in and around mine was 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 and annual returns have been submitted for reporting year.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information has been furnished about Mining Engineer and Geologist.	Mining engineer was present at the time of the inspection.	Scrutiny of AR 2018-19.

---

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings: 13.90 Ha., Reclaimed/Rehabilitated: 6.50 Ha., Used for waste disposal: 7.1 Ha., Infrastructure : 1.50 Ha., Other purpose: 5.0 Ha.	Information furnished on land use pattern appears to correct.	NIL.
9d	Scrutiny of Annual return on afforestation	600 in lease 200 outside lease	Found to correct.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL.	No mineral reject generation.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock: NIL, Graded Ore Stock: 1717.80 tonnes.	Information found to correct.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price and cost of production: Rs.375 per ton	Appears in order.	NIL.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 32249078.00	The information furnished found to correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	Back Hoe, Dumper and Air Compressor.	Found in order.	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

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines