

**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 : **S012** ) **Sharma H.C.**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri K.P.Singh,GM Mines.  
Official with  
Designation
- (iv) Date of Inspection : 13-SEP-19
- (v) Prev.inspection date : 12-JUL-18

**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 : **NAGAUR**
- Village : **BASNI**
- Taluka : **MERTA**
- Post office : **GOTAN**
- Pin Code : **342605**
- FAX No. : **02920264040**
- E-mail : **krishan.singh@adityabirla.c**
- Phone : **9829733368**
- (f) **Police Station** : **Gotan**
- (g) **First opening date** : **28-NOV-97**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **Ultra tech Cement Ltd., Unit Birla White,  
Village & PO- Basani, Police Station- Gotan,  
Tehsil- Merta, 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 : Rajesh kumar Kedia  
 Ultratech cement Ltd.  
 (Unit: Birla white) D-7,  
 Shastri Nagar, Jodhpur  
 JODHPUR RAJASTHAN  
 Phone: 02920264040  
 FAX :

## Mining Engineer

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

## Geologist

Name : Amar Singh, Full Time  
 Qualification : M Sc (Geology)  
 Appointment/ : 01-JAN-96  
 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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1- 3961.65m Drilling by 214 Bore holes drilling.	G1- 3961.65m Drilling by 214 Bore holes drilling.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None during the year 2018-19.	None during the year	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	None	
1e	Balance reserve as on 01/04/20	28.89 million MT in 111 category.	28.89 million MT in 111 category.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The entire potential area had been explored in G1 category.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit SE-1, Pit- SE 6A, Pit OP, Pit SE-7 & Pit NW-2	Pit SE-1, Pit- SE 6A, Pit OP, Pit SE-7 & Pit NW-2	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1 : 1.14	1 : 0.57	The Proportional development of Pit in O/B & in Mineral was not proper as less O/B removed.
2d	Quantity of topsoil generation in m3	3700 Cu M	2200 Cu M	

2e	Quantity of overburden generation in m3	306382 Cu M	117316 Cu M
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The Proportional development of Pit in O/B & in Mineral was not proper as less O/B removed.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	5 nos (Pit SE-1,5,6A, OP-15, SE-7, NW-2)	5 nos (Pit SE-1,5,6A, OP-15, SE-7, NW-2)	
3b	Quantity of ROM mineral production proposed	750649 T	439000 T	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Not applicable	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable	

3j	Provision of drilling and blasting in mineral benches	Jack hammer drilling & blasting	Jack hammer drilling & blasting
3k	Provision of mining machineries in mineral benches	JCB used for O/B removal	JCB used for O/B removal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	66.16 ha	66.16 ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 1.14	1 : 0.57
3o	Total area put in use under different heads at the end of year	66.16 hects	66.16 hects
3p	Production of ROM mineral during the last five year period as applicable	2014-15=428355 T, 2015-16=449700 T, 2016-17=651381 T, 2017-18=700220T, 2018-19=750649T.	2014-15=385745 T, 2015-16=437000 T, 2016-17=440000 T, 2017-18=440000T, 2018-19=439000T.
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The opencast semi mechanized method had been adopted for carrying out mining operations in the lease area.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Backfilling of Pit No SE-1 & NW-2 proposed.	Dump-4 & 6 used for backfilling.	

4c	Number of dumps within lease area and outside of lease area	06	06
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side & inside UPL	Out Side & inside UPL
4e	Number of active and alive dumps.	02	02
4f	Number of dead dumps.	04	04
4g	Number of dumps established.	02	02
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable
4j	Number of settling ponds	No proposal	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	There is no issue regarding waste dump management.

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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.	Full extraction of Mineral.	Full extraction of Mineral	
5b	Area under backfilling of mined out area	No proposal during the year 2018-19	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal during 2018-19	Not applicable	

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5d	Total area fully reclaimed and rehabilitated	No specified proposal	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	There is no matured area for reclamation & rehabilitation.

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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).	Yes as per rule	Yes Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	
6c	afforestation done (ha).	1500 plants	1500 plants inside ML & 200 Out Side ML	
6d	No. of saplings planted during the year	1500 plants	1500 plants inside ML & 200 Out Side ML	
6e	Cumulative no .of plants	Not specified	25500 Nos cummulative no of plants.	
6f	Any other method of rehabilitation	No proposal	Not applicable	
6g	Cost incurred on watch and care during the year	Not specified	Man Power Rs. 2.5 Lac/ annum, Water Rs6.0 Lacs, Fencing Rs 5.0 Lacs, Total 13.5 Lacs.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring as per SPCB conditions.	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The implementation of PMCP proposals was satisfactory in the mine.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No despatch Targets	177135 T
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	White Cement Grade	White Cement Grade
7d	Any beneficiation process at mines	No proposal	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No issue regarding mineral conservation in the mine.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	3700 Cu M	2200 Cu M	
8b	Concurrent use or storage of topsoil	Use for Plantation	Used for Plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps for O/B waste only	Seperate dumps for O/B waste only	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3000 nos of plants	1500 nos within ML & 200 Outside ML
8g	Survival rate	80%	About 70%
8h	Water sprinkling on roads to control airborne dust	Yes	Yes
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic beauty in & around the Mine was satisfactory.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	M.R. Submitted up to September 2019. A. R. Submitted for the year 2018-19.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Mine Manager- Sh. K. P. Singh, Geologist- Sh. A S Raliya	Mining Engineer & Mine Manager- Sh. K. P. Singh, Geologist- Sh. A S Raliya	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under Pits- 66.16 ha, Reclaimed area- Nil, Dump Area- 24.37ha, Occupied by Plant, Building- 2.8 ha, Plantation- 24 ha	Under Pits- 66.16 ha, Reclaimed area- Nil, Dump Area- 24.37ha, Occupied by Plant, Building- 2.8 ha, Plantation- 24 ha	

9d	Scrutiny of Annual return on afforestation	1500 nos planted inside lease area & 200 nos planted outside leae area.	1500 nos planted inside lease area & 200 nos planted outside leae area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject Generation- Nil	Reject Generation- Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock- Nil, Production- 439000 T of Limestone & Closing Stock- Nil	Opening Stock- Nil, Production- 439000 T of Limestone & Closing Stock- Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production Stated as Rs. 476.00 per tonne.	A total of Rs. 106242408/- had been stated as expensed during 2018-19 to raise a total production of 439000.00 T of mineral thereby the cost of production comes out to be Rs. 242.01 per Tonne, which had been stated as Rs. 476.00 per tonne.
9h	Scrutiny of Annual return on fixed assets	The Value of Fixed assets stated as Rs. 84014753.00 and depreciation during the year 2018-19 stated as Nil.	The depreciation during the year 2018-19 can not be NIL.
9k	Scrutiny of Annual return on mining machineries	The list of Machinery deployed has been given.	Found in order.

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :****(Sharma H.C.)**

Indian Bureau of Mines