

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

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 : **NAGAUR**
- 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 correspondance** : **ULTRA TECH CEMENT LTD. Birla White, Village & PO
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 24-MAR-19
 Termination date

Manager

Name : Daleep Sodha
 Qualification : BE Mining
 Appointment/ : 25-MAR-19
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Existing rule 11 MCDR1988 03-AUG-93
 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	Nil	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	G1- 1790.3 m drilling Carried Out by 118 nos of boreholes. Maximum Depth 30m & Minimum-15m.	G1- 1790.3 m drilling Carried Out by 118 nos of boreholes. Maximum Depth 30m & Minimum-15m.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None during 2018-19	None during 2018-19	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	9.7512 Million M T	9.7512 Million M T	
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	Workings proposed in Pit -1, Pit- 3, Pit -4 & Pit- 5.	Workings proposed in Pit -1, Pit- 3, Pit -4 & Pit- 5.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Being done	
2c	Stripping ratio or ore to OB ratio	1 : 0.98	1 : 0.80	The prortional development in O/B waste & Ore was not maintained.
2d	Quantity of topsoil generation in m3	6950 Cu M	1000 Cu M	

2e	Quantity of overburden generation in m3	46407 T	23600 T
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The generation of O/B waste was less compared to the production & the prortional development in O/B waste & Ore was not maintained.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 nos (Pit- 1,3,4 & 5)	4 nos (Pit- 1,3,4 & 5)	
3b	Quantity of ROM mineral production proposed	134865 T	66500 T	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	Nil	Not applicable	
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	L & T Poclain With 10 T tippers.	Being done
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	One in Soil 1m bench, one O/B bench 7m & one limestone bench 4m.	As per proposal
3m	Total area covered under excavation/pits	13.90 ha	13.90 ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.98	1 : 0.80 ha
3o	Total area put in use under different heads at the end of year	22.80 ha	22.80 ha
3p	Production of ROM mineral during the last five year period as applicable	2014-15-- 47070 T, 2015-16= 49070 T, 2016-17= 49000 T, 2017-18=134347 T, 2018-19= 134865 T	2014-15=Nil, 2015-16= 57003 T, 2016-17= 48697 T, 2017-18=47100 T, 2018-19= 66500 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The open cast semi mechanized method has been adopted to work the deposit which is best suited to it.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	As per approved proposals.	

4b	Location of topsoil, OB and mineral reject dumps	Top Soil proposed to be used for plantation. Waste proposed to be dumped in waste dump no 1 & dump no 5. O/B generated from Pit 1 & Pit 5 proposed to be backfilled.	Being done
4c	Number of dumps within lease area and outside of lease area	04 nos	04 nos
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	Out side UPL.
4e	Number of active and alive dumps.	1 no	1 no
4f	Number of dead dumps.	03 nos	03 nos
4g	Number of dumps established.	1 no	1 no
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 dumping.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	0.36 ha during 2018-19	035 ha
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed to be used for plntation.	Being done
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	The status of backfilling was as per approved proposals

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).	No proposal	Not applicable	
6d	No. of saplings planted during the year	600 nos during 2018-19	600 nos	
6e	Cumulative no .of plants	No proposal	Not applicable	
6f	Any other method of rehabilitation	No proposals	Not applicable	
6g	Cost incurred on watch and care during the year	No proposal	Not applicable	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	12.0 ha	As per proposals
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.36 ha	0.35 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	600 plants during 2018-19	600 plants
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 CPCB & SPCB Conditions.	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The lessee's conduct towards implementation of PMCP was satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	134865 T	66500 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	There is no issue regarding mineral conservation.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Used for plantation.	

8b	Concurrent use or storage of topsoil	Storage- Nil, Concurrently used for plantation.	Being done
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps for O/B Waste only	Being done
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	For Backfilling in Pit no 1	Backfilling in Pit no 1 carried out.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Back filling in Pit no 1.	Being done
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No specified proposals	Not applicable
8g	Survival rate	Not specified	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.

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 Aug 2019. A. R. Submitted for 2018-19.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Sh. Daleep Sodha, Manager- Sh. K. P. Singh & Geologist- Dr Vivek R Bhardwaj.	Mining Engineer- Sh. Daleep Sodha, Manager- Sh. K. P. Singh & Geologist- Dr Vivek R Bhardwaj.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under Pits- 13.90 ha, Reclaimed area- 6.50 ha, Dump Area- 7.10 ha, Plantation 5.0 ha	Under Pits- 13.90 ha, Reclaimed area- 6.50 ha, Dump Area- 7.10 ha, Plantation 5.0 ha
9d	Scrutiny of Annual return on afforestation	600 nos in lease area & 200 outside lease area	600 nos in lease area & 200 outside lease 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- 66500 T & Closing Stock _ Nil.	Opening Stock- Nil, Production- 66500 T & Closing Stock _ Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production Stated as Rs. 375.00 per tonnes.	A total of Rs. 19473679/- have been expensed to raise a production of 66500.00 T of Limestone, there by the cost of production comes about Rs. 292.83 per tonne which has been stated as Rs. 375.00 per tonnes.
9h	Scrutiny of Annual return on fixed assets	The Value of Fixed assets stated as Rs. 32960321.00 and the depreciation during the year stated as Nil.	The depreciation can not be Nil.
9k	Scrutiny of Annual return on mining machineries	The detailed list of mining M/C deployed had been given.	Found in order.

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