

**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 : **K010**) **Kotriwal B.L.**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : SHRI K P SINGH, AGENT
Official with
Designation
- (iv) Date of Inspection : 20-DEC-19
- (v) Prev.inspection date : 13-SEP-19

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.**
- 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	Nil	nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20		28.89 MT (111) 7.472 MT (221)	
1f	General remarks of inspecting officers on geology, exploration etc			Entire mineralized area has been fully explored.

Development :

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

2a	Location of development w.r.t.lease area	NW-1 379665 E To 380013 E 2942943N To 2943153 N NW -2 380224 E TO 380232 E 2942596 N To 2942814N NW-2II 379681E TO 379893E 2942305N TO 2942534N NW-2III 379975E TO 380176E 2942258N TO 2942503N NW-3 380395E TO 380510E 2941798N TO 2942118N SE-1 381462E TO 381570E 2942605N TO 2942756N SE-2 381749 E TO 381909E 2942414N TO 2942683N SE-2II 381719E TO 381875E 2942183N TO 2942369N SE-2III 381535E TO 381790E 2942853N TO 2943101N SE-3 380963E TO 381177E 2943111N TO 2943287N SE-4 380816E TO 381028E 294358	As per proposal development work is under progress	Development Work Not done in SE-1, due to local people hindrance. Instead we develop new small pit near to SE-1 to develop local people economy.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches	As per proposal	

2c	Stripping ratio or ore to OB ratio	1:1.14	1:0.57	
2d	Quantity of topsoil generation in m3	98249	2000	
2e	Quantity of overburden generation in m3	497762	70000 CuM.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Less developement due to lesser production of Limestone.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	15 Nos Pit NW-1, NW-2, NW-2II, NW-2III, NW-3, SE-1, 2, 2-II, 2III, 3, 4, 5, 6, 7, 7I	As per proposal	Pit SE-1 not in working due to local problems
3b	Quantity of ROM mineral production proposed	951534 tonnes	232255 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	Nil	Nil	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	

3h	Manual / Mechanised method adopted for segregating from ROM	By Sizing and screening	As per proposal
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	2.5ft and 5 ft Jack Hammer and manual breaking	2.5ft and 5 ft Jack Hammer and manual breaking
3k	Provision of mining machineries in mineral benches	JCB machine used for removal OB	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	4 benches in limestone height 2-3 meters and OB in 2 benches with 3 meter height	As per proposal
3m	Total area covered under excavation/pits	-	66.16 Hect
3n	Ore to OB ratio for the pit/mine during the year.	1:0.44	1
3o	Total area put in use under different heads at the end of year	-	As per proposal 66.16
3p	Production of ROM mineral during the last five year period as applicable	2013-14 376315 2014-15 428355 2015-16 449700 2016-17 651381 2017-18 700220 2018-19 750649	2013-14 283571 2014-15 385745 2015-16 437000 2016-17 440000 2017-18 440000 2018-19 439000

3q	General remarks of inspecting officers on method of mining etc.	Less production due to low market demand of cement and also work has not been carried out in SE-1 pit.
----	---	--

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	As per proposal	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	Nil	Nil	
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)	-	-	
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	-	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Dumping work has been carried out as per approved proposal.

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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Violation letter issued under rule 11(1) of MCDR, 2017 for not backfilling as per proposal.

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).	-	Submitted on times	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Nil	Nil	
6e	Cumulative no .of plants	Nil	Nil	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly, half yearly and Annually monitored	Quarterly, half yearly and Annually monitored
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1119452 tonnes	232255 tonnes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	By Sizing and screening	By Sizing and screening	
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Work has been carried out as per proposal.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	98249 CuM.	2000 CuM	

8b	Concurrent use or storage of topsoil	Used for plantation	Used for plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only for OB	Only for OB
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 Nos plants	4000 Nos with in ML and 200 Nos outside ML
8g	Survival rate	-	-
8h	Water sprinkling on roads to control airborne dust	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R Submitted upto Nov. 2019 A.R. Submitted upto March 2019		

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits 66.16ha. Reclaimed area- Nil Dump area- 21.30 ha
9d	Scrutiny of Annual return on afforestation	4000 in lease 200 outside lease
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock limestone 13001.76 31.03.2019
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex . Mine price Rs.476 per ton
9h	Scrutiny of Annual return on fixed assets	Rs.84014753. 00
9k	Scrutiny of Annual return on mining machineries	Back HOE 0.90CUM. DUMPER 10-15 TONNES, AIR COMPRESSOR 120 CUM/MN

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)	19-FEB-20			

Date :

(Kotriwal B.L.)

Indian Bureau of Mines