

**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 : 10-SEP-16
- (v) Prev.inspection date : 20-MAR-15

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.c
- 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 :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
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. K. Maheshwari
 Ultratech Cement Ltd. Birla
 White, D-7, Shastri Nagar,
 Jodhpur JODHPUR RAJASTHAN
 Phone:
 FAX :

Agent : B K Bardia
 Ultra Tech Cement Ltd.
 Birla White, D -7, Shastri
 Nagar, Jodhpur JODHPUR
 RAJASTHAN
 Phone: 02920264040
 FAX :

Mining Engineer

Name : Sachin Tonge, Full Time
 Qualification : B E (Mining)
 Appointment/ : 01-JAN-14
 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 Plan/Scheme of Mining : MP modif under MCR 1960 08-JUN-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	A total of 22 core bore holes were proposed to be made at 100m grid during 2016-17.	No work as proposed had been done in the mine.	
1b	Exploration over lease area for geological axis 1 or 2	At G1 level.	Not done	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	28 corebore holes at 100m grid proposed during 2017-18, area not specified.	Not applicable	
1e	Balance reserve as on 01/04/20	9.39 million tonne of white cement grade under 111 proved category.	14.5031 Million tonnes under 111 & 122 category.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The deviation of exploration work for the year 2016-17 had been pointed out as VL.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	In 2016-17 the work in Block-B, Block-C, Block-E & Block-G had been proposed.	Being done as proposed.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes separate benches in top soil, O/B waste & in mineral had been proposed.	Being done, however the bench in O/B waste had not been kept in advance of the bench in mineral so as to avoid interference of workings of mineral bench.	This deviation had been pointed out as VL.
2c	Stripping ratio or ore to OB ratio	1 : 0.6	1: 0.35 as reported.	
2d	Quantity of topsoil generation in m3	17928 Cu M in 2015-16, & 32979 Cu m during 2016-17	1000 Cu M in 2015-16.	
2e	Quantity of overburden generation in m3	182634 Cu M in 2015-16.	152468 Cu M in 2015-16 as reported.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The development of blocks is lagging to that of proposed.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Five	Five	
3b	Quantity of ROM mineral production proposed	449700 t during 2015-16	435105 t during 2015-16	
3c	Recovery of sailable/usable mineral from ROM production	From 65% to 75%	Not reported	
3d	Quantity of mineral reject generation	No reject generation is there.	No reject generation is there.	
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Not applicable	
3f	Quantity of sub grade mineral generation.	161996 T during 2015-16.	2571.35 T during 2015-16 excluding part of Sub Grade sold to outside Party for portland cement/ chemical grade.	

3g	Grade of sub grade mineral generation	High Iron content	High Iron content
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.	Not proposed during the plan period.	Not applicable
3j	Provision of drilling and blasting in mineral benches	Jack hammer drilling & blasting with slurry explosive.	Being done
3k	Provision of mining machineries in mineral benches	100 mm dia holes by wagon drill in O/B Benches & loading by JCB.	Being done
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	1.0 ha during 2015-16.	Not Reported
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.40 during the year 2015-16	1: 0.37 during the year 2015-16
3o	Total area put in use under different heads at the end of year	2.0 ha during 2015-16 including pitting & waste dumping.	2.0ha
3p	Production of ROM mineral during the last five year period as applicable	2010-11= 309512T, 2011-12= 337143T, 2012-13= 350021T, 2013-14= 376315T, 2014-15= 428355 T, 2015-16= 449700 T	2010-11= 337800 T, 2011-12= 368300 T, 2012-13= 342750 T, 2013-14= 283571 T, 2014-15= 221700 T, 2015-16= 435105 T

3q General remarks Not applicable The method of mining is of inspecting officers on method of mining etc. suitable to the type of deposit.

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	The O/B will be dumped by expanding existing dumps as per plan. Top soil use in plantation.	Being done	
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)	Outside UPL	Being done	
4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	02	02	
4g	Number of dumps established.	02	02	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Not specified	250m retaining wall & 600 m garland drain made during 2016-17.	
4j	Number of settling ponds	Not specified	03	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The general house keeping of dumps is satisfactory.	

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.	No proposal of backfilling during 2015-16, however backfilling is to be started in 2016-17 after full extraction.	No proposal of backfilling during 2015-16, however backfilling is to be started in 2016-17 after full extraction.	
5b	Area under backfilling of mined out area	No proposal for 2015-16.	Not applicable.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal for 2015-16.	Not applicable.	
5d	Total area fully reclaimed and rehabilitated	No proposal for 2015-16.	Not applicable.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable.	There was no proposal of backfilling during earlier approved plan period, during current plan period the proposals had been given which are yet to be implemented.	

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	Not submitted	The deviation had been pointed out as VL.
6b	Area available for rehabilitation (ha) .	Not applicable for 2015-16.	Not applicable.	
6c	afforestation done (ha).	0.6 ha during 2015-16	1.0 ha	
6d	No. of saplings planted during the year	1150 Nos	1100 Nos in ML & 200 Nos outside ML	
6e	Cumulative no .of plants	Not specified	21000 in ML & 3200 outside ML	

6f	Any other method of rehabilitation	Not specified	Not applicable
6g	Cost incurred on watch and care during the year	Rs. 48000/-	Rs. 60000/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not Specified	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Specified	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Not Specified	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Specified	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Specified	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not Specified	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not Specified	Not applicable

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Specified	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air quality, water quality, Noise & Vibrations monitoring done as per SPCB conditions on monthly, quartely & annual bassis.	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The annual compliance report for the year 2015-16 of PMCP work had not been submitted which had been pointed out as VL.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The ROM mineral proposed to be dispatched to the captive White cement plant.	Being done	
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 & high Iron sub grade mineral	Being done	
7d	Any beneficiation process at mines	No proposal	Not applicable	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	The lessee's conduct towards conservation of mineral is satisfactory.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	17928 Cu M removal proposed	1000 Cu m stacked & rest used for plantation during 2015-16. Presently there is no stack.	
8b	Concurrent use or storage of topsoil	Concurrent use proposed	Being done	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps for O/B waste.	being done	
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 proposals for the year 2015-16.	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1150 Nos of plants proposed to be planted during 2015-16 over an area of 0.6 ha.	1000 nos planted within ML & 200 out side ML over 1.0 ha total area.	
8g	Survival rate	Not specified	about 70%.	

8h	Water sprinkling on roads to control airborne dust	Yes proposed	Being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The aesthetic beauty in & around the mine is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R submitted upto July 2016 & A/R submitted upto 2015-16.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes Given	Found OK	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes given	Found OK	
9d	Scrutiny of Annual return on afforestation	Yes Given	Found OK	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes Given as nil	Found OK	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes Given	Found OK	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes Given	Found OK	
9h	Scrutiny of Annual return on fixed assets	Yes Given	Found OK	

9k	Scrutiny of Annual return on mining machineries	Yes Given	Found OK
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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
Rule 13(1)	04-OCT-16				
Rule 15(2)	04-OCT-16				
Rule 23E(2)	04-OCT-16				
Rule 46	04-OCT-16				

Date :

(Sharma H.C.)

Indian Bureau of Mines