

**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 : **J003** ) **Jangid G.K.**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri Gopi Chand Dhayal, AVP (Mines) and Sri Vivek Bha  
Official with  
Designation
- (iv) Date of Inspection : 14-JAN-23
- (v) Prev.inspection date : 24-OCT-21

**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.c
- 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 : 400.7
- (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 : Alok Nigam  
 Ultratech cement Ltd.,Unit-  
 Birla White,PO-Kharia  
 Khangar, District-Jodhpur  
 JODHPUR RAJASTHAN  
 Phone: 7722031570  
 FAX : 7722031570

## 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 16-JUN-21  
 Termination date

## Geologist

Name : Sumit Kumar,Full Time  
 Qualification : MSC Geology  
 Appointment/ : 17-JUN-21  
 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
MP review under 17(1) MCR 2016	10-DEC-21

## 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 2021-22.	Not applicable as no proposal.	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	No exploration carried out.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Complete lease area is reported as explored under G-1 category.	Not applicable.	Entire mineralised area has been explored under G1 level.
1e	Balance reserve as on 01/04/20	No specific proposal given.	Balance reserve as on 01.04.2022 are 11.347mt as per AR	
1f	General remarks of inspecting officers on geology, exploration etc	Nil	Nil	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-1: 55 S- 237 S & 495W- 650W Pit-3: 08 N-75 N & 815 W- 905 W Pit-4: 90 S-30 N & 162W-300W Pit-5: 1040S- 1100 S & 1970 W-2107W	Development has been carried within approved limit during reporting year.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed. Top soil 1m, OB bench 7m, Limestone 4m	Separate benches in OB & mineral are having Top soil 0.25-0.50 m, OB bench 7m and Limestone 4m in two benches	

2c	Stripping ratio or ore to OB ratio	1:0.68	1: 0.93
2d	Quantity of topsoil generation in m3	2351m3	300m3
2e	Quantity of overburden generation in m3	38415m3	35844m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Bench height & width varies in OB and mineral.

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 (Pit- 1,3,4,5)	4 (Pit-1,3,4,5)	
3b	Quantity of ROM mineral production proposed	148987t	96500t	
3c	Recovery of sailable/usable mineral from ROM production	134088t	86929.22t 10 % interburden in the form of clay	
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	Manual sorting only.	Manual sorting	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	No		
3j	Provision of drilling and blasting in mineral benches	Using 32 mm and 100 mm dia drill machine	Using 32 mm and 100 mm dia drill machine		
3k	Provision of mining machineries in mineral benches	L&T Shovel with 15 t tipper	As per proposal		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB Bench is 2-7M and Limestone bench 2 -4M	Within proposal		
3m	Total area covered under excavation/pits	15.41 ha	15.67ha		
3n	Ore to OB ratio for the pit/mine during the year.	1:0.68	1:0.93		
3o	Total area put in use under different heads at the end of year	25.54ha	25.06ha		
3p	Production of ROM mineral during the last five year period as applicable	2017-18 149275t, 2018-19 149850t, 2019-20 149850t, 2020-21 134883, 2021-22 134088	2017-18 66050t, 2018-19 66500t, 2019-20 83000t, 2020-21 70000t and 2021-22 87000t		Less production than target
3q	General remarks of inspecting officers on method of mining etc.		Opencast method of mining has been practiced for surface deposit.		

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate disposal of top soil, OB and Reject has been proposed.	Top soil spreads over backfilled area. No mineral reject generation. OB/IB disposed as per proposal.
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 out area of pit 1. Waste generated from pit 5 has been proposed to dump near Pit. Top soil stack-5 1260S-1460S -1940W-2050W	Top soil generated has been spread over backfilled area and disposal of OB has been observed as per proposal.
4c	Number of dumps within lease area and outside of lease area	04 (within lease area)	04 (within lease area)
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	Outside of UPL
4e	Number of active and alive dumps.	1	1
4f	Number of dead dumps.	3	3
4g	Number of dumps established.	1	1
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not maintained.
4i	Length of Retaining wall or garland drain all along dumps	No	Not maintained.
4j	Number of settling ponds	No	No
4k	Specific comments of inspecting officer on waste dump management		No specific issue observed related to waste dump management.

## 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.	After full extraction of mineral.	As per proposal.	
5b	Area under backfilling of mined out area	0.22Ha	0.22Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Used for plantation	Used for plantation	
5d	Total area fully reclaimed and rehabilitated	No proposal	Total area 0.22 ha area reclaimed by plantation	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling has been carried out.

## 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 2021-22 has been submitted on 17.05.2022.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha) .	1.5ha	1.5ha	
6d	No. of saplings planted during the year	600 Nos.	600 Nos.	
6e	Cumulative no .of plants		16912 nos	
6f	Any other method of rehabilitation	No	No	



6g	Cost incurred on watch and care during the year	45000	600000
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.22 ha	55 x 50 x 8
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.22ha	0.22ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	200	200
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Water scarcity area.
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	200nos	200nos
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.5ha	0.5ha

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation		Using top soil and agriculture waste for plantation on Waste land	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Half yearly	Quarterly monitoring of air, water and noise of core zone and buffer zone location	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP Compliances satisfactory.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	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.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Not applicable. Manual sorting of the clay intrusion part embedded with in ROM.	
7c	Different grade of mineral sorted out at mines.	No proposal, as limestone is suitable for white cement.	Only white cement grade limestone for captive cement plant.	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to Mineral conservation.

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#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal of top soil.	Top soil removed separately.
8b	Concurrent use or storage of topsoil	Concurrent use, storage Nil	Concurrent use, storage Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps only for overburden/int erburden.	As per proposal.
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.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.22ha backfliing proposed of mined out area of Pit 1	0.22ha area backfilling carried out in Pit 1.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	600 saplings has been proposed to plant.	600 sapling planted within ML area and 200 spalings outside ML area during the year.
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	Sprinkling on roads by water tanker	Sprinkling on roads by water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		The general aesthetic beauty in and around mine is satisfactory.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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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.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME- Daleep sodha, Geo.- Dr.Vivek R Bhardwaj, Manager-Daleep sodha	Information found correct.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Cumulative under Pit- 15.67Ha, Reclaimed & Backfilled- 7.40 Ha, Waste Disposal -7.24 Ha, Occupied by plant, buildings, residential, welfare buildings & roads-2.15ha etc.	Information furnished on land use pattern appears to correct.
9d	Scrutiny of Annual return on afforestation	600 within lease and 200 outside lease	Seems to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	No mineral reject generation reported.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock: NIL, Graded Ore Stock: 2509.37 as on 01.04.2022	Information found to be correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	379 per t	379 per t
9h	Scrutiny of Annual return on fixed assets	INR 34551651	Found to be correct
9k	Scrutiny of Annual return on mining machineries	BACK HOE 0.90m3, DUMPER 15t	These are hired machineries and found to be correct.

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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 :

(Jangid G.K.)

Indian Bureau of Mines