

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/SRH-26/LST-5

**Mine code :** 38RAJ24005

- (i) Name of the Inspecting : **G021** ) **D R GURJAR**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Rajendra Singh Mertia(Mine Manager)  
Official with  
Designation
- (iv) Date of Inspection : 10-AUG-23
- (v) Prev.inspection date : 11-JUN-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **THANDIBERI [256.00 HA]**
- (b) **Registration NO.** : **IBM/5630/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **SIROHI**
- Village : **THANDIBERI & SABELA**
- Taluka : **PINDWARA**
- Post office : **BINANIGRAM**
- Pin Code : **307025**
- FAX No. : **02971235020**
- E-mail : **gajendra.s@adityabirla.com**
- Phone : **02971235005**
- (f) **Police Station** : **Pindwara**
- (g) **First opening date** : **15-FEB-97**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **Ultratech Nathdwara Cement Ltd.**  
**correspondance** **Adityanagar, PINDWARA,**  
**DISTT- SIROHI**
3. (a) **Lease Number** : **RAJ1670**
- (b) **Lease area** : **256**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **26-JAN-46**
4. **Mineral worked** : **LIMESTONE** **Main**

## 5. Name and Address of the

Lessee : Ultratech Nathdwara Cement Ltd.  
Block D, 4th Floor, 22  
Camac Street, KOLKATA WEST  
BENGAL  
Phone:02971235005  
FAX :02971235020

Owner : Kailash Chandra Jhanwar  
Ultratech Nathdwara Cement  
Ltd. Ahura Centre, B Wing,  
II Floor, Mahakali Caves  
Road, Andheri, Mumbai MUMBAI  
(SUBURBAN) MAHARASHTRA  
Phone:  
FAX :

Agent : Shri Gajendra Singh  
UltraTech Nathdwara Cement  
Ltd.,  
Ad Adityanagar Pindwara,  
SIROHI RAJASTHAN  
Phone:  
FAX : 02971-235020

## Mining Engineer

Name : Rajendra Singh Mertia, Full Time  
Qualification : BE(MINING)  
Appointment/ : 13-APR-15  
Termination date

## Geologist

Name : Pranjal Bhatnagar, Full Time  
Qualification : M Sc (Tech)(Applied Geology)  
Appointment/ : 01-MAY-06  
Termination date

## Manager

Name : Rajendra Singh Mertia  
Qualification : BE(Mining)  
Appointment/ : 13-APR-15  
Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	10-AUG-98
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	25-SEP-02
		Modif.approved Mining Scheme	10-APR-03
		Modif.approved Mining Scheme	16-JAN-04
		Mining Scheme rule 12 MCDR1988	17-AUG-05
		Mining Scheme rule 12 MCDR1988	14-SEP-12
		MP modif under MCR 1960	06-MAY-16
		MP review under 17(1) MCR 2016	16-DEC-20
		MP modif under 17(3) MCR 2016	22-JUL-22

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2021-22 total 53 bore hole(5008.64m ) was proposed.	During the year 2021-22, drilling of 21 nos. of bore holes having 2024m has been carried out.	Due to shortfall of exploration drilling in the year 2021-22, violation was issued during the previous inspection vide letter dated 01.07.2022. In subsequent Modification of RMP(approved dated 22.07.2022) these bore holes rescheduled in the year 2022-23.
1b	Exploration over lease area for geological axis 1 or 2	During the year 2022-23, exploration proposed by way of 21 nos. of bore holes having 2015.3m.	During the year 2022-23, drilling of 21 nos. of bore holes having 2036m has been carried out.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Agency: TKB (Tapan Kumar Bid, Drilling Services, Nagpur) Expenditure: Rs. 50.30 Lakh	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Area already covered under G1 level, however exploration drilling proposal given to prove depth continuity of mineral.	Enitre mineralised area was already covered under G1 level.	Out of total 256 hect. lease area, mineralised area is 180 hect. which has been exploraed under G1 level. However to prove depth continuity of mineral exploration drilling carried out as per norms of MEMC Rules 2015.

1e	Balance reserve as on 01/04/20	As per approved document dated 22/07/2022, the position of reserve and resource as on 31/10/2022 was 108.63 and 132.56 million tonnes	Balance reserves as on 01.04.2023 108.2 million tons	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed related to geology & exploration. The exploration drilling has been carried out to prove depth continuity of mineral as per MEMC Rules 2015.

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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E311799.68 to E 312146.54 & N 2745304.24 to 2745906.93	E 311809.5 to E 312122.71 & N2745313.5 to E2745863	Mine development within proposed limit
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches proposed in Mineral only	Benches in Mineral only (Top soil intrusion available at somewhere).	Nil
2c	Stripping ratio or ore to OB ratio	2022-23: 1:0.18	2022-23: 1:0.14	Tonnes:Tonnes
2d	Quantity of topsoil generation in m3	Not proposed as top soil is not available.	Some intrusion of soil encountered and the same has been utilized for plantation simultaneously	Nil
2e	Quantity of overburden generation in m3	2022-23: 75180.4 m3	2022-23: 40728 m3	Nil

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mining operation shall be carried out in such a manner so as to ensure systematic development of mineral deposit & protection of environment whereas during the inspection large quantity of limestone boulders were lying all around in the mining pit, hence violation of Rule 12(1) of MCDR 2017 issued vide letter dated 25.08.2023.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	Nil
3b	Quantity of ROM mineral production proposed	2022-23: 1065000T	2022-23: 429582T	During the year 2022-23 total ROM production 429582 tonne has only been achieved against the proposal of 1065050 tonnes which is only 40.33% of the proposed production, hence violation of rule 11(1) of MCDR 2017 issued vide letter dated 25.08.2023.
3c	Recovery of sailable/usable mineral from ROM production	2022-23: 1065000T	2022-23: 429582T	Nil
3d	Quantity of mineral reject generation	No Proposal of Mineral Reject generation.	Mineral reject has not been generated during the year.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as no proposal of mineral reject generation.	Not applicable as no mineral reject has been generated.	Nil

3f	Quantity of sub grade mineral generation.	No Proposal of Sub-grade generation.	Sub-grade has not been generated during the year.	Nil
3g	Grade of sub grade mineral generation	Not applicable as no proposal of Sub-grade generation.	Not applicable as no Sub-grade has been generated.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	None	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study has been proposed.	Not applicable as no proposal.	Nil
3j	Provision of drilling and blasting in mineral benches	Drill machine of hole dia 115 mm, Blasting with ANFO /Emulking explosives using Nonels.	Drill machine of hole dia 115 mm, Blasting with ANFO /Emulking explosives using Nonels.	Nil
3k	Provision of mining machineries in mineral benches	Drill machine, Backhoe Hyd. Excavators, Tippers, Dozer, Water Tanker etc.	Drill machine, Backhoe Hyd. Excavators, Tippers, Dozer, Water Tanker etc.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches have been proposed to 8 mts.	Benches have been maintained to 8 mts as per proposal.	Nil
3m	Total area covered under excavation/pits	25.38 hect.	25.38 hect.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2022-23: 1:0.18	2022-23: 1:0.14	Tonnes:Tonnes
3o	Total area put in use under different heads at the end of year	Pits:25.38 Ha Roads, Plants, Buildings:0.60 Ha Waste Disposal 2.24 Ha	Pits:25.38 Ha Roads, Plants, Buildings: 0.40 Ha Waste Disposal-1.47 Ha	Up to 2022-23 (31.03.2023)

3p	Production of ROM mineral during the last five year period as applicable	2018-19: 1165010 T 2019-20:1165010 T 2020-21:1165010 T 2021-22:1065000 T 2022-23:1065000 T, 2023-24:2000492 T	2018-19: 444963 T 2019-20:438285 T 2020-21:313406 T 2021-22:522743 T 2022-23: 429582 T 2023-24: 149617 T(Till July 2023)	Nil
3q	General remarks of inspecting officers on method of mining etc.			Open cast mechanised mining method adopted which is best suited 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)	No proposal topsoil stacking, direct use in plantation. One OB/Waste dump has been proposed. No proposal of Mineral rejects generation.	Top soil generated has been utilized for plantation purpose. Dumping of the waste has been carried out as per proposal No mineral reject generation.	Nil
4b	Location of topsoil, OB and mineral reject dumps	No proposal topsoil stacking, direct use in plantation. OB/waste dumping has been proposed between grid E 312177.38 to E312377 & N 2745310.18 to N 2745460.33	Top soil generated has been utilized for plantation purpose. Waste dumping has been carried out between grid E 312215 to E312324 & N 2745355 to N2745455  No mineral reject generated.	Nil
4c	Number of dumps within lease area and outside of lease area	01	01	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of active and alive dumps.	One waste dump within ML	One waste dump within ML	Nil
4f	Number of dead dumps.	No proposal	Nil	Nil
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal given	Retaining wall & Garland drain found.	Nil
4i	Length of Retaining wall or garland drain all along dumps	2022-23: Length of garland drain 140m & retaining wall 200m.	2022-23: Length of garland drain 140m & retaining wall 200m.	Nil
4j	Number of settling ponds	No proposal	None	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue observed related to waste dump amangement.

#### 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 the year 2022-23 as no pit area is fully exhausted.	Not applicable as no proposal.	NIL.
5b	Area under backfilling of mined out area	No proposal of backfilling during the year.	None	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	It is proposed that generated top soil will be used for plantation purpose.	Some intrusion of soil encountered and the same has been utilized for plantation simultaneously	Nil



5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation during the year.	None during the year.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal of backfilling nor backfilling has not been observed. No pit area is matured for backfilling.

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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).	As per rule 26(2) of MCDR, 2017, PMCP report to be submitted for previous year by 1st July.	Annual PMCP report for reporting year 2022-23 has been submitted.	Timely submission
6b	Area available for rehabilitation (ha) .	2022-23: 0.75 hect.	2022-23: 0.75 hect.	Nil
6c	afforestation done (ha).	2022-23:0.75 hect. area	2022-23:0.75 hect area	Nil
6d	No. of saplings planted during the year	2022-23: 750 nos.	2022-23: 750 nos.	Nil
6e	Cumulative no .of plants	Not specified	25043 nos. within ML area	up to year 2022-23.
6f	Any other method of rehabilitation	Other than plantation, no specific proposal of any other method of rehabilitation	Only plantation work has been carried out.	Nil
6g	Cost incurred on watch and care during the year	No specific proposal	2022-23: Approx. Rs.291000	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal of backfilling.	No backfilling has been carried out during the year.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal of backfilling.	Not applicable as no proposal of backfilling.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal of backfilling.	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making water reservoir.	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No any other specific proposal.	Not applicable as no proposal.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	It was proposed to plant 750 numbers of saplings during the year.	During the year 750 number of saplings have been planted.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.75 hect. area	0.75 hect. area	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation.	Plantation.	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Provision of environment monitoring stations has been given.	Environment monitoring parameters are found to be within permissible limit.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP Compliances is 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	No specific grade wise sorting has been proposed. Entire ROM will be dispatched.	As per proposal	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	None	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	None	Nil
7d	Any beneficiation process at mines .	No proposal of any beneficiation process.	Not applicable as no proposal of beneficiation.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no issue 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)	It is proposed that generated top soil will be used for plantation purpose.	As per proposal	Nil
8b	Concurrent use or storage of topsoil	It is proposed that generated top soil will be used for plantation purpose.	As per proposal	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste/OB has been proposed. No proposal of generation of rejects and fines during the RY.	Waste has been dumped at its designated place.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal of use of overburden/ waste rock for restoring the land to its original use.	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal given during the reporting year.	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	It was proposed to plant 750 numbers of saplings during the reporting year.	During the year 750 number of saplings have been planted during the reporting year.	Nil
8g	Survival rate	No specific proposal of survival rate.	80%	As per AR 2022-23.
8h	Water sprinkling on roads to control airborne dust	To control the air born dust particle, water sprinkling has been proposed.	Water sprinkling has been observed during the mine inspection.	Nil

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The general aesthetic beauty is satisfactory in and around mine area.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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 timely.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details in AR 2022-23: Sh. Rajendra Singh Mertia. (Mining Engineer and Manager) Sh. Pranjal Bhatnagar (Geologist)	Correct detail furnished.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR 2022-23: Mine working 25.38 Ha Roads, Plants, Buildings, Township 0.4Ha Waste Disposal-1.470 Ha Green belt 11.3 Ha	Seems to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	AR 2022-23: Within ML 750 nos saplings reported	seems corrected	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR 2022-23: Mineral reject generation: NIL	Seems correct	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR 2022-23: ROM and Graded closing stock: NIL	The information furnished is found to be in order.	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR 2022-23: No sale of mineral only captive use of mineral. Ex. Mine Price & Production cost Rs. 402.70 per tonne.	Information furnished appears to be corrected.	Nil
9h	Scrutiny of Annual return on fixed assets	AR 2020-21 Rs. 66822023	Seems correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Details given in AR 2022-23.	Seems correct.	Nil

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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
MCDR17	Rule 11(1)	25-AUG-23			
MCDR17	Rule 12(1)	25-AUG-23			

**Date :**

(D R GURJAR)

Indian Bureau of Mines