

**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 : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Rajendra Singh Mertia, Mine Manger and Sri Pranja  
Official with  
Designation
- (iv) Date of Inspection : 07-OCT-19
- (v) Prev.inspection date : 17-JAN-19

**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 : Rajendra.Goyal@adityabirla
- 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 Binanigram, PINDWARA,  
DIST- 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.  
 Ultratech Nathdwara Cement  
 Ltd. Binanigram-307031,  
 Pindwara, Disstt.- Sirohi  
 (Rajasthan) SIROHI  
 RAJASTHAN  
 Phone:02971235005  
 FAX :02971235020

Owner : Kailash Chandra Jhanwar  
 Ultratech Nathdwara Cement  
 Ltd. Ahura Centre, B Wing,  
 II Floor, Mahakali Caves  
 Road, Andheri, Mumbai SIROHI  
 RAJASTHAN  
 Phone:  
 FAX :

Agent : R K Goyal  
 Ultra Tech Nathdwara  
 Cement Ltd. Binanigram,  
 Pindwara, Disstt. Sirohi  
 (Rajasthan) SIROHI  
 RAJASTHAN  
 Phone: 02971235005  
 FAX : 02971235020

## 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

## 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 the previous year.	Not applicable as no proposal.	No backlog.
1b	Exploration over lease area for geological axis 1 or 2	No year wise specific proposal of exploration. It is proposed to drill 49 BH in conceptual mine plan.	No exploration work has been carried out.	Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 18/10/2019.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal of exploration agency and expenditure.	Not applicable as no exploration has been carried out.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific information on balance area to be explored under G1/G2 level of exploration.	As reported an area of 220 Ha. has been explored under G1 level of exploration.	NIL.
1e	Balance reserve as on 01/04/20	As per approved document dated 06/05/2016, the position of reserve and resource as on 01/04/2015 was 155.28 million tonnes and 106.01 million tonnes respectively.	The position of reserve and resources as on 01/04/2019 was 153.66 million tonnes and 106.01 million tonnes respectively.	Position of reserve and resource as per AR 2018-19.

1f	General remarks of inspecting officers on geology, exploration etc	No year wise specific proposal of exploration. It is proposed to drill 49 BH in conceptual mine plan.	No specific comment as no exploration work has been carried out.	NIL.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Mine development has been proposed between grid line N2745650 to N2745260 ; E311755 to E312208.	Mine development for the year 2082-9 has been observed as per proposal i.e. within grid lines N2745650 to N2745260; E311755 to E312208.	NIL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No specific proposal of separate top soil benches. OB and Limestone is proposed remove separately.	Development of the pit has been carried out as per proposal. Benches have been maintained as per proposal.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.18 T/T	1:0.23 T/T	NIL.
2d	Quantity of topsoil generation in m3	No specific proposal of top soil generation. It is proposed that generated top soil will be used for plantation purpose.	A quantity of 220 tonnes has been generated during the year and entire quantity generated has been utilized for plantation purpose.	NIL.
2e	Quantity of overburden generation in m3	82236 CuM or 205590 Tonnes.	41367.2 CuM or 103418 Tonnes.	NIL.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Considering the near surface deposit open pit development has been proposed.	Development has been carried out through open pit.	One pit has been developed for the production of mineral.
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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	1165010.00 tonnes	444963.00 tonnes.	Less production of limestone is due to fewer requirements from the plant.
3c	Recovery of sailable/usable mineral from ROM production	1165010.00 tonnes.	444963.00 tonnes.	Less production of limestone is due to fewer requirements from the plant.
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 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	Crushing and screen through mechanical means.	Crushing and screen through mechanical means.	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.	Drill machine, Backhoe Hyd. Excavators, Tippers, Dozer, Water Tanker.	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	As per approved document dated 06/05/2016, area put under excavation at the end of the plan period was 29.35 Ha	As on 01/04/2019, area put under excavation was 24.56 Ha.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.18 T/T	1:0.23 T/T	NIL.
3o	Total area put in use under different heads at the end of year	As per approved document dated 06/05/2016 total area proposed to put under different heads at the end of the plan period was 42.66 Ha.	As on 01/04/2019, total area put under different heads at the end of the year was 35.868 Ha.	As per AR 2018-19.
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 10,65,000 MT 2015-16: 10,65,000 MT 2016-17: 6,99,998 MT 2017-18:- 7,69,760 MT 2018-19 :1165010 MT	2015-16: 5,37,669.00MT 2016-17: 4,73,827.00 MT 2017-18:- 1,57,251.00 MT 2018-19 : 444963 MT	NIL.

3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining has been proposed.	Open cast Mining method is being practiced.	No issues related to method of mining.
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### 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 lines E312150-312300; N2745200-2745480.	Top soil generated has been utilized for plantation purpose. Waste dumping has been carried out between grid lines E312150-312300; N2745200-2745480. No mineral reject generation.	NIL.
4c	Number of dumps within lease area and outside of lease area	One waste dump within ML area.	One waste dump within ML area.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste dump has been proposed Outside UPL.	Waste dumping has been observed as per proposal.	NIL.
4e	Number of active and alive dumps.	One waste dump within ML area.	Only one waste dump is exists within lease area which is active.	NIL.
4f	Number of dead dumps.	NIL.	NIL.	NIL.
4g	Number of dumps established.	NIL.	NIL.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal of retaining wall and garland drain during the year.	Garland Drain & Retaining wall has not been observed at places	Violation of rule 12(1) of MCDR, 2017 issued vide letter dated 18/10/2019.

4i	Length of Retaining wall or garland drain all along dumps	No proposal of retaining wall and garland drain during the year.	Length of garland drain is about- 20 x 01x 01 mtrs., retaining wall - 10 x 2 x 2 mtrs has been constructed during the year.	NIL.
4j	Number of settling ponds	No proposal.	Not applicable as no proposal.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Waste dumping has been proposed over exiting waste dump.	Dumping of waste has been carried out as per proposal.	Violation of MCDR issued for non-construction of retaining wall and garland drain at places along the waste dump.

#### 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 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.	Not applicable as no proposal.	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.	A quantity of 220 tonnes has been generated during the year and entire quantity generated has been utilized for plantation purpose.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation	Not applicable as no proposal.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling.	Backfilling has not been observed.	No pit area is matured for backfilling.

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 i.e. 2018-19 has been submitted.	NIL.
6b	Area available for rehabilitation (ha) .	An area of 0.40 HA. (bench plantation and waste land plantation) has been proposed for rehabilitation /afforestation .	An area of 0.4 Ha of waste land has been planted during the year.	Violation of rule 11(1) of MCDR has been issued for no bench plantation vide letter dated 18/10/2019.
6c	afforestation done (ha).	An area of 0.40 HA. (bench plantation and waste land plantation) has been proposed for rehabilitation /afforestation .	An area of 0.4 Ha of waste land has been planted during the year.	Violation of rule 11(1) of MCDR has been issued for no bench plantation vide letter dated 18/10/2019.
6d	No. of saplings planted during the year	750 numbers.	750 numbers.	NIL.
6e	Cumulative no .of plants	A total of 2250 number of saplings to be planted by the end of 2018-19.	A total of 2650 number of plants have been planted by the end of 2018-19.	NIL.
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.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal of backfilling.	No work related to 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.	Not applicable as no proposal of backfilling.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making reservoir.	Not applicable as no proposal of making reservoir.	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 plan to plant 750 numbers of saplings.	During the year 750 number od saplings have been planted.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	An area of 0.18 Ha of waste land has been proposed.	An area of around 0.4 Ha has been afforestation/ rehabilitation.	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.	An area of 0.40 Ha. (bench plantation and waste land plantation) has been proposed for rehabilitation /afforestation	An area of 0.4 Ha of waste land has been planted during the year.	Violation of rule 11(1) of MCDR has been issued for no bench plantation vide letter dated 18/10/2019.
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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 has been proposed to crush and screen.	Crushing and screening of ROM has been observed.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Crushing and screening by mechanical means.	Crushing and screening by mechanical means.	NIL.
7c	Different grade of mineral sorted out at mines.	No specific grade wise sorting has been proposed. Entire ROM has been proposed to crush and screen.	Crushing and screening of ROM has been observed.	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	Entire ROM is proposed to be utilized.	There is no specific issue related to mineral conservation.	NIL.

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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.	A quantity of 220 tonnes has been generated during the year and entire quantity generated has been utilized for plantation purpose.	NIL.
8b	Concurrent use or storage of topsoil	It is proposed that generated top soil will be used for plantation purpose.	A quantity of 220 tonnes has been generated during the year and entire quantity generated has been utilized for plantation purpose.	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 2018-19.	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.	Overburden, waste rock and Rejects are presently stored at earmarked location.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	An area of 0.40 Ha has been proposed to rehabilitate/a fforestation during the year 2018-19 within lease area by the way of plantation.	An area of 0.4 Ha has been rehabilitated/afforested during the year 2018-19 within lease area by the way of plantation.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	It was plan to plant 750 numbers of saplings.	During the year 750 number of saplings have been planted.	NIL.
8g	Survival rate	No specific proposal of survival rate.	Survival rate for the reporting year was around 85.00 %.	NIL.

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	It is propose to plant 750 number of sapling over an area of 0.40 Ha.	A total of 750 number of plant has been planted over an area of 0.40 Ha. Aesthetic beauty around the mine is maintained.	NIL.

#### 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 for reporting year.	Scrutiny of Annual return 2018-19.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information has been furnished about Mining Engineer, Geologist, and Manager.	Mining engineer and Geologist are appointed.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mine working 24.56 Ha Dumps 0.725Ha Roads, Plants, Buildings, Township 0.40Ha Reclaimed/Rehabilitated 0.50Ha Other Plantation 9.68Ha. Total area: 35.865 Ha	The land use pattern is found to be in order.	NIL.
9d	Scrutiny of Annual return on afforestation	Within ML 750 Nos Outside ML 2180 Nos	Information furnished appears to be corrected.	NIL.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generation: NIL	No mineral reject has been generated.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and Graded 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	No sale of mineral only captive use of mineral. Ex. Mine Price & Production cost Rs. 335.40 per tonne.	Information furnished appears to be corrected.	NIL.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset furnished is Rs. 38950004/-	The value of fixed asset furnished appears to be in order.	NIL.
9k	Scrutiny of Annual return on mining machineries	Blast hole drill, Back Hoe, Dozer, Tipper etc.	The information furnished on mining machineries appears to be in order.	NIL.

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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
MCDR17	Rule 11(1)	18-OCT-19	03-DEC-19				
MCDR17	Rule 12(1)	18-OCT-19	03-DEC-19				
MCDR17	Rule 45(7)(a)	18-OCT-19	03-DEC-19				

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines