

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/SRH- 25/LST- 4

**Mine code :** 38RAJ24004

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Pankaj Kumar, Mine Manger and Sri Mohammad Siddi  
Official with  
Designation
- (iv) Date of Inspection : 09-OCT-19
- (v) Prev.inspection date : 16-JAN-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **AMLI**
- (b) **Registration NO.** : **IBM/5630/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : SIROHI  
Village : AMLI AND MALAP  
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-JAN-97
- (h) Weekly day of rest : SUN
2. Address for : Ultratech Nathdwara Cement Ltd.  
correspondance Binanigram-307031, Pindwara,  
Disstt.- Sirohi (Rajasthan)
3. (a) Lease Number : RAJ1671
- (b) Lease area : 468.69
- (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 : Pankaj Kumar, Full Time  
 Qualification : Mining Engineering  
 Appointment/ : 19-JAN-16  
 Termination date

## Geologist

Name : Mohamad Sidik, Full Time  
 Qualification : M Sc (Tech) (Applied Geology)  
 Appointment/ : 20-NOV-18  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	14-SEP-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
		Modif.approved Mining Scheme	13-OCT-09
		Mining Scheme rule 12 MCDR1988	14-SEP-12
		MP modif under MCR 1960	05-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 specific year wise proposal of exploration. However, proposal of exploration by 75 number of BH has been envisaged in the conceptual plan.	Exploratory drilling has been started as per plan furnished of the show-cause notice.	Violation and Show-cause for no drilling has been issued vide this office letter number dated 12.02/2019 and 14/05/2019 respectively.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal about exploration agency and expenditure.	Not applicable as no exploratory drilling has been carried out during the reporting year 2018-19.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal about balance area to be explored under G1/G2 level of exploration.	As reported during mine inspection an area of around 80 Ha. is yet to explore under G1/G2 level of exploration.	Mineralized- 315.91Ha, G1 area- 245.91 Ha
1e	Balance reserve as on 01/04/20	As per approved document dated 06/05/2016, the position of reserve and resource as on 05/05/2015 was 223.09 million tonnes and 125.75 million tonnes respectively.	The position of reserve and resources as on 01/04/2019 was 208.88 million tonnes and 125.75 million tonnes respectively.	Position of reserve and resource as on 01/04/2019 is as per AR 2018-19.

1f	General remarks of inspecting officers on geology, exploration etc	No specific proposal of exploration for Reporting year. However, proposal of exploration by 75 number of BH has been envisaged in the conceptual plan.	Exploratory drilling has been started as per reply of the show-cause notice.	NIL.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development has been proposed at three locations: (1) Existing pit between grids E307970-309710/N274647 0-274537 (2) Between grids E309960-310400/N274700 0-2747600 (3) Between grids E309320-309740-N274524-2745880.	Development has been carried out only within the proposed grid of the existing pit i.e. E307970-309710/N2746470-274537	Development has not been carried out as per proposal due to less demand of raw material from plant.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of separate benches in top soil. Proposal has been envisaged for separate removal of Waste and Limestone.	Top soil generated has been utilized for plantation purpose. Separate benches have been observed in waste and mineral.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.38 CuM/CuM	1:0.59 CuM/CuM	Violation of MCDR has been issued vide letter dated 18/10/2019.

2d	Quantity of topsoil generation in m3	It is proposed that generated top soil will be used for plantation purpose.	A quantity of 324 tonnes has been generated during the year and entire quantity has been consumed for plantation purpose.	NIL.
2e	Quantity of overburden generation in m3	1771181.00 CuM.	784428.00 CuM	NIL.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Three locations have been proposed for the development.	Development has been carried out within existing pit.	Development has not been carried out as per proposal due to less demand of raw material from plant.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three.	Only one pit has been developed due less market demand.	NIL.
3b	Quantity of ROM mineral production proposed	11782023MT	3321025 MT	Less production is due to less demand from cement plant as 3rd unit is not installed.
3c	Recovery of sailable/usable mineral from ROM production	10486001 MT	3321025 MT	Less production is in account of less demand from cement plant.
3d	Quantity of mineral reject generation	1296023 MT of screen reject has been proposed to generate.	Screen reject of 455884 MT has been generated.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	< 34%CaO	30%CaO	The grade of the Screen reject is below threshold value.
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.	

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 10 mts.	Benches have been maintained to 10 mts as per proposal.	NIL.
3m	Total area covered under excavation/pits	As per approved document dated 05/05/2016, area put under excavation at the end of the plan period was 163.40 Ha.	As on 01/04/2019, area put under excavation was 118.82 Ha.	As per AR 2018-19.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.38 CuM/CuM	1:0.59 CuM/CuM	Violation of MCDR has been issued vide letter dated 18/10/2019.

3o	Total area put in use under different heads at the end of year	As per approved document dated 05/05/2016 total area proposed to put under different heads at the end of the plan period was 244.32Ha.	As on 01/04/2019, total area put under different heads at the end of the year was 192.68 Ha.	As per AR 2018-19
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 71,66,430MT 2015-16: 71,66,430MT 2016-17: 7134830 MT 2017-18: 7831910 MT 2018-19: 11782018 MT	2014-15:4759451 MT 2015-16:451052 MT 2016-17:3945048 MT 2017-18: 2428133MT 2018-19: 3307098 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. Mineral reject (i.e. Screen reject) is proposed to dump separately over existing screen reject dump.	Top soil generated has been utilized for plantation purpose. Dumping of the waste and screen reject has been carried out as per proposal.	NIL.

4b	Location of topsoil, OB and mineral reject dumps	No proposal topsoil stacking, direct use in plantation. Dumping of the waste (face reject and screen reject) has been proposed at four locations. Face reject (1) N2746960-2747510/E30960-0-310060, New location (2) N2745630-2746120/E30810-0-308520, existing dump (3) N2746270-2746580/E30840-0-308660, existing waste dump. Screen Reject at one location between N2746560-2746930/E30849-0-309220, Existing screen reject dump.	Topsoil is stacked at year marked location and simultaneously used in plantation. Dumping of the face reject has been carried out over the exiting two dumps i.e. between grid lines (1) N2745630-2746120/E308100-308520 (2) N2746270-2746580/E308400-308660. New proposed location has not been utilized for dumping due to less generation of waste. Screen reject has been dumped as per proposal between grid lines N2746560-2746930/E308490-309220.	NIL.
4c	Number of dumps within lease area and outside of lease area	Inside ML: 04 numbers of dumps has been proposed. No proposal of dumping of waste outside of the lease area.	Inside ML: Dumping has been carried out over three locations. One newly proposed location has not been utilized for waste dumping. Outside ML: There exist two old dumps outside of the lease rea one face reject dump and one screen reject dump near boundary pillar C.	Face dump near boundary pillar C is partially inside and outside of the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The proposal of waste dumping has been given outside of the lease area.	Dumping of the waste has been carried out as per proposal during the reporting year.	NIL.

4e	Number of active and alive dumps.	04 locations have been proposed for active dumping (Three face reject and one Screen Reject dump).	Dumping has been carried out actively over three locations (Two face reject and one Screen Reject dump).	NIL.
4f	Number of dead dumps.	No proposal.	Not applicable.	NIL.
4g	Number of dumps established.	No proposal.	Not applicable. Outside ML dumps are being established through plantation.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal of retaining wall and garland drain during the year.	Retaining wall and garland drain has not been observed along screen reject dump.	Violation 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.	Not applicable as no proposal.	NIL.
4j	Number of settling ponds	No proposal of construction of settling tank.	Not applicable as no proposal.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Four locations has been proposed for waste dumping.	Waste dumping has been carried out at three locations due to less generation of waste. Old waste dumps outside of the lease area being established through plantation.	NIL.

#### 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 324 tonnes has been generated during the year and entire quantity has been consumed 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 carried out during the reporting year.	No pit area is matured for backfilling.

#### 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 for the year 2018-19 has been submitted.	NIL.
6b	Area available for rehabilitation (ha) .	An area of 1.0 Ha has been proposed afforestation/ rehabilitation over matured benches.	An area of around 1.09 Ha has been afforestation/ rehabilitation.	NIL.
6c	afforestation done (ha).	An area of 1.0 Ha has been proposed afforestation/ rehabilitation over matured benches.	An area of around 1.09 Ha has been afforestation/ rehabilitation.	NIL.
6d	No. of saplings planted during the year	It was plan to plant 1500 numbers of saplings.	During the year 1530 number of saplings have been planted within lease area.	NIL.

6e	Cumulative no .of plants	As per approved document dated 05/05/2016, cumulatively 3500 number of plants has been proposed to plant during 2016-17 to 2018-19 within lease area.	Cumulatively 3947 number of plants has been planted within lease area from 2016-17 to 2018-19 within lease area.	NIL.
6f	Any other method of rehabilitation	Other than plantation, no specific proposal of any other method of rehabilitation	Plantation has been carried out as per proposal.	NIL.
6g	Cost incurred on watch and care during the year	No specific proposal on cost of watch and care during the year.	As reported, approximately 50 thousand.	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 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	No proposal of afforestation/ rehabilitation of waste land.	Not applicable as no proposal.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal of afforestation/ rehabilitation of waste land.	Not applicable as no proposal.	NIL.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Not applicable.	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 1.0 Ha has been proposed for bench plantation with 1500 numbers of saplings.	An area of 1.09 Ha has been planted with 1530 number of saplings	No issue related to PMCP compliance.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Crushing and screening has been proposed.	Entire ROM is being used after separating screen reject through crushing and screening.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	Mechanical.	NIL.

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7c	Different grade of mineral sorted out at mines.	>34% CaO <34% CaO	Below 34% CaO is being treated as waste.	NIL.
7d	Any beneficiation process at mines .	No proposal of any beneficiation at Mine site. Only crushing and screening has been proposed.	Crushing and screening has been observed.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire limestone above threshold value has been proposed to utilize.	Limestone is being utilized as per proposal.	No issues related to mineral conservation.

#### Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
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 324 tonnes has been generated during the year and entire quantity has been consumed 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 324 tonnes has been generated during the year and entire quantity has been consumed for plantation purpose.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal of separate dumping has been proposed for waste material i.e. Face Reject & Screen reject. No proposal of fines generation.	Separate dumping has been observed for Face Reject & Screen reject.	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 1.0 Ha of mine benches has been proposed to rehabilitate/a fforestation during the year 2018-19 within lease area by the way of plantation.	An area of 1.09 Ha has been rehabilitation by plantation on mined out benches.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	It was plan to plant 1500 numbers of saplings.	During the year 1530 number of saplings have been planted.	NIL.
8g	Survival rate	No specific proposal of survival rate	80%	As per AR 2018-19.
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 1530 number of sapling over an area of 1.0 Ha.	A total of 1530 number of plant has been planted over an area of 1.09 Ha.	Aesthetic beauty around the mine is maintained.

#### 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.	NIL.
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: 118.82 Ha, Dumps:25.79 Ha, Roads, Plants, Buildings, Township:18.58 Ha, Reclaimed/Rehabilitated:14.73 Ha, Other Plantation: 14.76 Ha.	The land use pattern furnished in the return appears to be correct.	NIL.
9d	Scrutiny of Annual return on afforestation	Within ML1530 Nos, Outside ML 1400 Nos	The land use pattern furnished in the return appears to be correct.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject quantity of 455884.00 Mt with 30% CaO grade has been furnished.	The furnished information annual return is related to the screen reject.	Violation of rule 45(7) of MCDR, issued vide letter dated 18/10/2019.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and graded stock quantity furnished is NIL.	Found to be in order.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive Use. Ex. Mine Price & Production cost is Rs. 348.50 per tonne	No sale of the mineral as it is a captive mine. The details of cost of production and Ex-mine price appear to be correct.	NIL.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 270686105.00	The information furnished appears to be correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	Drill, Excavator, Dumper, Tanker, Dozer, Grader.	The information furnished in respect of 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