

**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 : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Gahendra Singh, HOD(Mines) & Sh. Mohammad Siddik
Official with
Designation
- (iv) Date of Inspection : 09-JUN-22
- (v) Prev.inspection date : 06-SEP-21

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.
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 : Shri Bharat Gokharu, Full Time
Qualification : BE mining
Appointment/ : 15-FEB-21
Termination date

Geologist

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

Manager

Name : Shri Bharat Gokharu
Qualification : BE Mining
Appointment/ : 15-FEB-21
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
	:	MP review under 17(1) MCR 2016	15-DEC-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No specific proposal during the previous year 2020-21.	During the year 2020-21 total 30bore holes drilling having 4327m carried out.	Nil
1b	Exploration over lease area for geological axis 1 or 2	Duirng the year 2021-22 total 62 bore holes (6159m) proposed.	Duirng the year 2021-22 total 4 bore holes (550m) drilling carried out.	During the year 2021-22 exploration was proposed by drilling of 62 bore holes (6159.5m) but only 4 bore holes (550m) drilling has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 01.07.2022.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration agency & Expenditures- Not specified	Exploration agency-TKB (Tapan Kumar Bid Drilling Services Nagpur) Expenditures-Rs. 14.70 Lac	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified.	As per approved document dated 15/12/2020, total mineralised area of 315.42 hect has been explored under G1 level of exploration.	However exploration proposal given to prove mineral continuity depth wise as per norms of MEMC Rules 2015.
1e	Balance reserve as on 01/04/20	As per approved document dated 15/12/2020, the position of reserve and resource as on 31/10/2020 was 154.97 and 178.21 million tonnes.	Balance reserves as on 01.04.2022 147.5 million tons	Nil

1f	General remarks of inspecting officers on geology, exploration etc	During the year 2021-22 exploration was proposed by drilling of 62 bore holes (6159.5m) but only 4 bore holes (550m) drilling has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 01.07.2022.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 2745219 to 2746594 E 308227 to 309708	N 2745527 to 2746143 E 308390 to 309592	Within proposed limit.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches proposed in Mineral only	Benches proposed in Mineral only (Top soil intrusion available at somewhere)	Nil
2c	Stripping ratio or ore to OB ratio	2021-22: 1:0.40	2021-22: 1:0.30	cum:cum
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	2021-22: IB- 762000m3	2021-22: IB- 519815.6 m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Opencast method of the development has been proposed.	Development carried out through open cast method as proposed.	One pit has been developed for mineral production. Development has been carried out within proposed limit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	01	01	Nil
3b	Quantity of ROM mineral production proposed	2021-22: 7166427.5 T	2021-22: 5563506 T	Nil
3c	Recovery of sailable/usable mineral from ROM production	2021-22: 6350000 T	2021-22: 5184310 T	Nil
3d	Quantity of mineral reject generation	2021-22: 816428 T	2021-22: 379196 T	Screen Reject has been mentioned as mineral reject.
3e	Grade of mineral rejects generation and threshold value declared.	Screen Reject below 34 % CaO	Screen Reject: 28 to 30 % CaO.	NIL.
3f	Quantity of sub grade mineral generation.	No proposal.	Sub-grade has not been generated during the year.	Nil
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized. (Crushing and Screening).	Mechanized. (Crushing and Screening).	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of analysis or beneficiation study for sub-grade mineral.	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, Dumpers, Dozer, Grader.	Drill machine, Backhoe Hyd. Excavators, Dumpers, Dozer, Grader.	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.	Bench height have been maintained as per proposal.	Nil
3m	Total area covered under excavation/pits	149.33 hect end of the mining Plan Till march 2026.	122.06 Ha. (up to year 2021-22).	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2021-22: 1:0.40	2021-22: 1:0.30	cum:cum
3o	Total area put in use under different heads at the end of year	Total area put to use under different heads 207.058 hect.(At the end of RMP period i.e.20225-26, excluding plantation)	Total area put to use unde different heads 169.6 hect.(excluding plantation)	Nil
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 7831908 2018-19 :11782023 2019-20: 11782018 2020-21: 11782016 2021- 22:7166427.5	2017-18: 2734816 2018-19: 3776909 2019-20: 4621044 2020-21: 4537453 2021-22:5563506	figures in tonnes.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining has been proposed.	Opencast method of mining is being practiced.	Opencast mechanized mining method has been adopted, which is best suited method for the type of the deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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- 4a Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) No proposal topsoil stacking, direct use in plantation. OB/Waste dumping 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.
- 4b Location of topsoil, OB and mineral reject dumps No proposal of top soil generation. Inter Burden/face Reject Dump-1: E308094 to E308514, N 2745686 to N 2746106 Dump-4 (Screen Dump): E 308509 to E 309200 & N 2746587 N2746899 Dump-2: E308425 to E308618 & N2746254 to N2746042 Dumping has been carried out on proposed location. However, during the year 2021-22, Screen reject dumping has also been carried out between grid 308390E to 308600E & 2746360N to 2746500N which was not proposed in approved review of mining plan, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 01.07.2022.
- Waste/OB has been proposed to dump near boundary pillar C and P (two locations). Screen reject has been proposed to dump near existing belt conveyor.

4c	Number of dumps within lease area and outside of lease area	Inside ML : 04 nos. (3nos. Face reject, 1nos. Screen Reject) No proposal of dumping of waste outside of the lease area.	Inside ML : 05 nos. (3nos. Face reject, 2nos. Screen Reject) Old waste dumps observed outside of lease area.	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.	4 (3nos. Face reject, 1no. Screen Reject)	5 (3nos. Face reject, 2no. Screen Reject)	Nil
4f	Number of dead dumps.	No proposal.	Not applicable.	Nil
4g	Number of dumps established.	No proposal.	Not applicable.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, proposal of retaining wall and garland drain during the year given.	Yes, Garland Drain & Retaining wall observed at necessary places around the dumps.	Nil
4i	Length of Retaining wall or garland drain all along dumps	2021-22: Garland drain- 120m and retaining wall - 253m.	2021-22: Garland drain- 120m and retaining wall - 253m.	Nil
4j	Number of settling ponds	No proposal.	01	Nil
4k	Specific comments of inspecting officer on waste dump management			During the year 2021-22, Screen reject dumping has also been carried out between grid 308390E to 308600E & 2746360N to 2746500N which was not proposed in approved review of mining plan, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 01.07.2022.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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)	No proposal of top soil generation during RY.	No top soil has been generated during the RY.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal of fully reclamation and rehabilitation	Not applicable.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling.	No area is fully exhausted.	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 2021-22 has been submitted.	Nil
6b	Area available for rehabilitation (ha) .	1 hect.	1 hect.	Nil
6c	afforestation done (ha).	2021-22: 1 hect	2021-22: 1 hect.	Nil
6d	No. of saplings planted during the year	2021-22: 1500 nos.	2021-22: 1500 nos.	Nil

6e	Cumulative no .of plants	No specific proposal on cumulative number of plantation.	Within ML-63790 up to 31.03.2022.	Nil
6f	Any other method of rehabilitation	Other than plantation, no 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 proposal.	Approx. Rs. 12,50,000/-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal.	Not applicable.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal.	Not applicable.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No Proposal.	Not applicable.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal.	Not applicable.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal.	Not applicable.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1500 Nos (Proposal at waste dump)	1500 Nos (Actual at waste dump)	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 Hectare (at waste dump)	1.0 Hectare (at waste dump)	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 for monitoring of environment parameter has been given.	Environment monitoring is being carried out in core and buffer zone. 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 are satisfactory.

Mineral Conservation:

Sl.No.	Item	Proposals	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.	No grade wise sorting proposed.	Entire ROM is being used after separating screen reject through crushing and screening.	Nil
7c	Different grade of mineral sorted out at mines.	No grade wise sorting proposed.	Not applicable.	Nil
7d	Any beneficiation process at mines	No proposal.	No beneficiation process other than crushing and screening	Nil

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No issues observed related to mineral conservation.
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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.	Top soil generated during the RY and used for plantation.	Nil
8b	Concurrent use or storage of topsoil	It is proposed that generated top soil will be used for plantation purpose.	Top soil generated during the RY has been used for plantation.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed for face reject and screen reject.	Separate dumping observed for face and 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)	Plantation on Dump area.	Plantation carried out over dump area.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	A total of 1500 numbers of saplings proposed to plant during 2021-22.	A total of 1500 numbers of saplings have been planted during 2021-22.	Cummulative 62790 numbers of plants as on 31.03.2022.

8g	Survival rate	No proposal.	80%	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			The general aesthetic beauty is satisfactory in and around mine area.

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,2017 monthly and annual returns to be submitted.	Monthly and annual returns have been submitted on time.	On inspection date(09.06.2022) annaul return for the year 2021-22 was not due hence scrutiny of annual return 2020-21 has been carried out.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In AR 2020-21: Sh. Bharat Gokharu (Mining Engineer & Mines Manager) Sh. Mohammad Siddik (Geologist)	Found correct	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mine working 120.09 Ha Dumps 27.21 Ha Roads, Plants, Buildings, 18.58 Ha Green belt 31.35 Ha	Seems correct	AR 2020-21.
9d	Scrutiny of Annual return on afforestation	AR 2020-21: 1500 nos sapling reported.	Seems corrected.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	in AR 2020-21: 471227tonne (CaO<30 %)	Seems correct	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR 2020-21: ROM Stock- Nil	Seems correct	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR 2020-21: Ex. Mine Price-304.54 Rs/Tonne & Production cost Rs.304.54Rs/Tonne	Seems correct	Nil
9h	Scrutiny of Annual return on fixed assets	AR 2020-21: Rs. 316178561/-	Seems correct	Nil
9k	Scrutiny of Annual return on mining machineries	Details given in AR 2020-21.	Seems correct.	Nil

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)	01-JUL-22			

Date :**(D R GURJAR)**

Indian Bureau of Mines