

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT 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 : Deputy Controller Mines
- (iii) Accompanying mine : Shri Bhismadeb Sahoo, Agent & HOD(Mines)
Official with
Designation
- (iv) Date of Inspection : 15-OCT-24
- (v) Prev.inspection date : 09-OCT-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 : bhismadeo.sahoo@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 : Adityanagar, Pindwara,
Distt.- Sirohi (Rajasthan) -307031
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 : Shri Bhismadeb Sahoo
 UltraTech Nathdwara Cement
 Limited Adityanagar,
 Pindwara SIROHI RAJASTHAN
 Phone: 02971-235005
 FAX :

Mining Engineer

Name : Monal Rajpara, Full Time
 Qualification : Diploma in Mining & FCC(R)
 Appointment/ : 16-JUN-22
 Termination date

Geologist

Name : Manoj Dixit, Full Time
 Qualification : (M.Sc. Tech Applied Geology)
 Appointment/ : 13-JUN-22
 Termination date

Manager

Name : Monal Rajpara
 Qualification : Diploma in Mining & FCC(R)
 Appointment/ : 16-JUN-22
 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 backlog of previous year 2022-23.	Not applicable	Nil
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal during the year 2023-24.	None during the RY 2023-24.	Total lease area- 468.6875 hect., Mineralised area- 315.42 hect. & Non mineralised area- 153.2675 hect. Entire mineralised area has already been explored under G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal during the RY 2023-24.	None during the RY 2023-24.	Nil
1e	Balance reserve as on 01/04/20	The position of R & R as on 01.04.2023(as per approved Modification of RMP approved date 06.11.2023): 111: 141.5766 mt 211: 6.57 mt 331: 171.6465 mt	The position of R & R as on 01.04.2024 111: 135.8017 mt 211: 6.57 mt 331: 171.6465 mt	mt-Million Tonnes
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed related to geology & exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	During the RY 2023-24 mine development proposed between UTM grid E308396 to E309917 & N2745395 to N2747010.	During the RY 2023-24 mine development has been carried out between UTM grid E308398 to E309879 & N2745423 to N2746900.	Mine development within proposed lateral limit.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only mineral benches proposed having 10m height of each, no proposal of top soil & OB benches.	Only mineral benches was there having 10m height of each bench.	Nil
2c	Stripping ratio or ore to OB ratio	2023-24: 1: 0.27	2023-24: 1: 0.23	tonne:tonne
2d	Quantity of topsoil generation in m3	No top soil generation proposal.	No top soil generated during the reporting year.	Nil
2e	Quantity of overburden generation in m3	2023-24: 1022940.8 m3	2023-24: 551384.8 m3	Waste generated in form Interburden. Less waste generated with respect to proposal as ROM production is also less with respect to proposal.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mine development has been carried out within proposed lateral limit. However during the inspection new crusher along with surge bin installation work on progress withih lease area towards eastern side (hill slope) of the existing pit near road going to Thandiberi side which was not proposed in the approved modification of review of mining plan, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 12.11.2024.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 Pit	01 Pit	Nil

3b	Quantity of ROM mineral production proposed	2023-24: 9620515 T	2023-24: 5846958 T	During the year 2023-24 total 9620515 tonnes ROM production was proposed during the year, but only 5846958 tonnes ROM production carried out against this proposal which is around 60.77% of the proposal., Such low achievement in production has substantially changed pit profile effecting all subsequent year also, hence violation of Rule11(1) of MCDR issued vide letter dated 12.11.2024.
3c	Recovery of sailable/usable mineral from ROM production	2023-24: 8850874 T	2023-24: 5774840 T	Nil
3d	Quantity of mineral reject generation	2023-24: 769641T	2023-24: 72118 T	During the year 2023-24, total 769641T (which is 8% of total ROM quantity 9620515T) mineral reject generation was proposed whereas actual mineral reject generated 72118T(which is 1.23% of total ROM quantity 5846958T), it shows that no proper assessment of mineral reject generation has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 12.11.2024.
3e	Grade of mineral rejects generation and threshold value declared.	Less than 30% CaO	Less than 30% CaO	Nil

3f	Quantity of sub grade mineral generation.	No subgrade generation proposal during the RY 2023-24.	No subgrade generated during the RY.	Nil
3g	Grade of sub grade mineral generation	No subgrade generation proposal during the RY 2023-24.	Not generated.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted to remove screen reject from ROM.	As per proposal	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal during the RY 2023-24.	None during the RY.	Nil
3j	Provision of drilling and blasting in mineral benches	Yes provision of drilling & blasting was given.	Drilling & blasting has been carried out as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Drill machine, Backhoe Hyd. Excavators, Dumpers, Dozer, Grader, Water Tanker etc.	Drill machine, Backhoe Hyd. Excavators, Dumpers, Dozer, Grader, Water Tanker etc.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10m bench height was proposed.	10 m bench height maintained.	Nil
3m	Total area covered under excavation/pits	138.22 hect. up to year 2023-24.	135.72 hect. up to year 2023-24.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2023-24: 1: 0.27	2023-24: 1: 0.23	tonne:tonne
3o	Total area put in use under different heads at the end of year	Total area put to use proposed- 191.19 hect. up to year 2023-24.	Total area put to use- 186.53 hect. up to year 2023-24.	Nil

3p	Production of ROM mineral during the last five year period as applicable	2019-20: 11782018T 2020-21: 11782016T 2021-22: 7166427T 2022-23: 6902793T 2023-24: 9620515T 2024-25: 9620472T	2019-20: 4204927T 2020-21: 4537453T 2021-22: 5563507T 2022-23: 6063788T 2023-24: 5846958T 2024-25: 2921671T(up to Sept. 24)	Nil
3q	General remarks of inspecting officers on method of mining etc.			Opencast fully mechanised mining method adopted as per proposal 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 top soil dumping proposal. Proposal of separate dumping of IB & screen reject.	No top soilng dumping. Separate dumping of IB & screen reject.	Nil
4b	Location of topsoil, OB and mineral reject dumps	IB dimping proposal Dump 1&2: E 308093.46 to E308642.34 & N 2745695.04 to N2746314.48 Screen Reject Dump 4 E308651 to E308988 & N2746702 to N2746903, Screen Reject Dump-5 E 308454 to E308785 & N 2746349 to N2746514	IB Dump 1: E 308100 to E308332 & N 2746008 to 2746243 IB Dump 2: E 308412 to E308563 & N 2746052 to 2746243 Screen Reject Dump-5 E 308477 to E308760 N 2746364 to N2746494	During the RY 2023-24, proposal of merging of IB dump 1 & 2 was given but due to loacl issues not merged. No dumping carried out in Reject Dump No. 4 during the RY. However dumping during the RY has been carried out within proposed lateral limit.

4c	Number of dumps within lease area and outside of lease area	Inside ML: 05 nos. (3 Nos. Interburden, 2 Nos Screen Reject)	Inside ML: 05 nos. (3 Nos. Interburden, 2 Nos Screen Reject)	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL.	Outside of UPL.	Nil
4e	Number of active and alive dumps.	5 (3nos. IB dump & 2nos. Screen Reject dump)	5 (3nos. IB dump & 2nos. Screen Reject dump)	Nil
4f	Number of dead dumps.	No proposal	None	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 garland drain & retaining wall given during the RY.	Garland drain & retaining wall made during the RY.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Garland Drain-130m Retaining wall-30m	Garland Drain-130m Retaining wall-120m	Nil
4j	Number of settling ponds	No proposal	Not applicable	Nil
4k	Specific comments of inspecting officer on waste dump management			No 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.	No proposal of backfilling during the RY 2023-24.	No backfilling during the RY.	Nil
5b	Area under backfilling of mined out area	No proposal of backfilling during the RY.	None during the RY.	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation proposal during the RY.	No top soil generated during the RY.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal during the RY 2023-24.	Not applicable	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine working has not reach up to UPL depth hence area not matured for backfilling.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	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 annual report should be submitted before 1st July for previous financial year.	PMCP report for the year 2023-24 submitted on 28.06.2024.	Timely submitted.
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	Nil
6c	afforestation done (ha).	Year 2023-24: 1.0 hect. (over waste dump area)	Year 2023-24: 1.0 hect. (over waste dump area)	Nil
6d	No. of saplings planted during the year	1000 nos.	1000 nos.	Nil
6e	Cumulative no .of plants	Not specified	65790 nos.	up to year 2023-24.
6f	Any other method of rehabilitation	No proposal	Not applicable	Nil
6g	Cost incurred on watch and care during the year	Not specified	Rs. 11.25 lakhs	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 during the RY.	Not applicable	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not applicable	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	However rain water accumulated at the bottom bench of the pit.	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	No proposal during the RY 2023-24.	Not applicable	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable	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)	Environmental monitoring was proposed at core zone & buffer zone as per EC & CTO conditions.	Environmental monitoring is being carried out at core zone & buffer zone as per EC & CTO conditions and parameters are within permissible limit.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliances is satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	After separating screen reject from ROM, limestone is feed to captive cement plant.	After separating screen reject from ROM, limestone is feed to captive cement plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting however screen reject separated from ROM mineral through screening arrangements fillted with crusher.	No grade wise sorting however screen reject separated from ROM mineral through screening arrangements fillted with crusher.	Nil
7c	Different grade of mineral sorted out at mines.	No grade wsie sorting proposed.	Not applicable	Nil
7d	Any beneficiation process at mines	Crushing & screening proposed.	As per proposal	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation during the RY 2023-24.	No top soil generated during the RY, hence not applicable.	Nil
8b	Concurrent use or storage of topsoil	No top soil generation proposal.	Not applicable	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of IB(face reject) & screen reject proposed.	Separate dumping of IB(face reject) & Screen reject have been carried out as per proposal.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal given.	Not applicable	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal given during the RY.	None during the RY.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Duirng the reporting year 1000 nos. of sapling was proposed.	During the RY total 1000 nos. of sapling planted. Cummultaive plantation- 65790 nos.	Up to year 2023-24.
8g	Survival rate	80%	80%	AR 2023-24.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling was propsed.	Water sprinkling was observed during the inspection.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Asthetic beauty is satisfactory in and around mines area.

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 2017, annual return shall be submitted up to 30th June for previous financial year & monthly return shall be submitted before 10th for previous month.	Annual return 2023-24 & monthly returns submitted timely.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given in AR 2023-24: Sh. Monal Rajpara (Mining Engineer & Mines Manager) Sh. Manoj Dixit (Geologist)	Correct details furnished.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given in AR 2023-24: Mine working 135.720 Ha Dumps 32.23 Ha Roads, Plants, Buildings etc 18.58 Ha	Details seems corrected.	Nil
9d	Scrutiny of Annual return on afforestation	Details given in AR 2023-24: 1000 nos. of sapling having 80% survival rate. Total nos. of trees at the end of year- 65790 nos.	Deatils seems corrected.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR 2023-24: Screen Reject- 72118 tonnes (CaO<30%)	Deatisl seems corrected.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given in AR 2023-24: Cost of production & Ex Mine price Rs. 427.70	It is captive mine. Details seems corrected.	Nil

9h	Scrutiny of Annual return on fixed assets	Details given in AR 2023-24: Value of fixed assets reported: Rs. 14822646828.	Seems corrected	Nil
9k	Scrutiny of Annual return on mining machineries	In AR 2023-24 mine machineries details furnished.	Detail seems corrected.	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)	12-NOV-24			

Date :

(D R GURJAR)

Indian Bureau of Mines