

**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 : Shri Gajendra Singh Shekhawat, Mines Agent
Official with
Designation
- (iv) Date of Inspection : 11-JUN-22
- (v) Prev.inspection date : 02-NOV-20

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 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.
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

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 2020-21.	During the year 2020-21, 8 bore hole having 865m drilling has been carried out.	Nil
1b	Exploration over lease area for geological axis 1 or 2	During the year 2021-22, exploration proposed by way of 53 nos. of bore holes having 5008.64m.	During the year 2021-22, drilling of 21 nos. of bore holes having 2024m has been carried out.	During the year 2021-22 exploration was proposed by drilling of 53 bore holes (5008.64m) but only 21 bore holes (2024m) 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. 54 Lacs	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Out of total 256 hect. lease area, mineralised area is 180 hect. which has been explored under G1 level.	During the year 2021-22, drilling of 21 nos. of bore holes having 2024m has been carried out to prove depth continuity of mineral.	Out of total 256 hect. lease area, mineralised area is 180 hect. which has been explored under G1 level. However to prove depth continuity of mineral exploration proposed during the year 2021-22 as per norms of MEMC Rules 2015.
1e	Balance reserve as on 01/04/20	Not specified	Balance reserves as on 01.04.2022 108.63 Million tons	Nil

1f	General remarks of inspecting officers on geology, exploration etc	During the year 2021-22 exploration was proposed by drilling of 53 bore holes (5008.64m) but only 21 bore holes (2024m) 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	2021-22: N 2745297 to 2745862 & E 311819 to 312150	2021-22: N 2745446 to 2745802 & E 311825 to 312107	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	2021-22: 1:0.18	2021-22: 1:0.14	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: 75176 m3	2021-22: 29816.4 m3	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 as per proposal.

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	2021-22: 1065000T	2021-22: 522744T	Nil
3c	Recovery of sailable/usable mineral from ROM production	2021-22: 1065000T	2021-22: 522744T	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	As per approved RMP document dated 15/12/2020, area put under excavation at the end of the plan period(2025-26) will be 37.56 hect.	At the end of year 2021-22, area under mining pit is 25.38 hect.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2021-22: 1:0.18	2021-22: 1:0.14	cum:cum
3o	Total area put in use under different heads at the end of year	At the of RMP period(2025-26) Pits 37.56 Ha Roads, Plants, Buildings .45 Ha Waste Disposal 2.67 Ha	At the end of year 2021-22: Mine working 25.38 Ha Roads, Plants, Buildings 0.40 Ha Waste Disposal-1.24 Ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 769760 T 2018-19: 1165010 T 2019-20:1165010 T 2020-21:1165010 t 2021-22:1065000 T	2017-18: 157251 T 2018-19: 444963 T 2019-20:438285 T 2020-21:313406 T 2021-22:522743 T	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
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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 N 2745404 to 2745520 & E 312233 to 312364.	Top soil generated has been utilized for plantation purpose. Waste dumping has been carried out between grid N 2745406 to 2745487 & E 312235 to 312313 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	2021-22: Length of garland drain 52m & retaining wall 82m.	2021-22: Length of garland drain 52m & retaining wall 82m.	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.
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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 2021-22 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.

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 2021-22 has been submitted.	Nil

6b	Area available for rehabilitation (ha) .	0.67 hect.	0.67 hect.	Nil
6c	afforestation done (ha).	2021-22: 0.67 hect.	2021-22: 0.67 hect.	Nil
6d	No. of saplings planted during the year	2021-22: 750 nos.	2021-22: 750 nos.	Nil
6e	Cumulative no .of plants	Not specified	Total 24293 within ML area & 95837 Outside of ML area.	Up to year 2021-22.
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	2021-22: Approx. Rs.400000	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.	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making 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 saplings during the year.	During the year 750 number od saplings have been planted.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.67 hect. area	0.67 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.

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.

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.	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%	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 good 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, monthly and annual returns to be submitted.	Monthly and annual returns have been submitted timely.	On inspection date (11.06.2022) 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	Details in AR 2020-21: 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 2020-21: Mine working 25.38 Ha Roads, Plants, Buildings, Township 0.4Ha Waste Disposal-1.15 Ha Green belt 9.88 Ha	Seems to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	AR 2020-21: Within ML 750 nos saplings reported	seems corrected	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR 2020-21: Mineral reject generation: NIL	Seems correct	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR 2020-21: 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 2020-21: No sale of mineral only captive use of mineral. Ex. Mine Price & Production cost Rs. 374.13 per tonne.	Information furnished appears to be corrected.	Nil
9h	Scrutiny of Annual return on fixed assets	AR 2020-21 Rs. 41950575	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