INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT 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 Officer and ID No. : **G021) D R GURJAR**

(ii) Designation : Sr. Asst. Contrl. Mines

(iii) Accompaning mine Official with Designation : Shri Gajendra Singh Shekhawat, Agent Mines

(iv) Date of Inspection : 02-NOV-20

(v) Prev.inspection date : 07-OCT-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 : 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 correspondance : Ultratech Nathdwara Cement Ltd.
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 : 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/ Termination date : 13-APR-15

Geologist

Name : Pranjal Bhatnagar,Full Time
Qualification : M Sc (Tech)(Applied Geology)
Appointment/ Termination date : 01-MAY-06

Manager

Name : Rajendra Singh Mertia
Qualification : BE(Mining)
Appointment/ Termination date : 13-APR-15

6. Date of approval of Mining Plan/Scheme of Mining :

Existing rule 11 MCDR1988	10-AUG-98
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.	2019-20: 2 Nos of Bore holes 198 Mtrs. 2020-21: 8 Nos of Bore with 865 Mtrs	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Agency: CDA (Central Drilling Association), Expenditures: 2019-20 Rs 7.12 Lacs 2020-21 Rs.18.50 Lacs	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.	Balance reserves as on 01.04.2020 153.20 Million tons	Nil

1f	General remarks of inspecting officers on geology, exploration etc	The current inspection has been carried out for Review of Mining Plan also, hence lessee adivised to submit exploration proposal up to depth of mineral continuity as per MEMC Rule 2015 & time line of MCDR 2017 vide scrutiny comments of this office dated 13.11.2020.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 2745310 to 2745970 E 311780 to 312148	N 2745310 to 2745970 E 311780 to 312148	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	1: 0.17	Nil
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	82235 m3	29324.4 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 through open pit.

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 T	438285 T	Less production of limestone is due to fewer requirements from the plant.
3c	Recovery of sailable/usable mineral from ROM production	1165010 T	438285 T	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 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	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 01/04/2020, area put under excavation was 24.65 Ha.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.18	1:0.17	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 will be 42.66 Ha.	As on 01/04/2020, total area put under different heads at the end of the year was 40.14 Ha. including plantation.	Nil

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 N2745154 to 2745564 & E 312181 to 312364	Top soil generated has been utilized for plantation purpose. Waste dumping has been carried out between grid lines N 2745376 to 2745461 & E 312200 to 312350 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.	No specific proposal given during that year.	Garland drain found.	Nil
4i	Length of Retaining wall or garland drain all along dumps	No specific proposal given during that year.	20m retaining wall & 50m garland drain made during the year.	Nil
4j	Number of settling ponds	No proposal.	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue observed related to waste dump amangement.

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.	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 i.e. 2019-20 has been submitted.	Some discrepencies in PMCP report 2019-20 was observed hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 11.11.2020
6b	Area available for rehabilitation (ha) .	2019-20: 0.50 hect.	2019-20: 0.50 Ha.	Plantation carried out over an area 0.3 hect at mined out benches & 0.2 hect. over barren land.

6c	afforestation done (ha).	0.50 hect.	0.50 Ha.	Plantation carried out over an area 0.3 hect at mined out benches & 0.2 hect. over barren land.
6d	No. of saplings planted during the year	750 nos.	750 nos.	Nil
6e	Cumulative no .of plants	Not specified	Within ML-25953 OML-95837 NIL	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
6g	Cost incurred on watch and care during the year	No specific proposal	2019-20: 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)Afforestati 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 numbers of 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)	0.5 hect. area	0.5 hect. area	Plantation carried out over an area 0.3 hect at mined out benches & 0.2 hect. over barren land.
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.			Some discrepencies in PMCP report 2019-20 was observed hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 11.11.2020

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 specific 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 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.	None	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Plantation proposed 0.4 hect at mined out benches & 0.1 hect. over barren land.	Plantation carried out over an area 0.3 hect at mined out benches & 0.2 hect. over barren land.	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 year 750 number of saplings have been planted.	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 for reporting year.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sh. Rajendra Singh Mertia. (Mining Engineer and Manager) Sh. Pranjal Bhatnagar (Geologist)	Found ok	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mine working 24.65 Ha Roads, Plants, Buildings, Township 0.40 Ha Waste Disposal-0.810 Ha Green belt & reclaimed/ rehabilitated 10.68 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 200 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 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	No sale of mineral only captive use of mineral. Ex. Mine Price & Production cost Rs. 335.90 per tonne.	Information furnished appears to be corrected.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset furnished is Rs. 38264897/-	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

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 26(2)	10-NOV-20				

Date :

(**D R GURJAR**)

Indian Bureau of Mines