

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/PAL-46/LIM-4

Mine code : 38RAJ21011

- (i) Name of the Inspecting : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri. Deepak Kumar Sharma, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 28-APR-22
- (v) Prev.inspection date : 05-OCT-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MOHRAI DAGLA 29/99**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : PALI
Village : Mohrai Dagla
Taluka :
Post office :
Pin Code :
FAX No. : 09904201127
E-mail : kushal.jain@adityabirla.cor
Phone : 09904201127
- (f) Police Station : Jaitaran
- (g) First opening date : 20-JUL-15
- (h) Weekly day of rest : SUN
2. Address for : M/s Ultratech Cement Ltd.,Pali Cement Works
correspondance : Village: NimberaKhurd, Tehsil: Jaitaran
District- Pali, Rajasthan
3. (a) Lease Number : RAJ5427
- (b) Lease area : 689.76
- (c) Period of lease : 50
- (d) Date of Expiry : 18-MAR-65
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : ULTRA TECH CEMENT LTD.
 B WING, AHURA CENTRE, 2nd
 FLOOR, MAHAKALI CAVES ROAD,
 ANDHERI EAST, MUMBAI MUMBAI
 (SUBURBAN) MAHARASHTRA
 Phone:+911412378980/81
 FAX :+911412378980

Owner : K C Jhanwar
 A' Wing, 2nd Floor, Ahura
 Centre, Mahakali Caves
 Road, Andheri (E), Mumbai-
 400093. PALI RAJASTHAN
 Phone: 022-66917800
 FAX :

Agent : Kushal Chandra Jain
 Pali Cement Works Vill:
 Nimbera Khurd, Teh.:
 Jaitaran District- Pali,
 Rajasthan PALI RAJASTHAN
 Phone: 9904201127
 FAX :

Mining Engineer

Name : Shri Pradeep Dadhich, Full Time
 Qualification : B.E (Mining)
 Appointment/ : 25-JAN-22
 Termination date

Geologist

Name : Arvind Singh Rathore, Full Time
 Qualification : M.Sc. Geology
 Appointment/ : 21-AUG-21
 Termination date

Manager

Name : Deepak Kumar Sharma
 Qualification : B E
 Appointment/ : 17-JUL-15
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 19-MAR-13
 MP modif under 17(3) MCR 2016 23-AUG-18
 MP review under 17(1) MCR 2016 03-DEC-19
 MP modif under 17(3) MCR 2016 23-NOV-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during the previous year 2020-21.	None	Nil
1b	Exploration over lease area for geological axis 1 or 2	During the year 2021-22, exploration was proposed by 29 bore holes (4238m).	During the year 2021-22, no such exploration drilling has been carried out.	During the year 2021-22 exploration was proposed by drilling of 29 bore holes (4238m) but no such drilling has been carried out till inspection hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 30.06.2022.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration Agency- Synergy Geotech Pvt. Ltd, Nagpur Expenditures- Not specified	No exploration drilling has been carried out during the year 2021-22.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposal of exploration given to covert 51.90 hect G2 area into G1, 3.93 hect G3 area into G1 level and to prove depth continuity of mineral as per MEMC Rules 2015 norms.	No exploration drilling has been carried out during the year 2021-22.	Total Lease area- 689.76 hect., G1 Area- 413.33 hect, G2 Area-51.90 hect, G3 Area-3.93 hect., Non mineralised Area- 220.60 hect.
1e	Balance reserve as on 01/04/20	No specific proposal given	Balance reserves as on 01.04.2022: 191.1 million tonnes.	Nil

1f	General remarks of inspecting officers on geology, exploration etc	During the year 2021-22 exploration was proposed by drilling of 29 bore holes (4238m) but no such drilling has been carried out till inspection hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 30.06.2022.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block E Northwestern sideHill (Sec_32, Sec_33, Sec_34) and Eastern side (for development)Se c_33 & Sec_34	Within proposed limit.	Activities for setting up cement plant is in progress, only mines development activities are carried out due to lack of demand from plant.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Separate benches for waste and limestone	Nil
2c	Stripping ratio or ore to OB ratio	2021-22: 1:0.33 (tonne:cum)	2021-22: 1:9.66	Elevated stripping ratio due to less limestone production whereas high OB generation for development purpose.
2d	Quantity of topsoil generation in m3	No Proposals	Not generated.	Nil
2e	Quantity of overburden generation in m3	2021-22: 0.8 million cum	2021-22: 0.153668 million cum	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Activities for setting up cement plant is in progress, only mines development activities are carried out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	Nil
3b	Quantity of ROM mineral production proposed	2021-22: 2441745 tonnes	2021-22: 15910.45 tonnes.	Nil
3c	Recovery of sailable/usable mineral from ROM production	2021-22: 2.22 million tonnes.	Entire ROM stacked	No Recovery of Usable Mineral done due to lack of demand from plant as this is captive mine & plant is not commissioned till now.
3d	Quantity of mineral reject generation	2021-22: 0.22 million tonnes	No minearl reject generated during the year.	No Recovery of Usable Mineral done due to lack of demand from plant as this is captive mine & plant is not commissioned till now.
3e	Grade of mineral rejects generation and threshold value declared.	Below thershold value of limestone mineral.	No mineral reject generated during the year 2021-22.	Nil
3f	Quantity of sub grade mineral generation.	No proposal	No subgarde mineral generated during the year.	Nil
3g	Grade of sub grade mineral generation	No proposal	No subgarde mineral generated during the year.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for segregation of ROM	Nil	Segregation of usable mineral not done due to lack of demand from plant. Entire ROM Stacked.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	None	Nil
3j	Provision of drilling and blasting in mineral benches	Yes, drilling & balsting proposed.	No Drilling & Blasting carried out. Rock breaker used	Nil

3k	Provision of mining machineries in mineral benches	Exacavator, dumpers, drill machines & dozer etc.	Exacavator, dumpers, drill machines & dozer etc.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes as per proposal.	Nil
3m	Total area covered under excavation/pits	At the end of mining plan period i.e. up to year 2024-25, total area put to use under excavation /pits is 70.253 hect.	18.38 hect area under Pit up to 31.03.2022	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2021-22: 1:0.33 (tonne:cum)	2021-22: 1:0.33 (tonne:cum)	Elevated stripping ratio due to less limestone production whereas high OB generation for development purpose.
3o	Total area put in use under different heads at the end of year	Total area put to use under different heads at the end of plan period i.e. 2024-25 is 93.849 hect.	Total- 19.306 hect area put o use under different heads up to 31.03.2022.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 3282442 T, 2018-19: 152326 T, 2019-20: 638182 T 2020-21: 297000 T, 2021-22: 2441745 T	2017-18: 120 T, 2018-19: 2300 T, 2019-20: 20060 T, 2020-21: 4300 T, 2021-22:	Only mines development activities are carried out due to lack of demand from plant, as plant is not commissioned till date and mine is captive.
3q	General remarks of inspecting officers on method of mining etc.			Open cast mechanised mining method adopted, which is suitable to 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 top soil generation proposed. Proposal of OB/IB generation given.	As per proposal.	Nil
4b	Location of topsoil, OB and mineral reject dumps	No top soil generation proposal. WD1: N2902118, E410859 & N2901539, E410408 WD2: N2901528, E410400 & N2901357, 410200	Waste dumping has been carried out in WD1 within proposed limit.	Nil
4c	Number of dumps within lease area and outside of lease area	02	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.	02	01	Nil
4g	Number of dumps established.	No proposal	None	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes as per proposal	Nil
4i	Length of Retaining wall or garland drain all along dumps	During the year 2021-22 total 824m garland drain & 821m retaining wall proposed.	Garland drain made.	Nil
4j	Number of settling ponds	No Proposals	Not applicable	Nil

4k	Specific comments of inspecting officer on waste dump management			No issue observed related to waste dump as mine was operated on very small scale hence less quantity of waste was generated as compare to proposal.
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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.	None	Area is not matured for backfilling.
5b	Area under backfilling of mined out area	No proposal of backfilling during the year 2021-22.	None	Area is not matured for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation proposal during the last year.	No top soil generated.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	None	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling & reclamation proposal given as area is not 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).	PMCP Report shall be submit up to 1 July for the previous financial year.	PMCP Report for the year 2021-22 submitted on time.	Nil

6b	Area available for rehabilitation (ha) .	2021-22: 2.0 hect.	2021-22: 6.38 hect.	Nil
6c	afforestation done (ha).	2.0 hect.	6.38 hect.	Nil
6d	No. of saplings planted during the year	2000 nos.	10000 nos.	Nil
6e	Cumulative no .of plants	Not specified	37538 nos.	Nil
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Not specified	Rs. 29.18 Lakh	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	None	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	None	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	None	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	None	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	None	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2 hect.	6.38 hect.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2 hect.	6.38 hect.	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)	Monitoring proposed.	Regular monitoring is bening carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP Compliances is staisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Usable grade of limestone from ROM mineral will dispatched to captive cement plant.	No mineral was dispatched to plant, as plant is yet not commissioned.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	None	Segregation of usable / sub grade mineral not done due to lack of demand from plant. Entire ROM Stacked.
7c	Different grade of mineral sorted out at mines.	Usable limestone from ROM & Reject generation.	No Grade wise Mineral Sorting done	Nil

7d	Any beneficiation process at mines .	No proposal	None	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 top soil geneartion proposal	No top soil generated.	Nil
8b	Concurrent use or storage of topsoil	No top soil geneartion proposal during the year 2021-22.	No top soil generated.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, Proposal given for separate dumping of OB/ reject dump.	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.	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal during the last year.	None	Nil

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 nos. of sapling was proposed over an area 2 hect. during the year 2021-22.	10000 nos. sapling planted over an area 6.38 hect.	Nil
8g	Survival rate	Not specified	Approximately 91.6%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposal given	During the inspection water sprinkling was observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			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	Monthly retrun shall be submitted up to 10th day of month for the previous month. Annaul return shall be submitted up to 30 June for the previous financial year.	Monthly return submitted up to May 2022 Annual return submitted up to year 2020-21.	Timely submission of returns. On inspection date (28.04.2022) annual return 2021-22 was not due for submission 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 of Manager, Geologist & Mining Engineer given in AR 2020-21.	Found correct.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land Use pattern: Pit- 13.791 Ha Dump- 1.702Ha Road & Infra- 11.805 Ha Rain Water Harvest & Stock- 0.915 Ha.	Seems to be correct.	Nil

9d	Scrutiny of Annual return on afforestation	3000 nos. sapling reported	Seems corrected	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No Mineral Reject reported	No mineral reject reported.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock- 26779.855 T	Seems correct	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production Cost-Rs. 3983.22 per tonne	seems correct	Nil
9h	Scrutiny of Annual return on fixed assets	Rs. 1782468902	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 cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	30-JUN-22			

Date :

(D R GURJAR)

Indian Bureau of Mines