

**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 : **K018**) **Dr A Z Khan**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri Deepak Sharma, AGM, Yogeshwar Singh Rathore, Geol
Official with
Designation
- (iv) Date of Inspection : 04-JAN-24
- (v) Prev.inspection date : 11-MAR-23

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.co
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	29 Boreholes proposed during the previous year 2021-22	29 boreholes drilled during reporting year to complete the backlog	None
1b	Exploration over lease area for geological axis 1 or 2	During the year 2022-23, No exploration was proposed	29 boreholes drilled during reporting year to complete the backlog	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal	Exploration Agency- M/s Maheshwari Mining Pvt. Ltd. Expenditures- Rs.1,460,4100/-	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposal of exploration of 29 bore holes in year 2021-22 was 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.	29 boreholes drilled during reporting year 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.	None
1e	Balance reserve as on 01/04/20	No specific proposal given	Balance reserves & resource as on 01.04.2023: Reserve- 191,087,009 tonnes. Resource- 47,357,000.00 tonnes	None

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 . 29 boreholes drilled during reporting year 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.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	PIT-1 Sec 34- RL 406 - RL398 & RL 398 - RL390, Sec 35- RL390 - RL382,RL382 - RL374,RL374 - RL366,RL366 - RL358 RL358 - RL350, Sec 36- RL390 - RL382,RL382 - RL374, RL374 - RL366, RL366 - RL358, RL358 - RL350 Sec 37- RL390 - RL382, RL382 - RL374, RL374 - RL366, RL366 - RL358, RL358 - RL350 PIT-3 Sec 33- RL350 - RL342,RL342 - RL334, Sec 34- RL350 - RL342, RL342 - RL334	PIT-1 Sec 34-up to RL390, Sec 35- up to RL387.83, Sec 36- up to RL386.62 & Sec 37- Nil PIT-3 Worked up to RL 356.715	Development has not been carried out as per proposal for which violation of rule 11(1) of MCDR, 2017 has been pointed out.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No separate bench proposed for topsoil & OB only mineral bench proposed with 8m height.	Benches in mineral observed	None
2c	Stripping ratio or ore to OB ratio	1:0.21	1:0.54	Due to less limestone production whereas high OB generation for development purpose
2d	Quantity of topsoil generation in m3	No Proposals	No Top soil generation	Nil
2e	Quantity of overburden generation in m3	12,32,000 m3	253450.92 m3	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development has not been carried out as per proposal for which violation of rule 11(1) of MCDR, 2017 has been pointed 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	5.77 Million Tonne	1.1 Million Tonne	Nil
3c	Recovery of sailable/usable mineral from ROM production	91%	91%	Nil
3d	Quantity of mineral reject generation	0.52 Million Tonnes	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Below thershold value of limestone mineral.	No mineral reject generated during the year 2022-23.	Nil

3f	Quantity of sub grade mineral generation.	No Proposal	No subgrade mineral generated during the year.	Nil
3g	Grade of sub grade mineral generation	No proposal	No subgrade mineral generated during the year.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method proposed for segregation of ROM	Mechanised method adopted	Nil
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	DTH Drilling 115mm & Blasting Proposed	Drilling & Blasting carried out.	None
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	8m bench height proposed	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.,	25.126hect area under Pit up to 31.03.2023	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.21	1:0.54	Nil
3o	Total area put in use under different heads at the end of year	111.469 ha proposed up to 31.03.2025	Total- 43.61 hect area put o use under different heads up to 31.03.2023.	Nil

3p	Production of ROM mineral during the last five year period as applicable	2018-19 152326 tones 2019-20 664682 tones 2020-21 297000 tones 2021-22 2220000 tones 2022-23 5250000 tones	2018-19 2019-20 2020-21 2021-22 2022-23	2300 tones 20060 tones 4300 tones 15910.45 tones 1166378.80 tones	Nil
3q	General remarks of inspecting officers on method of mining etc.				Open cast mechanised method of mining adopted, which is suitable to the type of the 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 generation proposed. Proposal of OB/IB generation given	Waste dump has not been carried out as per approved proposal	Violation of rule 11(1) has been pointed out
4b	Location of topsoil, OB and mineral reject dumps	WD1 N2902118- N2901539, E410859- E410408 WD2 N2901528- N2901357, E410400- 410200	WD1 N2902118- N2901539, E410859- E410408 WD2 N2901528- N2901357, E410400- 410200	Waste dump has not been carried out as per approved proposal. Violation of rule 11(1) has been pointed out
4c	Number of dumps within lease area and outside of lease area	02 OB/IB dump within lease area	02 OB/IB & 02 Screen Reject	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	WD1 N2902118- N2901539, E410859- E410408 WD2 N2901528- N2901357, E410400- 410200	Waste Dump N2901745- N2901691, E410575- E410557 Waste Dump N2901825-N2901739 Screen reject N2901589- N2901573, E410513- E410394 Screen Reject N2901691-N2901622, E410641-E410619	Waste dump management has not been carried out as per approved proposal. Violation of rule 11(1) has been pointed out

4e	Number of active and alive dumps.	02 active Dumps	04 active dumps	Waste dump management has not been carried out as per approved proposal. Violation of rule 11(1) has been pointed out
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.	381 meter (WD2 towards SE) of Retaining wall proposed	NIL	Violation of rule 11(1) has been pointed out
4i	Length of Retaining wall or garland drain all along dumps	381 meter (WD2 towards SE) of Retaining wall proposed	Nil	Violation of rule 11(1) has been pointed out
4j	Number of settling ponds	No proposal	None	Nil
4k	Specific comments of inspecting officer on waste dump management			Waste dump management has not been carried out as per approved proposal. The waste is also not properly spread over dumps and at places terracing also not found. Violation of rule 11(1) of MCDR,2017 has been pointed out.

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 Nil backfilling during the year 2022-23	None
5b	Area under backfilling of mined out area	No proposal	of Nil backfilling during the year 2022-23	None

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of Top soil generation during the year 2022-23	No Top soil generated during the reporting year	None
5d	Total area fully reclaimed and rehabilitated	No proposal of reclamation & Rehabilitation during the year 2022-23	None	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling & reclamation proposal given during the year 2022-23 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 2022-23 submitted on time.	Nil
6b	Area available for rehabilitation (ha) .	2.0 ha	7.62 ha	Nil
6c	afforestation done (ha).	2.0 ha	7.62 ha	None
6d	No. of saplings planted during the year	2000 nos	10800 nos	Nil
6e	Cumulative no .of plants	No specific poposal	48338 nos	None
6f	Any other method of rehabilitation	No proposal	None	None
6g	Cost incurred on watch and care during the year	No specific proposal	34.45 lakhs	None

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	None	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	None	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2000 nos	10800 nos	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2.0 ha	7.62 ha	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	None

6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment Monitoring proposed	Regular Environment monitoring in core & buffer Zone is being carried out	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP Compliances is satisfactory.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Usable grade of limestone from ROM mineral will be dispatched	Usable grade of limestone from ROM mineral has been dispatched to captive cement plant	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Usable grade of limestone from ROM mineral has been sent to captive cement plant	None
7c	Different grade of mineral sorted out at mines.	Proposal for Usable limestone & Reject from ROM has been given	Usable grade of limestone from ROM mineral has been sent to captive cement plant.	There was no reject generation during the year 2022-23
7d	Any beneficiation process at mines	No proposal	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to mineral conservation

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No Top soil generation during the year 2022-23	None

8b	Concurrent use or storage of topsoil	No proposal	No Top soil generation during the year 2022-23	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, Proposal given for separate dumping of OB/reject dump	Waste dump management has not been carried out as per approved proposal	Violation of rule 11(1) of MCDR, 2017 has been pointed out
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	None	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	None	None
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 2022-23	10800 nos. sapling planted over an area 7.62 hect. with cumulative number of plantation is 48338	None
8g	Survival rate	No specific proposal	100%	None
8h	Water sprinkling on roads to control airborne dust	Proposal given	During inspection water sprinkling was observed	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is good

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly retrun shall be submitted up to 10th day of month for the previous month. Annual return shall be submitted up to 30 June for the previous financial year.	Monthly return submitted up to December 2023 Annual return submitted up to year 2022-23.	None
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.	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land Use pattern: Pit- 25.126Ha Dump- 1.522Ha Road & Infra- area, 14.150 Ha Rain Water Harvest & Stock- 0.7 Ha	Seems to be correct.	None
9d	Scrutiny of Annual return on afforestation	10800 nos. sapling reported	Seems to be correct.	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No Mineral Reject reported	Seems to be correct	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock- 0.00 T	Seems to be correct	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Production Cost-Rs. 245.62 per tonne	seems correct	None
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets of Rs. 2491482963 given	Seems to be correct	None

9k	Scrutiny of Annual return on mining machineries	Details are given	Seems correct	None
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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)	02-FEB-24			
Rule 48		02-FEB-24			

Date :

(Dr A Z Khan)

Indian Bureau of Mines