

**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 : **B014**) **CHANDRESH BOHRA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Deepak Kumar Sharma, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 11-MAR-23
- (v) Prev.inspection date : 28-APR-22

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	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	29 bore holes proposed	Nil	Exploration not completed due to covid19 pandemic. However, exploration completed in the year 2022-23.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	Existing status : G1 : 413.33 ha G2 : 51.90 ha G3 : 3.93 ha Total : 469.16 ha up to 294 mRL.
1e	Balance reserve as on 01/04/20	NA	Under category 111 : 191.107 mt	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The current status of geology and exploration may be considered as satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Block E North western side Hill (Sec_32, Sec_33, Sec_34 and Eastern side (for development) Sec_33 & Sec_34	Work carried out as proposed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench for OB is proposed	Separate bench made for OB.	

2c	Stripping ratio or ore to OB ratio	1:0.33	1:24.14	Elevated stripping ratio due to less limestone production where as high OB generation for development purpose.
2d	Quantity of topsoil generation in m3	No proposal	Not applicable	
2e	Quantity of overburden generation in m3	800000 cu.m.	153668 cu.m.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The ovreall status of development of pit w.r.t. type of deposit may be considered as satisfactory.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	There are two working pits.	
3b	Quantity of ROM mineral production proposed	22,20,000 MT	15910.45 MT.	Activities for setting up cement plant is in progress, only mines development activities are carried out due to lack of demand from plant.
3c	Recovery of sailable/usable mineral from ROM production	2220000MT	-	Entire ROM stacked.
3d	Quantity of mineral reject generation	2,20000 MT	Nil	Only mines development activities carried out.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	

3g	Grade of sub grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mehanised method proposed for segragation of ROM	Nil	Crusher installation is under process.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable	
3j	Provision of drilling and blasting in mineral benches	DTH Drilling 115mm & Blasting proposed	No drilling and blasting carried out.	

3k	Provision of mining machineries in mineral benches	1. Excavator (4.5 cu.m.)-5 Nos. 2. Dumper (50 Ton)- 11 Nos. 3. Drill Machine DTH 4.5" Dia- 02 Nos. 4. Loaders- 01 Nos. 5. Dozer (400HP)- 01 Nos. 6. Rock Breaker- 01 Nos. 7. Motor Grader- 01 No. 8. Soil compactor- 01 Nos. 9. Explosive Van- 02 Nos. 10. Maintenance Van- 02 Nos. 11. Fuel browser 6KL- 01 No. 12. Pickup Van-01 No. 13. Water Tanker-01 No. 14. Forklift 6 Ton-01 No. 15. Hydra 380kg- 01 No. 16. Hydra Crane-14 Ton- 01 No. 17. Mobile Blasting shelter- 02 Nos. 18-AFO Mixing Truck-01 No.	1-Excavator-02 Nos. 2-Dumper-02 Nos. 3-Tipper-02Nos. 4-Dozer- 01 No. 5-Water Tanker-01 No. 6-Crane-01 No 7-Rock Breaker-01 No. 8-Manitenance Van- 01 No. 9- Fork Likt-01 No. 10-Fuel Browser- 01No.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8m bench height proposed	8m bench height maintained.
3m	Total area covered under excavation/pits	70.253 ha proposed up to 31.03.2025	18.38 ha area under pit up to 31.03.2022.

3n	Ore to OB ratio for the pit/mine during the year.	1: 0.33	1:24.14	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	93.849 ha 31.03.2025. Plantation 2.0 ha	18.38 ha area under Pit proposed up to 31.03.2022 where as area under Plantation is 6.38 ha.	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 : 3282542 Tones 2018-19 : 152326 Tones 2019-20 : 664682 Tones 2020-21 : 297000 Tonnes 2021-22 : 2220000 Tones	2017-18 : 120 Tones 2018-19 : 2300 Tones 2019-20 : 20060 Tones 2020-21 : 4300 Tonnes 2021-22 : 15910.45 Tones	
3q	General remarks of inspecting officers on method of mining etc.	NA	The method of mining may be considered as satisfactory However the production or ROM mineral during the last five year period is not as per proposals.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed.	Separate dumping done on earmarked place.	
4b	Location of topsoil, OB and mineral reject dumps	WD1 N2902118,E4108 59 N2901539,E4104 08 WD2 N2901528,E4104 00 N2901357,E4102 00	WD1 N2901834,E410673 N2901722,E410548	
4c	Number of dumps within lease area and outside of lease area	OB Dump-01	OB Dump-01	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL
4e	Number of active and alive dumps.	01 Waste Dump	01 Waste Dump
4f	Number of dead dumps.	No proposal	Nil
4g	Number of dumps established.	No proposal	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Construction of parapet wall/ retaining wall 821m	Constructed parapet wall/ retaining wall.
4i	Length of Retaining wall or garland drain all along dumps	Construction of Garland drain in 824m along WD1.	Constructed Garland drain along WD1.
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	The current status of waste dump management may be considered as satisfactory.

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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	At present there is no scope of backfilling and reclamation thereof.
----	--	----	--

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).	Before 1st july 2022	Report submitted.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	2.0 ha	6.38 ha.	
6d	No. of saplings planted during the year	2000 Nos.	10000 Nos.	
6e	Cumulative no .of plants	23000 Nos.	37538 Nos.	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	NA	As per approved mining plan.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes,	Monitoring for various environmental parameters i.e. air, water ,noise is being done as proposed.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The current status of PMCP compliance and progressive closure operations may be considered as satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	Limestone - 2220000MT	Limestone - 15910.45 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	-	Crusher installation is under process.
7c	Different grade of mineral sorted out at mines.	No proposal	-	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The current status of mineral conservation may be considered as satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	01 waste dump	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed		

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Total 10000 plants planted during the year	Cummulative 37538 trees planted upto march 2022.
8g	Survival rate	.		
8h	Water sprinkling on roads to control airborne dust	Proposed	Yes, regular water sprinkling done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The current status of aesthetic beauty in and around mines area may be considered as satisfactory.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R.submitted up to March 2022 A.R. submitted up to 2021-22	M.R.submitted up to March 2022 A.R. submitted up to 2021-22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Shri Deepak Kumar Sharma Geologist Shri Arvind Singh Rathore Mining Engineer Shri Pradeep Dadhich	Manager Shri Deepak Kumar Sharma Geologist Shri Arvind Singh Rathore Mining Engineer Shri Pradeep Dadhich	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit 18.38 hect. Area under Dump 0.926 hect.	Found in order.	

9d	Scrutiny of Annual return on afforestation	Plantation 6.38 ha. No. of trees planted 10000	Found in order.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generated.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM 40951.455 MT	Found in order.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	EMP-Rs.301.55/ tonnes, Cost of Production-Rs. 3093.40 / tonnes	COP and EMP must be same in case of captive lease. It is informed to lessee to correct in future.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed assets is Rs. 2332712879	Found in order.
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 4.000 CUM 1 Non Electrical Opencast, BACK HOE 4.000 CUM 1 Non Electrical Opencast, DUMPER 50.000 TONNE 2 Non Electrical Opencast, TIPPER 20.000 CUM 2 Non Electrical Opencast, DOZER 324.000 HP 1 Non Electrical Opencast, WATER TANKER 28000.000 LITRE 1 Non Electrical Opencast.	Found in order.

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)	24-MAR-23			
MCDR17	Rule 40	24-MAR-23			

Date :

(CHANDRESH BOHRA)

Indian Bureau of Mines