

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JPR-115/LST-3

Mine code : 38RAJ13008

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Durgesh Manaria, Manager, Shri Parth Mishra
Official with
Designation
- (iv) Date of Inspection : 12-OCT-23
- (v) Prev.inspection date : 26-JUL-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MOHANPURA JODHPURA LST MI**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : JAIPUR
Village : MOHANPURA--JODHPURA
Taluka : KOTPUTLI
Post office : JODHPURA
Pin Code : 303108
FAX No. : 01421- 2512451
E-mail : utcl-kcw.mines@adityabirla
Phone : 01421- 2512451, 2516237
- (f) Police Station : KOTPUTLI
- (g) First opening date : 26-JAN-85
- (h) Weekly day of rest : SUN
2. Address for : Ultratech Cement Limited, Kotputli Unit
correspondance Vill. - Mohanpura, Teh. - Kotputli
Dist.- Jaipur- 303108
3. (a) Lease Number : RAJ1484
- (b) Lease area : 548.78
- (c) Period of lease : 50
- (d) Date of Expiry : 04-JUL-34
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : ULTRA TECH CEMENT LIMITED
 L & T HOUSE, BALLARD
 ESTATE, MUMBAI MUMBAI
 (SUBURBAN) MAHARASHTRA
 Phone:
 FAX :

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 : Bhupendra Khorpia
 Kotputli Cement Works
 Ultratech Cement Limited,
 Mohanpura, Kotputli JAIPUR
 RAJASTHAN
 Phone: 9489063411
 FAX :

Mining Engineer
 Name : Hitesh Patel, Full Time
 Qualification : BE Mining
 Appointment/ : 21-FEB-23
 Termination date

Mining Engineer
 Name : Sri Rahul Gopalia, Full Time
 Qualification : BE (Mining)
 Appointment/ : 04-OCT-19 21-FEB-23
 Termination date

Geologist
 Name : Parth sarthi Mishra, Full Time
 Qualification : M Sc (Geology)
 Appointment/ : 07-OCT-17
 Termination date

Manager
 Name : Rahul Gopaliya
 Qualification : B E (Mining)
 Appointment/ : 22-FEB-18 21-FEB-23
 Termination date

Manager
 Name : Durgesh Menaria
 Qualification : BE Mining
 Appointment/ : 25-MAR-23
 Termination date

Manager
 Name : Sri Balmukund Singh

Qualification : BE Mining
 Appointment/ : 21-FEB-23 25-MAR-23
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	29-SEP-03
Plan/Scheme of Mining		Modif.of approved Mining Plan	03-OCT-08
		Mining Scheme rule 12 MCDR1988	11-MAY-09
		Modif.approved Mining Scheme	26-JUL-13
		Mining Scheme rule 12 MCDR1988	03-NOV-14
		MP review under 17(1) MCR 2016	13-DEC-18
		MP modif under 17(3) MCR 2016	17-SEP-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 previous year 2021-22.	No exploration during the previous year 2021-22.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year (RY) 2022-23.	02 BHs with 200 mts of drilling was carried out during the reporting year (RY) 2022-23.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal.	Departmental team by hiring DTH drill machine. Expenditure: Rs.2.12 Lakh	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Not applicable.	Nil
1e	Balance reserve as on 01/04/20	Reserve and Resource as per MMP dated 17/09/2020: 171.16 and 23.94 million tons respectively. (as on 01/04/2020)	Reserve and Resource: 158.74 and 23.94 million tons respectively. (as on 01/04/2023)	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration.	02 BHs with 200 mts of drilling was carried out during the reporting year (RY).	The limestone formations of the mining lease (ML) area belong to the Ajabgarh Series of Delhi System. The formations are light to dark grey in color, fine to medium grain size crystals of calcite, had undergone metamorphism resulting into rocks of hard and massive in nature.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E700 to W500 N700 to S700	Development was carried out within approved limit during RY.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate removal of top soil, waste and mineral.	Top soil, OB/Waste and mineral removed separately.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.60 T/T	1 : 0.56 T/T	Nil
2d	Quantity of topsoil generation in m3	6000 CuM	4175 CuM	Top soil generated consumed concurrently in plantation.
2e	Quantity of overburden generation in m3	1430492 CuM or 3000000 Tons.	1290217 CuM or 2442658 Tons.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Opencast method of development has been proposed.	Opencast method of development is in practiced.	Development method proposed is suitable for the kind of deposit.

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	5000000 MT	4328608 MT	Less production due to low demand.
3c	Recovery of sailable/usable mineral from ROM production	5000000 MT	4328608 MT	Less production due to low demand.
3d	Quantity of mineral reject generation	No proposal.	Not applicable.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Not applicable.	Nil
3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable.	Nil

3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized (crusher and screen plant).	Mechanized (crusher and screen plant).	Entire ROM is usable after sizing.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Not applicable.	Nil
3j	Provision of drilling and blasting in mineral benches	Blast hole of 115 mm dia in Staggered pattern along with ANFO & Booster has been proposed.	Drilling and blasting is being carried out as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Hydraulic excavator, dumper, explosive van, drilling machine etc.	As per proposal.	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 10 mts	Deviation has been observed at places in height of the benches.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in height of the benches.
3m	Total area covered under excavation/pits	As per approved document 19/09/2020 an area of 82.46 hectare has been proposed at the end of the year 2023-24.	Area degraded under excavation/pits as on 31/03/2023 was 64.53 hectare.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.60 T/T	1 : 0.56 T/T	Nil

3o	Total area put in use under different heads at the end of year	As per approved document 19/09/2020 an area of 164.04 hectare has been proposed at the end of the year 2023-24.	Total area put in use under different heads as on 31/03/2023 was 125.29 hectare.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 4505728 2019-20: 5000000 2020-21: 4700000 2021-22: 5000000 2022-23: 5000000	2018-19: 4072587 2019-20: 4332774 2020-21: 3901281 2021-22: 4697303 2022-23: 4328608	All figures in metric tons.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of Mining has been proposed.	Opencast method of mining is being practiced.	Method of mining proposed is suitable for the type of 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 proposal Mineral reject generation. Proposal of separate dumping of waste has been envisaged. It is proposed that top soil encountered shall be used for plantation work.	Mineral Reject has not been generated. Waste generated during the year has been dumped separately. Top soil generated has been stacked separately and consumed for plantation work.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Dumping of the waste has been proposed over five locations at the end of the plan period. Location has been proposed NW and SW site of the pit area.	Dumping of the waste was carried out beyond the approved limit i.e. Eastern side of waste dump 1A, Northern side of waste dump 1-B and Eastern side of dump-3.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in waste dumping.

4c	Number of dumps within lease area and outside of lease area	All dumps proposed within ML.	All dumps are within ML.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside of UPL (Two dumps partially within UPL).	As per proposal.	Nil
4e	Number of active and alive dumps.	All dumps have been proposed to be active during RY.	All existing waste dumps are active (three Clay/sub soil dumps and three waste rock dumps).	Nil
4f	Number of dead dumps.	No proposal.	Not applicable.	Nil
4g	Number of dumps established.	No proposal of full stablization/r ehabilitation of any waste dump.	Partially an area of around 3.75 Hectare of waste dump 2 and 4 has been afforested.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain proposed.	Retaining and garland drain observed along the waste dump.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall- 500m Garland drain- 1000m	Retaining wall- 175 m Garland drain 1275 m	Violation of rule 11(1) of MCDR, 2017 issued for shortfall in retaining wall meters.
4j	Number of settling ponds	Dumping of the waste has been proposed over five locations at the end of the plan period. Location has been proposed NW and SW site of the pit area.	Dumping of the waste was carried out beyond the approved limit i.e. Eastern side of waste dump 1A, Northern side of waste dump 1-B and Eastern side of dump-3.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in waste dumping and retaining wall.
4k	Specific comments of inspecting officer on waste dump management			Nil

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal of part or full extraction of mineral.	Not applicable as no proposal.	Nil
5b	Area under backfilling of mined out area	No proposal.	No backfilling during reporting year.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil proposed to use for plantation work.	Top soil generated has been stacked separately and consumed for plantation work.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal.	Not Applicable	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling.	NIL.	No area 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 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2022-23 has been submitted.	Nil
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	Nil
6c	afforestation done (ha).	1.5 hectare.	1.5 hectare.	Nil
6d	No. of saplings planted during the year	4000 no.	4000 no.	Nil
6e	Cumulative no .of plants	Not Specified.	Planted- 100321 Survived - 91059	Nil
6f	Any other method of rehabilitation	No proposal.	Not applicable.	Nil

6g	Cost incurred on watch and care during the year	Rs.8,00,000/-	Rs.18,93,848/-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	Not applicable.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Not applicable.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal.	Not applicable.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Not applicable.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Not applicable.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	4000 no.	4000 no.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.5 hectare.	1.5 hectare.	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)	Regularly monitoring of environmental parameters.	Environment parameters are being monitoring as per norms.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 1.50 hectare with 4000 number of saplings has been proposed to plant.	An area of 1.50 hectare with 4000 number of saplings has been planted within lease area.	PMCP compliances are satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting is proposed.	Entire ROM fed to crusher.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for grade wise sorting.	Not applicable.	Nil
7c	Different grade of mineral sorted out at mines.	No proposal.	Not applicable.	Nil
7d	Any beneficiation process at mines .	Size reduction through mechanical means (crushing and screening).	As per proposal. .	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire ROM is proposed to use in cement plant after crushing and screening.	Beneficiation of ROM is not required as ROM is directly usable in cement plant after crushing and screening.	No issue related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil of 6000 CuM was proposed to generate.	Top soil of 4175 CuM was generated during RY.	Nil
8b	Concurrent use or storage of topsoil	Top soil proposed to use for plantation work.	Top soil generated has been stacked separately and consumed for plantation work.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste has been proposed. No proposal of generation of rejects and fines during RY.	Separate dumps have been maintained for clay and waste rock.	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.	Not applicable as no proposal.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Not applicable.	Cumulative- 3.75 ha of dump area rehabilitated by plantation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	An area of 1.50 hectare with 4000 number of saplings has been proposed to plant.	An area of 1.50 hectare with 4000 number of saplings has been planted within lease area.	Nil
8g	Survival rate	No proposal.	96.3% as per AR 2022-23.	Nil
8h	Water sprinkling on roads to control airborne dust	To control the air born dust particle, water sprinkling has been proposed.	Waster sprinkling has been observed during the mine inspection.	Nil

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	An area of 1.50 hectare with 4000 number of saplings has been proposed to plant.	An area of 1.50 hectare with 4000 number of saplings has been planted within lease area.	The general aesthetic beauty is satisfactory in and around mine area.
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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, 2017 monthly and annual returns to be submitted.	Annual and Monthly returns for RY have been submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Mr. Durgesh Menaria, Mining Engineer - Mr. Hitesh Patel , Geologist - Mr. Partha Sarathi Mishra	Manager, Mining Engineer and Geologist are appointed.	Scrutiny of AR 2022-23.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total of 125.29 hectare has been furnished under various heads.	The information of land use furnished appears in order.	Nil
9d	Scrutiny of Annual return on afforestation	4000 nos. within ML & 6717 nos. outside ML.	Found to be in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject: Nil	No mineral reject generation during RY.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and graded ore closing stock: NIL	No stock all excavated mineral consumed in captive cement plant during RY.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price and cost of production: Rs 344.08/tons.	Found to be in order	Nil

9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in ?) 298,51,89,173 /-	Appears to be in order.	Nil
9k	Scrutiny of Annual return on mining machineries	Dumper, Shovel, Back Hoe, rock drill, dozer, crusher etc.	Dumper, Shovel, Back Hoe, rock drill, dozer, crusher etc	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-DEC-23			

Date :

(DILIP JAIN)

Indian Bureau of Mines