

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **K010**) **Kotriwal B.L.**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri Manohar Lal Lahoti, Agent Mines
Official with
Designation
- (iv) Date of Inspection : 01-JUL-21
- (v) Prev.inspection date : 14-AUG-20

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 : **manoharlal.lahoti@adityabi**
- Phone : **01421- 2512451, 2516237**
- (f) **Police Station** : **KOTPUTLI**
- (g) **First opening date** : **26-JAN-85**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **Unit of Ultratech Cement, Kotputli**
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 SIROHI
RAJASTHAN
Phone:
FAX :

Agent : Manohar Lal Lahoti
Grasim Cement Limestone
Mine M/s Ultra Tech Cement
Ltd. Kotputli, Jaipur
JAIPUR RAJASTHAN
Phone: 01421-2512451, 2516237
FAX : 01421-2512451

Mining Engineer

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

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	29-SEP-03
		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	None	No backlog of previous year.
1b	Exploration over lease area for geological axis 1 or 2	7 boreholes (700m) upto 235mRL depth have been proposed during the year 2020-21	No exploration has been carried out against this proposal during the year 2020-21	During the year 2020-21, total 7 boreholes (700m) were proposed in approved Modification of the Mining Plan, but no exploration has been carried out against this proposal, hence violation of rule 11(1) of MCDR 2017 has been issued vide letter dated 26.07.2021.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	1.M/s Ercom Engineers Pvt. Ltd., Ercom House, C-1, C-Block, Community Centre, Narayan Vihar, New Delhi-110028. 2.M/s Holtech Consulting Pvt.Ltd., Holtec Centre, A Block, Sushant Lok, Gurgaon-122001, Haryana. 3.M/s Khanna Assocites, B-42/18, Ramesh Nagar, New Delhi-110015. 4. M/s Central Drilling Associates, Shubham Tower, 1st Floor, Block No 09, RPTS road, Near Ajni Square, Nagpur -440015, Maharashtra. Not specified expenditure proposal	None	Nil

1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	None	Entire potentially mineralized area 161ha. has already been explored upto G1 Level with borehole grid interval of (100m X 200m). However, 7 boreholes yet to be drilled upto depth of 235 mRL or direct evidence of mineral to proven mineralised area.
1e	Balance reserve as on 01/04/20	As per approved document dated 17.09.2020, the position of reserve on 01.04.2020 was 171.66 million tonnes.	Balance reserve as on 01/04/21, 167.758 million tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc	-	-	No exploration has been carried out against this proposal of 7 boreholes, hence violation of rule 11(1) of MCDR 2017 has been issued vide letter dated 26.07.2021.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E700 to W500 N500 to S700	E600 to W400 N300 to S700	Within proposed limit.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes, as per proposal	Nil
2c	Stripping ratio or ore to OB ratio	1:0.40	1 : 0.32	Nil

2d	Quantity of topsoil generation in m3	15300 m3 top soil was proposed during the year 2020-21.	1650 m3 top soil was generated during the year 2020-21.	Generated Top soil during the reporting year was seperated and consumed simultaneously in plantation.
2e	Quantity of overburden generation in m3	994638 m3	526313m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Top soil generated during the year consumed simultaneously in plantation.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	Nil
3b	Quantity of ROM mineral production proposed	4700000MT	3901281.29 MT	As reported in AR 2020-21
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	No proposal	Not applicable as no proposal.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable as no proposal.	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Not applicable as no proposal.	Nil
3g	Grade of sub grade mineral generation	No proposal	Not applicable as no proposal.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Not applicable as no proposal.	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable as no proposal.	Nil
3j	Provision of drilling and blasting in mineral benches	Yes	Yes ,as per proposal	Nil
3k	Provision of mining machineries in mineral benches	Drill machine,Excavator,Dumpers,Explosive Van etc.	Yes ,as per proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	10m height of each bench has been proposed.	Yes, it is suitable for method of mining and maintained as per proposal.	As reported in AR 2020-21.
3m	Total area covered under excavation/pits	63.53ha.	54.53ha.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.40	1 : 0.32	Nil
3o	Total area put in use under different heads at the end of year	It was proposed that total 164.04 ha area put in use under different heads at the end of the plan period i.e. 2023-24	At the end of the year 2020-21, total 150.74 ha used under different heads.	As reported in AR 2020-21.
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 4500374 MT, 2017-18: 4505634 MT, 2018-19: 4505728 MT, 2019-20: 5000000 MT, 2020-21: 4700000 MT.	2016-17: 4461925 MT, 2017-18: 4501639 MT, 2018-19: 4072587 MT, 2019-20: 4332774 MT, 2020-21: 3901281.29 MT.	Nil
3q	General remarks of inspecting officers on method of mining etc.	Opencast Mining Method was proposed	Mechanised mining method is being used along with HEMM as per proposal	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of Mineral reject. Proposal of separate dumping of waste has been given. It is proposed that top soil encountered shall be used for plantation purposes.	Mineral reject has not been generated during the reporting year. Waste generated during the reporting year has been dumped separately. Generated top soil used for plantation purposes.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Dump-1: N5-S3 and E2-W6, Dump-2: S5-S11 and W3-W6, Dump-3: S5-11 and E2-W3, Dump-4: S10-S15 and E1-W5, Dump-5: N9-N13 and E1-W3,	Dump-1: N5-S2 and W1-W5, Dump-2: S5-S10 and W3-W6, Dump-3: S5-09 and W0-W3, Dump-4: S11-S13 and W0-W2, Dump-5: N9-N11 and W0-W1,	Dump 1A and 1B are considered as one Dump.
4c	Number of dumps within lease area and outside of lease area	5nos dumps have been proposed within mining lease area.	5nos dumps have been made within mining lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside ultimate pit limit	outside ultimate pit limit	Nil
4e	Number of active and alive dumps.	5 nos.	5nos.	Nil
4f	Number of dead dumps.	No proposal	Not applicable as no proposal	Nil
4g	Number of dumps established.	No proposal.	Plantation has been done on part of Dump2 (matured side).	Nil

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall of 500m & Garland drain of 1000m have been proposed.	Yes, Garland drain has been made as per proposal but no retaining wall has been made as per proposal.	During the year 2020-21, retaining wall of 500m was proposed in approved Modification of the Mining Plan, but no retaining wall has been made against this proposal.Hence, Violation letter has been issued vide letter dated 26.07.2021.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall- 500m Garland drain- 1000m	Retaining wall- Nil Garland drain 1130 m	During the year 2020-21, retaining wall of 500m was proposed in approved Modification of the Mining Plan, but no retaining wall has been made against this proposal.Hence, Violation letter has been issued vide letter dated 26.07.2021.
4j	Number of settling ponds	01	01	Nil
4k	Specific comments of inspecting officer on waste dump management	-	-	No retaining wall has been made against this proposal of 500m retaining wall.Hence, Violation letter has been issued vide letter dated 26.07.2021

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	Not applicable as no proposal	Nil

5b	Area under backfilling of mined out area	No proposal	Not applicable as no proposal	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Plantation	As per proposal	Nil
5d	Total area fully reclaimed and rehabilitated	1.5ha area for rehabilitation of waste land within lease has been proposed	1.5 ha area has been rehabilitated.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling	No comment as no proposal of 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 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2020-21 has been submitted timely.	Nil
6b	Area available for rehabilitation (ha) .	1.5Ha	1.5Ha	Nil
6c	afforestation done (ha).	1.5Ha	1.5Ha	However plantation has not been carried out on proposed location hence violation of rule 11(1) of MCDR 2017 issued to the lessee.
6d	No. of saplings planted during the year	4000nos	4000nos	Nil
6e	Cumulative no .of plants	No specific proposal on cumulative number of plants.	Cumulatively plantation till the year 2020-21within lease area- 92321 number of saplings were planted.	Nil

6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	8Lakh	15.25lakh	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x 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 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	4000nos sapling over an area of 1.5ha. was proposed.	4000nos sapling over an area of 1.5ha. was planted.	However plantation has not been carried out on proposed location hence violation of rule 11(1) of MCDR 2017 issued to the lessee.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.5Ha	1.5Ha	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	4000nos sapling over an area of 1.5ha. has been planted.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Enviromental monitoring was proposed	Enviromental monitoring work was carried out in core zone and buffer zone.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	During the year 2020-21, Plantation has not been carried out on proposed location,hence violation has been issued vide letter dated 26.07.2021.

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	Total ROM feed to crusher	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	100% ROM is utilised	Nil
7d	Any beneficiation process at mines .	Mechanical screening &Crushing have been proposed.	Mechanical screening & Crushing has been done as per proposal.	Nil

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Entire ROM feed to crusher.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes, as per proposal	Nil
8b	Concurrent use or storage of topsoil	Utilisation of top soil for Plantation was proposed	Utilisation of top soil for Plantation was carried out as per proposal.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Separate dumps have been maintained as per rule i.e. for Clay, Waste rocks, etc. separately.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year2020-21,4000 nos. over an extant 1.5ha. was proposed	During the year2020-21,4000 nos. over an extant 1.5ha. was planted	Nil
8g	Survival rate	85% Survival rate of Plantation was proposed.	85% Survival rate of Plantation as per proposal	As reported in AR 2020-21.

8h	Water sprinkling on roads to control airborne dust	No specific proposal.	3 Water tankers has been deployed	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Aesthetic beauty in and around mines area is satisfactory.

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.	Monthly returns upto May, 2021 and Annual returns for the year 2020-21 have been submitted timely.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining Engineer, Geologist and Manager has been furnished.	Details found to be correct	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<p>(i) Already exploited & abandoned by opencast (O/C) mining - 0.0 ha.</p> <p>(ii) Covered under current (O/C)Workings- 54.53ha.</p> <p>(iii) Reclaimed/ Rehabilitated - 1.5 ha.</p> <p>(iv) Used for waste disposal -26.46 ha.</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings & roads - 15.80 ha.</p> <p>(vi) Other Purpose: Mineral Storage- 3.70 ha. Plantation work- 48.75 ha.</p> <p>(vii) Work done under progressive mine closure plan during the year - Plantation done over 1.5 ha. of land</p>	The area mentioned under different heads found to be in order.	Nil
9d	Scrutiny of Annual return on afforestation	4000 plantation within mine lease area having survival rate 85%.	Found to be in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No proposal	None	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Around .530 tonnes closing stock is reported at the end of the reporting year	Details seems to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-Mine Price is 328.25.	Found to be correct.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is 2439243545.	It seems to be corrected.	Nil
9k	Scrutiny of Annual return on mining machineries	13 Dumpers,03 Shovel(Hyd.),0 3Back Hoe,01Dozer,01 Crusher and 03 Rock Drill.	Found to be correct.	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)	26-JUL-21			

Date :

(Kotriwal B.L.)

Indian Bureau of Mines