

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/NGR-25/LST-6

Mine code : 38RAJ20005

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Gopi Chand Dhayal, AVP (Mines) and Sri Vivek Bha
Official with
Designation
- (iv) Date of Inspection : 21-DEC-23
- (v) Prev.inspection date : 14-JAN-23

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAJASHREE-1(ML1/91)**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : NAGAUUR
Village : DHANAPPA/BASNI
Taluka : MERTA
Post office : GOTAN
Pin Code : 342605
FAX No. : 0291-2431844
E-mail : krishan.singh@adityabirla.c
Phone : 0291-2431715
- (f) Police Station : GOTAN
- (g) First opening date : 08-JUL-87
- (h) Weekly day of rest : SUN
2. Address for : ULTRA TECH CEMENT LTD. Birla White, Village & PO
correspondance : Dhanappa, Tehsil- Merta, Police Station- Gotan,
District- Nagaur
3. (a) Lease Number : RAJ1490
- (b) Lease area : 400.7
- (c) Period of lease : 50
- (d) Date of Expiry : 28-OCT-36
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 : Alok Nigam
 Ultratech cement Ltd.,Unit-
 Birla White,PO-Kharia
 Khangar, District-Jodhpur
 JODHPUR RAJASTHAN
 Phone: 7722031570
 FAX : 7722031570

Mining Engineer
 Name : Daleep Sodha,Full Time
 Qualification : B E (Mining Engg)
 Appointment/ : 01-JAN-96 13-JUN-23
 Termination date

Mining Engineer
 Name : Sri Bhavani Singh,Full Time
 Qualification : B.E. Mining
 Appointment/ : 13-JUN-23
 Termination date

Geologist
 Name : Sri Amar Singh Raliya,Full Time
 Qualification : M.Sc. Geology
 Appointment/ : 15-DEC-23
 Termination date

Geologist
 Name : Sumit Kumar,Full Time
 Qualification : MSC Geology
 Appointment/ : 17-JUN-21 15-DEC-23
 Termination date

Geologist
 Name : Vivek R Bhardwaj,Full Time
 Qualification : M Sc (Geology)
 Appointment/ : 01-JAN-11 16-JUN-21
 Termination date

Manager
 Name : Daleep Sodha

Qualification : BE Mining
 Appointment/ : 25-MAR-19 13-JUN-23
 Termination date

Manager

Name : Sri Bhavani Singh
 Qualification : B. E. Mining
 Appointment/ : 13-JUN-23
 Termination date

Manager

Name : K P Singh
 Qualification : B E (Mining Engg)
 Appointment/ : 01-JAN-00 24-MAR-19
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	03-AUG-93
		Renewal under rule 22 MCR1960	29-JUL-94
		Mining Scheme rule 12 MCDR1988	18-AUG-99
		Mining Scheme rule 12 MCDR1988	18-FEB-00
		Existing rule 11 MCDR1988	16-MAR-01
		Mining Scheme rule 12 MCDR1988	08-NOV-04
		Mining Scheme rule 12 MCDR1988	26-AUG-10
		Renewal under rule 24 MCR1960	31-JAN-12
		MP review under 17(1) MCR 2016	13-APR-17
		MP review under 17(1) MCR 2016	10-DEC-21

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 previous year 2021-22.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during the reporting year (RY) 2022-23.	No exploration during reporting year (RY) 2022-23.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration.	Not applicable as no exploration during RY.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal.	Not applicable.	As per approved RMP dated 10/12/2021, entire potentially mineralized area explored under G1 level of exploration.
1e	Balance reserve as on 01/04/20	The position of reserve and resource as on 01/09/2021 was 11.40 and 1.23 million tons respectively.	The position of reserve and resource as on 01.04.2023 was 11.26 and 1.23 million tons respectively.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration during the reporting year 2022-23.	No exploration during RY.	The entire lease area is represented by limestone and dolomite belonging to Bilara Group of Marwar Super Group overlain by alluvium.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	The development has been proposed in extension of existing pits.	Development of pit-5 extended over non-approved area.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in development location.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate removal of top soil, waste and mineral.	Top soil generated used for plantation. Separate removal of OB and Mineral.	Top soil of 500 CuM was generated during RY 2022-23.
2c	Stripping ratio or ore to OB ratio	1:0.5 T/T	1:0.48 T/T	Nil
2d	Quantity of topsoil generation in m3	5750 CuM	500 CuM	Nil
2e	Quantity of overburden generation in m3	20878 CuM or 52195 tons	15780 CuM or 39450 tons	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method of mining.	Development is being carried out as per proposal.	The method of development proposed is suitable to the type of the deposit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 Nos.	4 Nos.	Nil
3b	Quantity of ROM mineral production proposed	100975 tons	8200 tons	Less production due to less demand.
3c	Recovery of sailable/usable mineral from ROM production	100975 tons	8200 tons	Less production due to less demand.
3d	Quantity of mineral reject generation	No proposal.	No mineral reject generation during the RY.	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 of Sub-grade generation.	No Sub-grade generation.	Nil
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	ROM dispatch.	ROM dispatch.	Nil
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	Drilling by hydraulic drill machine and Jack hammer. Drill hole dia of 32 mm with 1.0 m burden and 1.2 m spacing.	Drilling and blasting was carried as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination.	Shovel and dumper combination.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 2 to 5 mts was proposed.	Bench height maintained as per proposal.	Nil
3m	Total area covered under excavation/pits	16.32 hectare.	16.30 hectare.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.5 T/T	1:0.48 T/T	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 149850 2019-20: 149850 2020-21: 134883 2021-22: 134088 2022-23: 100975	2018-19: 66500 2019-20: 83000 2020-21: 70000 2021-22: 87000 2022-23: 82000	All figures in tons.

3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining was proposed.	Opencast method of mining is being practiced.	The method of mining proposed is best suitable to the type of deposit.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil proposed to utilize for plantation. Seprate dumping of waste and no proposal of MR generation.	Top soil generated utilized in plantation. No MR generation. Separate dumping of the waste.	Top soil of 500 cum was generated and utilized for plantation purpose.
4b	Location of topsoil, OB and mineral reject dumps	Waste dumping over OB dump-1.	Waste dumping observed over non approved area.	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	04 dumps.	04 dumps.	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.	03 dumps.	03 dumps.	Nil
4f	Number of dead dumps.	No proposal.	Not applicible.	Nil
4g	Number of dumps established.	01 dump.	01 dump.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain around dumps.	Retaining wall and garland drain observed at necessary places around the dumps.	Nil
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: 75 mts.	As per proposal.	Nil
4j	Number of settling ponds	No proposal.	Not applicible.	Nil
4k	Specific comments of inspecting officer on waste dump management	Waste dumping over OB dump-1.	Waste dumping observed over non approved area.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in waste dumping.

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.	An area of 0.08 hectare was proposed to backfill.	As per PMCP report an area of 0.08 hectare was backfilled during the RY.	Nil
5b	Area under backfilling of mined out area	0.08 hecare during RY.	0.08 hectare during the RY	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	5750 Cum of top soil was proposed to generate.	Top soil of 500 CuM was generated and concurrently used for plantation.	Nil
5d	Total area fully reclaimed and rehabilitated	No specific proposal.	A total of 3.95 hectare area is backfilled.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	An area of 0.08 hectare was proposed to backfill.	As per PMCP report an area of 0.08 hectare was backfilled during the RY.	Backfilling has been carried out.

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, PMCP report to be submitted for previous year by 1st July.	Annual PMCP report for the year 2022-23 has been submitted with annual return 2022-23.	Nil
6b	Area available for rehabilitation (ha) .	0.08 Hectare.	0.08 Hectare.	Nil
6c	afforestation done (ha).	0.4 hectare.	0.5 hectare.	Nil
6d	No. of saplings planted during the year	400 number of saplings.	400 number of saplings.	Nil
6e	Cumulative no .of plants	No specific proposal.	18112 as per PMCP report.	Nil

6f	Any other method of rehabilitation	No proposal.	Not applicable.	Nil
6g	Cost incurred on watch and care during the year	No proposal.	6.0 lacs.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.08 Hectare.	0.08 Hectare.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	9540 CuM	9540 CuM	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	200 number of saplings.	200 number of saplings.	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	400 number of saplings.	400 number of saplings.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.40 hectare.	0.50 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)	Monitoring of AAQ, Noise and water quality monitoring.	Environment parameters are being monitored as per proposal.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 0.40 hectare with 400 number of sapling was proposed to plant.	An area of 0.50 hectare with 400 number of sapling was planted during the RY.	The PMCP compliance was satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch.	ROM dispatch.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal.	Not applicable.	Nil
7c	Different grade of mineral sorted out at mines.	No proposal.	Not applicable.	Nil
7d	Any beneficiation process at mines	No proposal of beneficiation.	Not applicable.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No specific proposal.	Not applicable.	No issue related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	5750 Cum of top soil was proposed to generate.	Top soil of 500 CuM was generated and concurrently used for plantation.	Nil
8b	Concurrent use or storage of topsoil	Concurrent use of top soil.	As per proposal.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste.	Waste dumped separately.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste quantity of 9540 CuM was proposed to backfill.	Waste quantity of 9540 CuM was used for backfilling.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	An area of 0.08 hectare was proposed to backfill.	An area of 0.08 hectare was backfilled during the RY.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	An area of 0.40 hectare with 400 number of sapling was proposed to plant.	An area of 0.50 hectare with 400 number of sapling was planted during the RY.	Nil
8g	Survival rate	No specific proposal.	85% as per AR 2022-23.	Nil
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling in haul roads.	Achieved.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	An area of 0.40 hectare with 400 number of sapling was proposed to plant.	An area of 0.50 hectare with 400 number of sapling was planted during the RY.	The aesthetic beauty of mine needs to improve due to number of dumps and pits.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	Information of mining engineer and geologist was furnished.	Mining engineer and geologist appointed.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits: 16.30 ha Reclaimed: 3.95 ha Waste disposal: 7.24 ha Infrastructure : 7.45 ha	Area under pits is not furnished correctly.	Violation of rule 45(7) of MCDR, 2017 issued.
9d	Scrutiny of Annual return on afforestation	Within lease 600 nos and outside lease 200 nos.	The figures of the plantation furnished are in order.	The figure of total number of trees at the end of the year was furnished incorrectly. Hence violation of rule 45(7) of MCDR, 2017 issued.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generation: Nil	No mineral reject generation during the RY.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: Nil Graded ore stock: 2381.85 tons	Found in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production and Ex-mine price: 394.00 per tons.	Captive consumption.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset Rs. 33973922.00	Appears in order.	Nil
9k	Scrutiny of Annual return on mining machineries	Back hoe, dumper and air compressor etc.	Back hoe, dumper and air compressor 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)	02-FEB-24			
MCDR17	Rule 45(7)(a)	02-FEB-24			

Date :

(DILIP JAIN)

Indian Bureau of Mines