

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/NGR-12/LST-4

Mine code : 38RAJ20004

- (i) Name of the Inspecting : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri G. C. Dhayal, HOD Mines
Official with
Designation
- (iv) Date of Inspection : 24-MAR-23
- (v) Prev.inspection date : 15-JAN-23

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAJASHREE-II(58/84,ML3/95**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **NAGAUR**
- Village : **BASNI**
- Taluka : **MERTA**
- Post office : **GOTAN**
- Pin Code : **342605**
- FAX No. : **02920264040**
- E-mail : **gopi.dhayal@adityabirla.com**
- Phone : **9887480263**
- (f) **Police Station** : **Gotan**
- (g) **First opening date** : **28-NOV-97**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **Ultra tech Cement Ltd., Unit Birla White,
Village & PO- Basani, Police Station- Gotan,
Tehsil- Merta, 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 : Narendra Singh,Full Time
 Qualification : BE Mining
 Appointment/ : 12-DEC-22
 Termination date

Mining Engineer
 Name : Sh. K. P.Singh,Full Time
 Qualification : BE Mining
 Appointment/ : 29-DEC-99 05-JUL-22
 Termination date

Mining Engineer
 Name : Prem Swami,Full Time
 Qualification : BE Mining
 Appointment/ : 05-JUL-22 01-OCT-22
 Termination date

Mining Engineer
 Name : Bhawani Singh,Full Time
 Qualification : BE Mining
 Appointment/ : 01-OCT-22 12-DEC-22
 Termination date

Geologist
 Name : Vivek R Bhardwaj,Full Time
 Qualification : M Sc (Geology)
 Appointment/ : 17-JUN-21
 Termination date

Manager
 Name : Bhawani Singh

Qualification : BE Mining
 Appointment/ : 01-OCT-22 12-DEC-22
 Termination date

Manager

Name : Narendra Singh
 Qualification : BE Mining
 Appointment/ : 12-DEC-22
 Termination date

Manager

Name : K P Singh
 Qualification : B E (Mining Engg)
 Appointment/ : 01-JAN-00 05-JUL-22
 Termination date

Manager

Name : Prem Swami
 Qualification : BE(Mining)
 Appointment/ : 05-JUL-22 01-OCT-22
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under MCR 1960 08-JUN-16
 MP modif under 17(3) MCR 2016 31-JAN-19
 MP review under 17(1) MCR 2016 25-JAN-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	09 Exploratory BHs in previous year from 2019-20 to 2020-21.	No exploratory drilling during previous year 2020-21.	Backlog of 09 exploratory BHs.
1b	Exploration over lease area for geological axis 1 or 2	Total of 21 Boreholes with 920 mts of drilling was proposed including backlog of previous year.	Total of 21 Boreholes with 704 mts of drilling was drilled including backlog of previous year.	Violation of rule 11(1) of MCDR issued for shortfall in drilling meterage by the previous inspecting officer.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal on Exploration Agency & Expenditure.	Agency: SYNERGY GEOTECH PVT.LTD. NAGPUR. Expenditure: Around Rs 24.54 Lakh	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved document dated 25/01/2021 entire mineralised area of 269.70 hectare explored under G1 level.	Entire mineralized area covered under G1.	Nil
1e	Balance reserve as on 01/04/20	Reserve: 28.308 Resource: 7.472 (as on 01/12/2020)	Reserve: 27.72 Resource: 7.472 (as on 01/04/2022)	All figures in million tons. Depletion of 0.58 from Dec-20 to Mar-22)
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed related to geology & exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development has been proposed in the pits namely NW-2 I, NW-2 II, NW-2 III, NW-3, SE-7, SE-5, SE-6, SE-2, SE-2 II, SE-3 and SE-4.	Development has been carried out in proposed pits. Besides above, development has also observed on non-approved area.	Violation of Rule 11(1) of MCDR 2017 issued by the previous inspecting officer vide letter dated 01.06.2022. The current inspection has been carried out for Modification of RMP which is submitted for change in mine development location along with some other reasons.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil generation. Separate benches in OB and Mineral.	No top soil generation. Separate benches in OB and Mineral.	However benches in overburden were not kept sufficiently in advance so that their workings do not interfere with the working of ore or minerals, hence violation of Rule 13(2) of MCDR 2017 issued vide letter dated 24.04.2023.
2c	Stripping ratio or ore to OB ratio	1:0.19 CuM/CuM	1:0.57 CuM/CuM	Violation of rule 11(1) of MCDR, 2017 issued by the previous inspecting officer vide letter dated 01.06.2022, for variation in stripping ratio.
2d	Quantity of topsoil generation in m3	No proposal.	No top soil generated in the RY 2021-22.	Nil
2e	Quantity of overburden generation in m3	Year 2021-22: 107568 cum	Year 2021-22: 100400 cum	Nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	However benches in overburden were not kept sufficiently in advance so that their workings do not interfere with the working of ore or minerals, hence violation of Rule 13(2) of MCDR 2017 issued vide letter dated 24.04.2023.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	11 Nos pits namely NW-2 I, NW -2 II, NW-2III, NW-3, SE-7, SE-5, SE-6, SE-2, SE-2 II, SE-3 and SE-4.	11 Nos pits namely NW-2 I, NW -2 II, NW-2III, NW-3, SE-7, SE-5, SE-6, SE-2, SE-2 II, SE-3 and SE-4.	Non approved area has also been developed. Violation of rule 11(1) od MCDR, issued by the previous inspecting officer vide letter dated 01.06.2022.
3b	Quantity of ROM mineral production proposed	2021-22: 550013 T	2021-22: 438000 T	Nil
3c	Recovery of sailable/usable mineral from ROM production	467512 tons	438000.00 tons	Less production in account of Covid - 19 pandemic.
3d	Quantity of mineral reject generation	5% of ROM.	No mineral reject generation reported during RY.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Between CaO<48% and CaO>34%	Not applicable as no MR generation during the year.	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	Sizing and screening by mechanized method.	Sizing and screening by mechanized method.	NIL.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of analysis or beneficiation study for sub-grade mineral.	Not applicable as no proposal.	NIL.
3j	Provision of drilling and blasting in mineral benches	Yes, Jack Hammer drilling and blasting.	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	Height of the benches have been proposed to 6 mts.	Height of the benches has been observed as per proposal.	However benches in overburden were not kept sufficiently in advance so that their workings do not interfere with the working of ore or minerals, hence violation of Rule 13(2) of MCDR 2017 issued vide letter dated 24.04.2023.
3m	Total area covered under excavation/pits	91.69 hectare at the end of 2025-26.	77.11 Hectare as on 01.04.2022.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.19 CuM/CuM	1:0.57 CuM/CuM	Violation of rule 11(1) of MCDR, 2017 issued by the previous inspecting officer vide letter dated 01.06.2022, for variation in stripping ratio.
3o	Total area put in use under different heads at the end of year	130 ha. At the end of 2025-26	113.51 as on 01.04.2022	Nil
3p	Production of ROM mineral during the last five year period as applicable	2017-18:700220 2018-19:750649 2019- 20:1119452 2020- 21:1181330 2021-22:550013 2022-23:600003	2017-18: 440000 2018-19: 439000 2019-20: 380000 2020-21: 363000 2021-22: 438000 2022-23: 436000(up to Feb 2023)	All figures in tonnes.

3q General remarks of inspecting officers on method of mining etc. Method of mining is suitable to 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 of top soil generation. Separate dumping of waste and MR.	No top soil generation. Dumping of waste as per proposal.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	Proposal of waste dumping has been given on existing dump namely WD-4, WD-7, WD-8.	Dumping of waste as per proposal.	Dumping of waste as per proposal.
4c	Number of dumps within lease area and outside of lease area	09	09	Within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All dumps are within UPL except WD-4, WD-07 and partially WD-3.	All dumps are within UPL except WD-4, WD-07 and partially WD-3.	Nil
4e	Number of active and alive dumps.	03 (WD-4, WD-7, WD-8)	03 (WD-4, WD-7, WD-8)	NIL.
4f	Number of dead dumps.	04 (WD-2, WD-5, WD-6, WD-9).	04 (WD-2, WD-5, WD-6, WD-9).	NIL.
4g	Number of dumps established.	02 (WD-1 & WD-3)	02 (WD-1 & WD-3)	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain proposal given.	Observed at necessary places.	NIL.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: 55 mtr and Garland Drain: 49mtr along waste dump WD-7	Retaining wall and garland drain has been made.	NIL.
4j	Number of settling ponds	No proposal.	Not applicable.	NIL.

4k	Specific comments of inspecting officer on waste dump management	No issue observed related to waste dumping.
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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.	Backfilling after full extraction of mineral.	Backfilling carried out after full extraction.	NIL.
5b	Area under backfilling of mined out area	A total of 0.351 hectare area of pits namely NW-2, SE-7, SE-5, SE-3 and SE-2 has been proposed.	A total of 0.35 hectare area has been backfilled.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Not applicable.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation	Not applicable.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	.		Backfilling after full extraction of mineral.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 2021-22 submitted.	Timely submission.
6b	Area available for rehabilitation (ha) .	0.35 hectare area proposed for backfilling out of available 3.189 hectare.	A total of 0.35 hectare area backfilled.	NIL.
6c	afforestation done (ha).	4.20 hectare area.	5.0 hectare area.	Nil
6d	No. of saplings planted during the year	2100 saplings.	4000 saplings.	
6e	Cumulative no .of plants	No specific proposal on cumulative number of plantation.	Cumulatively 48561 numbers of plants within and outside lease area.	Nil
6f	Any other method of rehabilitation	Other than plantation, no proposal of any other method of rehabilitation	Plantation has been carried out as per proposal.	NIL.
6g	Cost incurred on watch and care during the year	Not specified.	N/A	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.351 hectare.	0.35 hectare.	NIL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal of afforestation on backfilled area.	Not applicable.	NIL.

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal of afforestation on backfilled area.	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 any other specific proposal.	Not applicable.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2100 saplings.	4000 saplings.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	4.20 hectare area.	5.0 hectare area.	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)	Provision for monitoring of environment parameter has been given.	Environment monitoring is being carried out in core and buffer zone.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 4.20 hectare has been proposed for plantation with 2100 numbers of saplings.	An area of 5.0 hectare has been planted with 4000 number of saplings.	PMCP compliances are satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Mineral dispatch after crushing and screening.	As per proposal.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting. Only crushing and screening.	As per proposal.	NIL.
7c	Different grade of mineral sorted out at mines.	Waste: CaO<34% and screen reject: Between CaO<48% and CaO>34%	As per proposal.	NIL.
7d	Any beneficiation process at mines	No proposal.	No beneficiation process. Only crushing and screening	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issues related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation during RY.	Top soil has not been generated during RY.	NIL.
8b	Concurrent use or storage of topsoil	No proposal of top soil generation during RY.	Not applicable as no top soil has been generated during RY.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping for OB/waste and MR.	OB/waste has been dumped separately. No MR generation during the RY.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste/OB has been proposed to backfill in mine out area of 0.351 hectare.	Backfilling has been carried out over 0.35 hectare area during RY.	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling of mine out pit area.	Backfilling has been carried out.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2100 saplings.	4000 saplings.	NIL.
8g	Survival rate	No proposal.	80 %	Nil
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling proposed.	Water Sprinkling obserevd.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty of mine lease 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, monthly and annual returns to be submitted.	Monthly returns & AR for RY have been submitted.	Timely submsission of returns.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details of Mining Engineer, Geologist & Manager furnished.	Correct details given	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits area-77.10 ha, Reclaimed area-0.35ha, Dump area-25.29 ha etc.	Seems corrected	Nil
9d	Scrutiny of Annual return on afforestation	4000 in lease and 200 outside lease	Found to be correct.	Nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No minearl reject reported.	Seems corrected.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock limestone 15175.24t	Seems corrected	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex . Mine price Rs. 451.00 per ton	Seems corrected.	Nil
9h	Scrutiny of Annual return on fixed assets	Rs. 89994518/-	Seems corrected	Nil
9k	Scrutiny of Annual return on mining machineries	Details given	Seems corrected.	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 13(2)	24-APR-23			

Date :

(D R GURJAR)

Indian Bureau of Mines