

**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 : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. K.P. Singh, AVP(Mines)
Official with
Designation
- (iv) Date of Inspection : 24-OCT-21
- (v) Prev.inspection date : 10-DEC-20

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 correspondance** : ULTRA TECH CEMENT LTD. Birla White, Village & PO
Dhanappa, Tehsil- Merta, Police Station- Gotan,
District- Nagaur
3. (a) **Lease Number** : RAJ1490
- (b) **Lease area** : 400.74
- (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
 Termination date

Geologist

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

Geologist

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

Manager

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

Manager

Name : Daleep Sodha
 Qualification : BE Mining
 Appointment/ : 25-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

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 2018-19.	Not applicable as no proposal.	As per approved document dated 13/04 2017.
1b	Exploration over lease area for geological axis 1 or 2	During the year 2020-21 total bore holes having 85m proposed.	As reported during the inspection that drilling of 5 bore holes having 85m has been carried out.	(1) Notice of sinking of bore holes in Form-I has not been submitted in respect of exploration drilling proposed during the year 2020-21, hence violation of Rule 47 of MCDR 2017 issued issued vide letter 03.11.2021. (2)Records of each bore hole in Form-J in respect of bore holes which were proposed during the year 2020-21 have not been maintained., hence violation of Rule 48 of MCDR 2017 issued vide letter 03.11.2021.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified.	Agency- M/s Synergy Geotech Pvt. Ltd., Nagpur Expenditures-No details	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such proposal given, proposal given of 5 bore holes during the year 2020-21.	As reported 5 bore drilling has been carried out.	Entire mineralised area has been explored under G1 level.
1e	Balance reserve as on 01/04/20	No specific proposal given.	Balance resreave as on 01.04.2021: 9.5989 Million tonnes.	Nil

1f	General remarks of inspecting officers on geology, exploration etc	(1) Notice of sinking of bore holes in Form-I has not been submitted in respect of exploration drilling proposed during the year 2020-21, hence violation of Rule 47 of MCDR 2017 issued issued vide letter 03.11.2021. (2)Records of each bore hole in Form-J in respect of bore holes which were proposed during the year 2020-21 have not been maintained., hence violation of Rule 48 of MCDR 2017 issued vide letter 03.11.2021.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-1: 55 S-237 S & 495W-650W Pit-3: 08 N-75 N & 815 W- 905 W Pit-4: 90 S-30 N & 162W-300W Pit-5: 1040S-1100 S & 1970 W-2107W	Development has been carried within approved limit during reporting year.	However bench height & width have not been maintained as per approved proposal, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 03.11.2021.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed.	Separate benches & mineral. in OB	Nil
2c	Stripping ratio or ore to OB ratio	1:1.098	1: 1.095	Nil
2d	Quantity of topsoil generation in m3	9133 M3	700 M3	Nil

2e	Quantity of overburden generation in m3	56676 m3	34066 m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Bench height & width have not been maintained as per approved proposal, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 03.11.2021.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	4 (Pit-1,3,4,5)	4 (Pit-1,3,4,5)	Nil
3b	Quantity of ROM mineral production proposed	2020-21: 149870 tonnes	2020-21: 70000 tonnes	Nil
3c	Recovery of sailable/usable mineral from ROM production	2020-21: 134883 tonnes	2020-21: 70000 tonnes	Nil
3d	Quantity of mineral reject generation	2020-21: 14987 tonnes.	No mineral reject generated during the year.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Cao<34%	No mineral reject generated during the year.	Nil
3f	Quantity of sub grade mineral generation.	No subgrade generation proposal.	No subgrade generated during the year.	Nil
3g	Grade of sub grade mineral generation	No subgrade mineral generation proposal	No subgrade generated during the year.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	None	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	None during the year.	Nil
3j	Provision of drilling and blasting in mineral benches	Yes proposal given	As per proposal	Nil
3k	Provision of mining machineries in mineral benches	Dumper & excavator combination	As per proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Bench height & width have not been maintained as per approved proposal	Violation of Rule 11(1) of MCDR 2017 issued vide letter dated 03.11.2021.
3m	Total area covered under excavation/pits	15.41 ha (up to end of 2021-22)	14.71 ha as on 01.04.2021	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.098	1:1.095	Nil
3o	Total area put in use under different heads at the end of year	24.79 ha. (up to end of 2021-22)	23.71 (as on 01/04/2021)	Nil
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 49000 T 2017-18: 149275 T 2018-19: 149850 T 2019-20: 149850 T 2020-21: 149870 T	2016-17: 49000 T 2017-18: 66050 T 2018-19: 66500 T 2019-20: 83000 T 2020-21: 70000 T	Nil
3q	General remarks of inspecting officers on method of mining etc.			Opencast method of the mining has been proposed & Opencast method of mining has been practiced. Due to near surface deposition of mineral opencast method is suitable.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate disposal of top soil, OB and Reject has been envisaged.	Top soil spreads over backfilled area. No mineral reject generation. OB/IB disposed as per proposal.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Top soil: Spreading over backfilled area, Waste generated from pit 1 and 4 proposed to backfilled in mine out area of pit 1. Waste generated from pit 5 has been proposed to dump near Pit.	Top soil generated has been spread over backfilled area and disposal of OB has been observed as per proposal.	Nil
4c	Number of dumps within lease area and outside of lease area	04 (within lease area)	04 (within lease area)	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	Outside of UPL	Nil
4e	Number of active and alive dumps.	1	1	Nil
4f	Number of dead dumps.	No proposal	03	Nil
4g	Number of dumps established.	No proposal	01	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Garland drain was there.	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal	None	Nil
4j	Number of settling ponds	No proposal	01	Nil
4k	Specific comments of inspecting officer on waste dump management			No specific issue observed related to waste dump management.

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.	After full extraction of mineral.	As per proposal.	Nil.
5b	Area under backfilling of mined out area	0.40Ha	0.40 Ha	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Spreading over backfilled area for plantation	Top soil spreads over backfilled area for plantation purpose.	Nil
5d	Total area fully reclaimed and rehabilitated	No such proposal for the reporting year	None	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling after full extraction has been proposed & 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 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report of the year 2020-21 has been submitted.	Nil
6b	Area available for rehabilitation (ha) .	1.5 hect.	1.5 hect.	Nil
6c	afforestation done (ha).	1.5 hect.	1.5 hect.	Nil
6d	No. of saplings planted during the year	600 Nos.	650 Nos.	Nil
6e	Cumulative no .of plants	Not specified	16912 sapling	Nil
6f	Any other method of rehabilitation	No proposal	None	Nil

6g	Cost incurred on watch and care during the year	Rs.45000/	Rs.360000/-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	0.4 hect	0.4 hect.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.4 hect.	0.4 hect.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	200 nos.	2000 nos.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No sucpr proposal	None	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	200 nos.	250 nos.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.5 hect.	0.5 hect.	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)	Quarterly	Quarterly monitoring of air, water and noise are being done.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP Compliances satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not specified for grade wise sorting.	Not applicable as no proposal.	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	Only white cement grade limestone for captive cement plant.	Nil
7d	Any beneficiation process at mines	No proposal	None	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed 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)	Separate removal of top soil.	Top soil removed separately.	Nil
8b	Concurrent use or storage of topsoil	Concurrent use, storage Nil	Concurrent use, storage Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps only for overburden/int erburden.	As per proposal.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling in pit 1.	Backfilling in pit 1 carried out.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.4 hect. backfiling proposed of mined out area of Pit 1	0.4 hect. area backfilling carried out in Pit 1.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	600 saplings has been proposed to plant.	650 sapling planted during the year.	Nil
8g	Survival rate	No proposal.	70%	Nil
8h	Water sprinkling on roads to control airborne dust	Sprinkling on roads.	Water sprinkling observed on haul road.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty in and around mine is satisfactory.

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, monthly and annual returns to be submitted.	Monthly and annual returns have been submitted for reporting year.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME- Daleep sodha Geo.- Dr.Vivek R Bhardwaj Manager-Daleep sodha	Found correct.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Cumulative under Pit-14.71 Ha Reclaimed & Backfilled- 7.18 Ha Waste Disposal -7.2 Ha Occupied by plant, buildings, residential, welfare buildings & roads-1.5 hect. etc.	Information furnished on land use pattern appears to correct.	Nil
9d	Scrutiny of Annual return on afforestation	650 in lease 200 outside lease	Seems to be correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL.	No mineral reject generation.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock: NIL, Graded Ore Stock: 2438.59 as on 01.04.2021	Information found to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price and cost of production: Rs.375 per ton	Some discrepancies observed related to expenditures & cost of production along with other discrepancies.	Violation of Rule 45(7) of MCDR 2017 issued for discrepancies in annual return 2020-21 vide letter dated 03.11.2021.
9h	Scrutiny of Annual return on fixed assets	Fixed assest of Rs.32760321	Seems correct.	Nil

9k	Scrutiny of Annual return on mining machineries	Deatist given	Seems correct.	Nil
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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)	03-NOV-21				
MCDR17 Rule 45(7)(a)	03-NOV-21				
MCDR17 Rule 47(a)	03-NOV-21				
MCDR17 Rule 48	03-NOV-21				

Date :

(D R GURJAR)

Indian Bureau of Mines