INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT 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 Officer and ID No. : **G021) D R GURJAR**

(ii) Designation : Sr. Asst. Contrl. Mines

(iii) Accompaning mine Official with Designation : Shri K.P.Singh, Sr. GM(Mines)

(iv) Date of Inspection : 11-DEC-20

(v) Prev.inspection date : 20-DEC-19

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 : krishan.singh@adityabirla.c
Phone : 9829733368

(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 : 400.74
(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	:	Rajesh kumar Kedia Ultratech cement Ltd. (Unit: Birla white) D-7, Shastri Nagar, Jodhpur JODHPUR RAJASTHAN Phone: 02920264040 FAX :

Mining Engineer

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

Geologist

Name	:	Amar Singh,Full Time
Qualification	:	M Sc (Geology)
Appointment/ Termination date	:	01-JAN-96

Manager

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

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog of previour year 2018-19.	None	Nil
1b	Exploration over lease area for geological axis 1 or 2	During the year exploration was proposed by way 04 bore holes (320m)	No drilling has been carried out during the year 2019-20.	During the year 2019-20, exploration was proposed by drilling of 04 bore holes (320m) but no such drilling has been carried out hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 13.01.2021.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	None	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved document total 260.45 hect. area is mineralised area & 140.25 hect. is non mineralised area. Entire mineralised area has been explored under G1 level, however 04 bore holes (320m) proposal given to prove the mineral in depth continuity as per MEMC Rules 2015.	No exploration work has been carried out during the year 2019-20.	During the year 2019-20, exploration was proposed by drilling of 04 bore holes (320m) but no such drilling has been carried out hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 13.01.2021.

1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2020 24.239 million T (111)(WCG) +4.038million T(111) (NWCG) 6.49 million T(221)(WCG) + 0.982 million T(221)(NWCG)	Balance reserves as on 01.04.2020 White cement grade 24.239 million T (111)(WCG) +4.038million T(111) (NWCG) 6.49 million T(221)(WCG) + 0.982 million T(221)(NWCG)	WCG-White Cement Grade, NWCG-Non White Cement Grade
1f	General remarks of inspecting officers on geology, exploration etc			During the year 2019-20, exploration was proposed by drilling of 04 bore holes (320m) but no such drilling has been carried out hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 13.01.2021.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Year 2019-20: In Pit No. NW-1 ,NW -2,NW-2II,NW-2III, NW-3,SE-1,SE-2, SE-2II,SE-2III, SE-3, SE-4,SE-5, SE-6, SE-7 & SE-7I	As per proposals.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposal given.	However in some pits the benches in overburden were not kept sufficiently in advance so that their workings do not interfere with the working of ore or minerals.	The benches in overburden were not kept sufficiently in advance so that their workings do not interfere with the working of ore or minerals, heince violation of Rule 13(2) of MCDR 2017 issued to the lessee.

2c	Stripping ratio or ore to OB ratio	1:0.44	1:0.98	Nil
2d	Quantity of topsoil generation in m3	98249	2000	Nil
2e	Quantity of overburden generation in m3	497762 cum	375150 cum	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The benches in overburden were not kept sufficiently in advance so that their workings do not interfere with the working of ore or minerals, heince violation of Rule 13(2) of MCDR 2017 issued to the lessee.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	15 nos. Pit NW-1, NW-2, NW-2II, NW-2III, NW-3, SE-1,2, 2-II, 2III,3,4,5,6,7 ,7I	As per proposal	Nil
3b	Quantity of ROM mineral production proposed	2019-20: 1119452 tonnes	2019-20: 380000 tonnes	Nil
3c	Recovery of sailable/usable mineral from ROM production	951534 tonne	380000 tonnes	Nil
3d	Quantity of mineral reject generation	15% of ROM production	No mineral reject generation	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Below thershold value	No mineral reject reported.	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Nil	Nil

3g	Grade of sub grade mineral generation	No proposal	Not applicable	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	Nil
3j	Provision of drilling and blasting in mineral benches	Yes, Jack hammer drilling & blasting.	As per proposal	Nil
3k	Provision of mining machineries in mineral benches	JCB machine used for removal OB	As per proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes as per proposal	Nil
3m	Total area covered under excavation/pits	At the end of plan period i.e. 2020-21 total area put to use under mining= 87.17 hect.	71.50 hect. up to year 2019-20.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.44	1:0.98	Nil
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 449700T 2016-17: 651381 T, 2017-18: 700220 T, 2018-19: 750649 T, 2019-20: 1119452 T, 2020-21: 1181330 T	2015-16: 437000T 2016-17: 440000 T, 2017-18: 440000 T, 2018-19: 439000 T, 2019-20: 380000 T, 2020-21: 220000 T (Till Nov 2020)	Nil

3q	General remarks of inspecting officers on method of mining etc.	Opencast mining method adopted which is best suited 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 dumping directly use for plantation. Separate dumping of OB/IB/Mineral reject proposal given	As per proposal	Nil
4b	Location of topsoil, OB and mineral reject dumps	Top soil will be use for plantation. OB/IB/Mineral reject will be dump in WD4 & WD7	As per proposal	Nil
4c	Number of dumps within lease area and outside of lease area	09	09	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.	02	02	Nil
4f	Number of dead dumps.	05	05	Nil
4g	Number of dumps established.	02	02	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal given	Retaning wall & garland drain not made as per proposal.	During the year 2019-20 total 1441m retaining wall & 792m gralnd drain proposed but during the year only 390m gralnd drain made, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 13.01.2021.

4i	Length of Retaining wall or garland drain all along dumps	During the year 2019-20 total 1441m retaining wall & 792m gralnd drain proposed.	During the year only 390m gralnd drain made.	During the year 2019-20 total 1441m retaining wall & 792m gralnd drain proposed but during the year only 390m gralnd drain made, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 13.01.2021.
4j	Number of settling ponds	No proposal	None	Nil
4k	Specific comments of inspecting officer on waste dump management			During the year 2019-20 total 1441m retaining wall & 792m gralnd drain proposed but during the year only 390m gralnd drain made, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 13.01.2021.

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 during the year 2019-20.	None	Nil
5b	Area under backfilling of mined out area	No proposal during the year 2019-20.	None	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal during the year 2019-20.	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal during the year 2019-20.	None	Nil

5e	General remarks of inspecting officers on backfilling and reclamation etc.		No backfilling proposal given for the year 2019-20 nor backfilling has been reported during the year.

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).	PMCP report shall be submitted up to 1st July for the previous financila year.	PMCP report for the year 2019-20 submitted on time.	However yearly PMCP report for the year 2019-20 submitted vide letted 06.06.2020 which was received in this office on 17.06.2020. The submitted PMCP report is not as per the format, hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 13.01.2021.
6b	Area available for rehabilitation (ha) .	1.0 hect.	5.0 hect.	Nil
6c	afforestation done (ha).	1.0 hect.	5.0 hect.	Nil
6d	No. of saplings planted during the year	1000 nos.	5000 nos.	Nil
6e	Cumulative no .of plants	Not specified	Not reported in PMCP Report	Violation of Rule 26(2) of MCDR 2017 issued vide letter dated 13.01.2021.
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Not specified	Rs 1800000/-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx 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 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	1 hect.	5 hect.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1 hect.by plantation	5 hect. by plantation	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)	Proposed	Quarterly monitored	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Yearly PMCP report for the year 2019-20 submitted vide letted 06.06.2020 which was received in this office on 17.06.2020. The submitted PMCP report is not as per the format, hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 13.01.2021.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	951534 tonne	380000 tonnes	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade wise sorting proposal	None	Nil
7c	Different grade of mineral sorted out at mines.	No different grade sorting proposal	None	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

8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposal given	As per proposal	Nil
8b	Concurrent use or storage of topsoil	Concurrent use	As per proposal	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes proposal given	As per proposal	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 during the year 2019-20.	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2019-20 total 1000 nos. plants proposed over an area of 1.0 hect.	During the year 2019-20 total 5000 nos. sapling planted over an area of 5.0 hect.	Nil
8g	Survival rate	Not specified	80%	As per AR 2019-20.
8h	Water sprinkling on roads to control airborne dust	Proposed	Observed during the inspection	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			General aesthetic beauty is satisfactory in and around mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a	Status of submission of Monthly and Annual returns	Monthly return submitted up to Dec. 2020, Annual Return submitted up to 2019-20.	Timely submission	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME- KP Singh Geo. Amar Singh Manager-KP Singh	Found correct.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits 71.50 ha. Reclaimed Area-Nil Dump area-28.10 ha	Seems to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	5000 in lease 200 outside lease	Seems to be correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation	Not generated	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock limestone 14365.16 as on 31.03.2020	Seems to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex . Mine price Rs.540 per ton	Seems to be correct	Nil
9h	Scrutiny of Annual return on fixed assets	Rs.88562665.00	Seems to be correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Back HOE 0.90 CUM. DUMPER 10-15 TONNES, AIR COMPRESSOR 120 CUM/MN	Found 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)		13-JAN-21				
MCDR17	Rule 13(2)		13-JAN-21				
MCDR17	Rule 26(2)		13-JAN-21				

Date :

(**D R GURJAR**)

Indian Bureau of Mines