

**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 : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Bhawani Singh, Mines Manager, Shri A.S. Raliya
Official with
Designation
- (iv) Date of Inspection : 12/07/2024
- (v) Prev.inspection date : 12/09/2019

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 : alok.nigam@adityabirla.com
Phone : 0291-2431715
- (f) Police Station : GOTAN
- (g) First opening date : 08/07/1987
- (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 : 400.74
- (c) Period of lease :
- (d) Date of Expiry : 09/04/1937
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 : KC Jhanwar
 D-7, Shastri Nagar, Jodhpur
 JODHPUR RAJASTHAN
 Phone:
 FAX :

Agent : Alok Nigam
 NAGPUR RAJASTHAN
 Phone:
 FAX :

Mining Engineer

Name : Bhawani Singh, Full Time
 Qualification : BE (Mining)
 Appointment/ : 13/06/2023
 Termination date

Geologist

Name : AS Raliya, Full Time
 Qualification : M.Sc. (Geology)
 Appointment/ : 15/12/2023
 Termination date

Manager

Name : Bhawani Singh
 Qualification : BE(Mining)
 Appointment/ : 13/06/2023
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	03/08/1993
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	29/07/1994
	:	Mining Scheme rule 12 MCDR1988	18/08/1999
	:	Mining Scheme rule 12 MCDR1988	18/02/2000
	:	Existing rule 11 MCDR1988	16/03/2001
	:	Mining Scheme rule 12 MCDR1988	08/11/2004
	:	Mining Scheme rule 12 MCDR1988	26/08/2010
	:	Renewal under rule 24 MCR1960	31/01/2012
	:	MP review under 17(1) MCR 2016	13/04/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	NA	111 : 11.168 mMT 221 : 1.23 mMT 12.398 million MT Total	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The present status of geology and exploration may be considered as satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-1 N2942050- N2942227 E376885- E377042 Pit-5 N2941270- N2941418 E375516-375652 Pit-8 N2942276- N2942390 E377212-377320 Pit-10 N2942646- N2942713 E377350-377407	Pit-1 N2942050-N2942227 E376885-E377042 Pit-5 N2941270-N2941418 E375516-375652 Pit-8 N2942276-N2942390 E377212-377320 Pit-10 N2942646-N2942713 E377350-377407	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil 0 m OB bench 2- 4 m Limestone 2- 4 m	Top soil 0 m OB bench 2 - 4 m in two bench Limestone 2- 4 m in two bench	
2c	Stripping ratio or ore to OB ratio	1: 0.63	1: 0.63	
2d	Quantity of topsoil generation in m3	4825 t	Nil	
2e	Quantity of overburden generation in m3	10093 m3 25232.5 ton	9800 m3 24500 ton	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The overall development of pits w.r.t type of deposit may be considered as satisfactory.	Error resulting shifting of mining lease area , due to difference in co-ordinate of FRP, has been reported by the party to AME, Dept of Mines & Geology,Gotan vide letter bearing no. UTCL/BW/2024-25 dated 30/05/2024.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Four pits (Pit-1,5,8,10)	Four, as per proposal	
3b	Quantity of ROM mineral production proposed	100030 tonnes	97000 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	100%, (100030 ton)	100%, (97000 tonnes)	
3d	Quantity of mineral reject generation	Nil	Nil	No Mineral Reject generated
3e	Grade of mineral rejects generation and threshold value declared.	NA	Not applicable	

3f	Quantity of sub grade mineral generation.	Nil	Not applicable
3g	Grade of sub grade mineral generation	NA	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	Nt applicable
3j	Provision of drilling and blasting in mineral benches	Yes, Using 32 mm and 100 mm dia drill machine	Yes, as per proposal
3k	Provision of mining machineries in mineral benches	L&T Shovel with 15 tonnes tipper	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB Bench is 2-4 M and Limestone bench 2 -4M	As per proposal, but at some places bench height observed more than 6 m, for which violation letter is under process
3m	Total area covered under excavation/pits	16.70 ha	16.70 ha
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.63	1: 0.63
3o	Total area put in use under different heads at the end of year	26.75 ha.	27.06 ha
3p	Production of ROM mineral during the last five year period as applicable	2019-20 = 149850 2020-21 = 134883 2021-22 = 134088 2022-23 = 100975 2023-24 = 100030	2019-20 = 83000 2020-21 = 70000 2021-22 = 87000 2022-23 = 82000 2023-24 = 97000

3q	General remarks of inspecting officers on method of mining etc.	NA	The overall status of method of mining may be considered as satisfactory.
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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 - No OB from pit 1 used in backfilling OB from pit 5 will be separately stacked Mineral reject-No	Top soil -simultaneous used for planation OB from pit 1 used for backfilling and OB from pit 5 separately stacked.	
4b	Location of topsoil, OB and mineral reject dumps	Top soil - Proposed backfilling in Pit-1 & Pit- 4	Top soil - Nil Generated OB & Waste used in backfilling.	
4c	Number of dumps within lease area and outside of lease area	Four dumps within lease area.	As per proposal	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	All the four dumps are outside of UPL	
4e	Number of active and alive dumps.	3	Three dumps are active and alive..	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	One	One	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	.	.	
4j	Number of settling ponds	Nil	Not applicable	

4k	Specific comments of inspecting officer on waste dump management	NA	The overall status of waste dump management may be considered as satisfactory.
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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.	Yes, full extraction of mineral	Backfilling is in progress at mined out area.	
5b	Area under backfilling of mined out area	0.09Ha	Total 0.09 Ha of area is under backfilling of mined out area.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	As per proposal the top soil whenever encountered is being utilised in plantation program.	
5d	Total area fully reclaimed and rehabilitated	NA	Total 0.20 ha. area reclaimed by plantation.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The present status of backfilling and reclamation may be considered as satisfactory.	

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).	Yes	Yes submitted in time.	
6b	Area available for rehabilitation (ha) .	NA	Nil at present	
6c	afforestation done (ha).	0.60 Ha	0.60 Ha	

6d	No. of saplings planted during the year	600	Total 600 sapplings planted during the year .
6e	Cumulative no .of plants	NA	18712 saplings have been planted so far.
6f	Any other method of rehabilitation	None	Not applicable
6g	Cost incurred on watch and care during the year	Rs 83000/-	Rs 600000/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	55 x50x8 cu.m.	55 x50x8 cu.m. backfilled.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	200 plants	200 saplings have been planted over backfilled area.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	400 Sapling	Planted 400 Sapling within the lease area.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	Using top soil and agriculture waste for plantation on Waste land
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	Using top soil and agriculture waste for plantation on Waste land
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Quarterly monitoring of air, water and noise of core zone and buffer zone location is being done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The overall status of PMCP compliance and progressive closure operations may be considered as satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	100030 T	97000 T during the year 2023-24.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual breaking and sorting	Manual breaking and sorting	
7c	Different grade of mineral sorted out at mines.	NA	Not applicable	
7d	Any beneficiation process at mines .	No such proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The present status of mineral conservation may be considered as satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	The top soil whenever encountered is removed separately and utilised in for plantation program.	
8b	Concurrent use or storage of topsoil	Yes	As above the top soil whenever encountered is utilised concurrently in plantataion program.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps only for overburden	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes , waste is being utilised in backfilling of mined out area.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes, reclamation of mined out land is under progress.,	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	600 plants with in lease area and 200 plants outside lease.	600 plants with in lease area and 200 plants outside lease.	In addition to above 200 sapling have been distributed for villagers
8g	Survival rate	80% within ML	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling is being practised on mine roads as per proposal.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The overall status of aesthetic beauty in and around mines area may be considered as satisfactory.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Yes monthly and annual return submitted within prescribed time limit.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Shri Bhawani singh Geologist.- Shri AS Raliya Manager-Shri Bhawani singh	Mining Engineer- Shri Bhawani singh Geologist.- Shri AS Raliya Manager-Shri Bhawani singh	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pits 16.70ha. Reclaimed area-4.040 Ha. Dump area-7.24 ha	As above	
9d	Scrutiny of Annual return on afforestation	600 within lease 200 outside lease area	As above	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation	As above.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock limestone 2709.20	Closing stock of limestone reported as 2709.20.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price Rs.334.16 per ton	The ex-mine price reported seems to be correct.	

9h	Scrutiny of Annual return on fixed assets	At the beginning of the year : Rs. 33973922 Additions during the Year : Rs. 2312832 Depreciation during the year : Rs. 915274 and Net closing Balance : Rs. 35371480 Rs.33973922.00	The above mentioned information seems to be correct.
9k	Scrutiny of Annual return on mining machineries	BACK HOE 0.90CUM-1, DUMPER 10 TON-5,AIR COMPRESSOR (120 cum./min-1)	As above.

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

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines