

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/UDP/LST-1

Mine code : 38RAJ26005

- (i) Name of the Inspecting : **G021**) **DATA RAM GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri K.P. Singh, Agent Mines
Official with
Designation
- (iv) Date of Inspection : 25-SEP-22
- (v) Prev.inspection date : 11-SEP-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DAROLI**
- (b) **Registration NO.** : **IBM/8329/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : UDAIPUR
- Village : DAROLI
- Taluka : VALLABHNAGAR
- Post office : Daroli
- Pin Code : 313022
- FAX No. : +91 (0294) 2655079
- E-mail : mines@ucwl.jkmail.com
- Phone : +91 (0294) 2561041
- (f) Police Station : DABOK
- (g) First opening date : 16-APR-69
- (h) Weekly day of rest : SUN
2. Address for : PO- DAROLI
correspondance : DISTT- UDAIPUR
UDAIPUR-313022
3. (a) Lease Number : RAJ1882
- (b) Lease area : 704.94
- (c) Period of lease : 50
- (d) Date of Expiry : 14-JAN-58
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : UDAIPUR CEMENT WORKS LTD.
SHRIPATINAGAR PO CFA, NEAR
DABOK DISTT- UDAIPUR
UDAIPUR RAJASTHAN
Phone:
FAX :

Owner : Naveen Kumar Sharma
Udaipur Cement Works Ltd.,
Shripatnagar, PO - CFA
Dabok, Udaipur UDAIPUR
RAJASTHAN
Phone:
FAX :

Agent : Sh. Krishan Pal Singh
Udaipur Cement Works Ltd.
Shripatinagar PO : CFA
Dabok, Udaipur UDAIPUR
RAJASTHAN
Phone: 6376913901
FAX : 6376913901

Mining Engineer

Name : Pratik Kankariya, Full Time
Qualification : B Tech Mining
Appointment/ : 18-JUL-16
Termination date

Geologist

Name : Suraj Chandran, Full Time
Qualification : Msc Geology
Appointment/ : 11-JUL-16
Termination date

Manager

Name : Balkishan Sharma
Qualification : Deploma in Mining & AMIE
Appointment/ : 25-JUN-18
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	28-NOV-06
		FMCP under 23C(1)	19-NOV-13
		Renewal under rule 24 MCR1960	06-JAN-14
		MP review under 17(1) MCR 2016	28-DEC-17
		MP modif under 17(3) MCR 2016	23-OCT-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the previous year 2020-21, exploration was proposed by way of 21 bore holes (840m).	During the year 2020-21, only 9 bore holes having 458m drilling has been carried out.	The backlog drilling of the year 2020-21 has been completed in the year 2021-22.
1b	Exploration over lease area for geological axis 1 or 2	No proposal during the year 2021-22.	During the year 2021-22 backlog drilling of 12 holes having 480m has been carried out.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Agency-Khanna & Associates, New Delhi Expenditures-Rs. 13.34 lakhs	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal given during the year 2021-22.	Entire lease area (213.33 hect.) has been explored under G1 level.	Nil
1e	Balance reserve as on 01/04/20	No specific proposal given in this regard.	Balance reserves as on 01.04.2022 102 Million tonnes	Nil
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
2a	Location of development w.r.t.lease area	Two location proposed D Block & E Block	Mine development work has only been carried out in D Block only.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil & OB benches, only mineral benches proposal given.	As per proposal.	Nil
2c	Stripping ratio or ore to OB ratio	1:0	1:0	No OB/IB generation proposal.

2d	Quantity of topsoil generation in m3	No top soil generation proposal during the year 2021-22.	No top soil generated during the year 2021-22.	Nil
2e	Quantity of overburden generation in m3	No OB generation proposal.	No OB generated during the year.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has only been carried out in Block-D.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pit (in D Block & E Block)	One Pit (in D Block)	Nil
3b	Quantity of ROM mineral production proposed	2021-22: 512587 tonnes	2021-22: 505,99 tonnes	Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	No proposal	Not generated	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	No subgarde generation proposal during the year.	No subgrade generated during the year.	Nil
3g	Grade of sub grade mineral generation	No proposal of subgrade generation	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal of segregation.	None	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal given during the reporting year.	None	Nil
3j	Provision of drilling and blasting in mineral benches	115mm dia holes proposed and ANFO with booster explosives is proposed	As per proposal	Nil
3k	Provision of mining machineries in mineral benches	Loading with L&T 300/Komatsu Excavators and transportation by 35 MT	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	It was proposed that at the end of year 2022-23 total 18.67 hect area will be covered under excavation of pits.	At the end of of year 2021-22 total 17.91 hect. area covered under excavation of pit.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	Nil
3o	Total area put in use under different heads at the end of year	It is proposed that at the end of modified mining plan period i.e. 2022-23 total 21.04 hect area will be covered under different heads.	As per annual return 2021-22, total 18.69 hect. covered under different heads (Excluding Plantation).	Nil

3p	Production of ROM mineral during the last five year period as applicable	2017-18 :382000 T 2018-19 :450570 T 2019-20 :500328 T 2020-21: 500327 T 2021-22: 512587 T,	2017-18 : 5830.930 T 2018-19 : 157192 T 2019-20: 489885 T 2020-21: 180407 T 2021-22: 505199 T	Nil
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3q	General remarks of inspecting officers on method of mining etc.			The opencast mechanised method with the use of HEMM adopted for carrying out the mining operations in the area, which is best suited to the type of the 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)	No proposal of top soil, OB & Mineral reject during the year 2021-22.	No top soil, OB & mineral reject generated during the year.	Nil
4b	Location of topsoil, OB and mineral reject dumps	No proposal of top soil, OB & Mineral reject during the year 2021-22.	No top soil, OB & mineral reject generated during the year.	Nil
4c	Number of dumps within lease area and outside of lease area	No proposal	None	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable	Nil
4e	Number of active and alive dumps.	None	None	Nil
4f	Number of dead dumps.	No proposal	None	Nil
4g	Number of dumps established.	No proposal	None	Nil

4h	Whether Retaining wall or garland drain all along dumps are there.	No waste dumps.	Nil	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	No waste dump hence not required.	Nil
4j	Number of settling ponds	No proposal	None	Nil
4k	Specific comments of inspecting officer on waste dump management			No waste dump observed within lease area, hence no issue 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.	No proposal during the year 2021-22.	Nil	Nil
5b	Area under backfilling of mined out area	No proposal during the year 2021-22.	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generated during the year	No top soil generated during the year.	Nil
5d	Total area fully reclaimed and rehabilitated	No such proposal given during the year 2021-22.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal of Backfilling and reclamation during the year 2021-22 nor backfilling and reclamation work has been carried out during this year.

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 in respect of previous year.	PMCP Report for the year 2021-22 submitted on time.	Nil
6b	Area available for rehabilitation (ha) .	1 Hect.	1 hect.	Nil
6c	afforestation done (ha).	2021-22: 1 hect.	2021-22: 1 hect.	However no proper care and maintainance of saplings planted in the year 2021-22 was observed, which resulted decrease in survival rate of trees. Further during the year 2021-22, total 450m fencing was proposed around plantation area but no such fencing has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.10.2022.
6d	No. of saplings planted during the year	2021-22: 1000 nos.	2021-22; 1000 nos.	However no proper care and maintainance of saplings planted in the year 2021-22 was observed, which resulted decrease in survival rate of trees. Further during the year 2021-22, total 450m fencing was proposed around plantation area but no such fencing has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.10.2022.
6e	Cumulative no .of plants	No such proposal given	3000 nos.	Up to year 2021-22.

6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Rs. 2.0 Lakhs	Rs. 2.5 Lakhs	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable	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 on backfilled area	No proposal	Not applicable	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	However rain water accumulated in pit bottom.	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	1000 nos. sapling	1000 nos. sapling	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1 hect.	1 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)	Regular monitoring of Air, Water & Noise	Regular monitoring of Air, Water & Noise is being carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No proper care and maintainance of saplings planted in the year 2021-22 was observed, which resulted decrease in survival rate of trees. Further during the year 2021-22, total 450m fencing was proposed around plantation area but no such fencing has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.10.2022.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No gradewise sorting, after crushing all ROM mineral dispatched to captive cement plant.	As per proposal	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 proposal	Not applicable	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)	No proposal of top soil generation during the year.	No top soil generated during the year.	Nil
8b	Concurrent use or storage of topsoil	No top soil generation proposal	No top soil generated during the year.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB, Reject & Fine generation proposal.	No OB, waste roock, reject & fine generated during the year.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No scuh proposal given during the year 2021-22.	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal during then year 2021-22.	None during the year.	Nil

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 1000 nos. sapling proposed over an area of 1 hect.	During the year 1000 nos. sapling proposed over an area of 1 hect.	No proper care and maintainance of saplings planted in the year 2021-22 was observed, which resulted decrease in survival rate of trees. Further during the year 2021-22, total 450m fencing was proposed around plantation area but no such fencing has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.10.2022.
8g	Survival rate	No such proposal given	85%	As per AR 2021-22.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on roads to control airborne dust	Water sprinkling observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthatic beauty in & around the mine is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The monthly returns submitted up to Sept 2022. The A/R submitted for the year 2021-22.	Timely submission	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Balkishan Sharma Mining Engineer : Pratik Kankariya Geologist : Suraj Chandran	Found ok	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current O/C mining : 17.910 Ha Occupied by welfare buildings, roads : 0.780 Ha Work done under progressive mine closure plan :1 Ha Etc.	Seems corrected	Nil
9d	Scrutiny of Annual return on afforestation	1000 nos saplings having survival rate 85%	Seems corrected	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not reported in AR 2021-22.	Not generated during the year	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM & graded stock- Nil	Seems corrected	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	It is captive mine, Cost of production- Rs. 270.20 per tonne.	Seems corrected	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed assests-0	No fixed assets was observed.	Nil
9k	Scrutiny of Annual return on mining machineries			

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	19-OCT-22			
MCDR17	Rule 31(4)	19-OCT-22			

Date :**(DATA RAM GURJAR)**

Indian Bureau of Mines