

**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 : **S012** ) **H C SHARMA**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sh. D. K. Arora, Agent & Sh. Amardeep Saxena  
Official with  
Designation
- (iv) Date of Inspection : 08-NOV-19
- (v) Prev.inspection date : 01-JAN-19

**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 :  
Pin Code :  
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 : 703.31
- (c) Period of lease :
- (d) Date of Expiry : 15-APR-99
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 : Shri Dinesh Kumar Arora  
Daroli Limestone mine,  
Vill- Daroli, near Dabok  
Distt- Udaipur UDAIPUR  
RAJASTHAN  
Phone: 9694080484  
FAX : 0292655077

## Mining Engineer

Name : Balkishan Sharma, Full Time  
Qualification : AMIE  
Appointment/ : 25-JUN-18  
Termination date

## Geologist

Name : Dr. Amardeep Saxena, Full Time  
Qualification : M. Sc , Ph. D ( Geochemistry)  
Appointment/ : 12-JAN-16  
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

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	840 M in the year 2019-20 proposed.	No exploration carried out.	
1b	Exploration over lease area for geological axis 1 or 2	21 Bore holes proposed during 2019-20 to update reserves in G-1 category in block- D & Block E over an area of 100.93 ha.	Proposed exploration has not been carried out.	It has been pointed out as VL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Central drilling associates, Nagpur. Expenditure not specified.	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	100.93 ha in G-1 category.	100.93 ha in G-1 category.	
1e	Balance reserve as on 01/04/20	1123.951milli on tonne in G1 category.	1123.94942808 million Tonne	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The proposed exploration for the year 2019-20 has not been carried out, which is being pointed out as Violation of rule 11(1).	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Existing Pit	Being done	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no top soil & No O/B. Only interburden which cannot be mined separately by forming any bench.	Only Mineral benches.	

2c	Stripping ratio or ore to OB ratio	1 :0.04 (ore to Interburden waste)	Not applicable as no waste obtained.
2d	Quantity of topsoil generation in m3	Not applicable	Not applicable as no top soil
2e	Quantity of overburden generation in m3	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	There is no development issue in the mine.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single	Single	
3b	Quantity of ROM mineral production proposed	4.05 Lac T	157192 T(2018-19)	
3c	Recovery of sailable/usable mineral from ROM production	About 100%	100%	
3d	Quantity of mineral reject generation	Nil	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Not applicable	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable
3j	Provision of drilling and blasting in mineral benches	Yes, 115mm dia holes proposed to be blasted using ANFO	Yes, 115mm dia holes proposed to be blasted using ANFO
3k	Provision of mining machineries in mineral benches	Yes excavator dumper combination.	Yes, excavator dumper combination.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	200m X 150m	200m X 150m
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.04 (Ore to Interburden Waste ratio)	Not applicable as no waste generated
3o	Total area put in use under different heads at the end of year	under excavation- 18.14 ha, Waste disposal- 5.63 ha, Infrastructure - 1.75 ha	Excavated 13.00 ha, Plant & Building- 0.46 ha, Road- 0.32 ha, afforested 1 ha.
3p	Production of ROM mineral during the last five year period as applicable	2014-15- Nil, 2015-16- Nil, 2016-17- 2.55 lac T, 2017-18- 3.82 lac T, 2018-19- 4.50 Lac T	2014-15- Nil, 2015-16- Nil, 2016-17- 5943.64 T, 2017-18- 5830.93 T, 2018-19- 157192 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The open caste method with use of HEMM used for working the mine which is most suitable to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top Soil, no O/B & no reject generation.	Not applicable
4b	Location of topsoil, OB and mineral reject dumps	Not applicable as there is no top soil, no O/B & no Reject.	Not applicable
4c	Number of dumps within lease area and outside of lease area	One within lease	One within lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Around 3 Kms from Manderiya Pit.	Around 3 Kms from Manderiya Pit.
4e	Number of active and alive dumps.	one	one
4f	Number of dead dumps.	None	Not applicable
4g	Number of dumps established.	None	Not applicable
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	100 m	100 m
4j	Number of settling ponds	Nil	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	No issue regarding waste Dump management.

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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.	No proposal	Not applicable	

5b	Area under backfilling of mined out area	No proposal	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Not applicable
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	No matured area available for reclamation & rehabilitation.

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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 as per rule	Yes submitted well in time	
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	
6c	afforestation done (ha).	No proposal	Not applicable	
6d	No. of saplings planted during the year	No proposal	Not applicable	
6e	Cumulative no .of plants	No proposal	Not applicable	
6f	Any other method of rehabilitation	No proposal	Not applicable	
6g	Cost incurred on watch and care during the year	No proposal	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Not applicable	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	Not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1000 Nos	700 Nos	It is pointed out as VL.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1.0 ha	1.0 ha	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Being done regularly.	



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The lessee's conduct towards implementation of PMCP was satisfactory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	405514 Mt	157192Mt	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines.	High & Low Grdae	High & Low Grade	
7d	Any beneficiation process at mines	No proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	There is no mineral conservation issue.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not applicable as there is no top Soil	Not applicable	
8b	Concurrent use or storage of topsoil	Not applicable as there is no top Soil	Not applicable	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One for Interburden waste	One dump
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Presently no area under plantation at the beginning of Plantation.	1 ha area afforested so far.
8g	Survival rate	85%	85%
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic beauty in & around the mine was satisfactory.

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#### Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R submitted up to November 2019. The A/R submitted for the year 2018-19.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Sh. Mohan Paliwal, Mining Engineer- Sh. Rasik Padshala, Geologist- Sh. Amardeep Saxena	Manager- Sh. Mohan Paliwal, Mining Engineer- Sh. Rasik Padshala, Geologist- Sh. Amardeep Saxena
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under excavation - 13.00 ha, Plant & Building- 0.46 ha, Kutcha Road- 0.32 ha, Afforested 1.0 ha	Under excavation - 13.00 ha, Plant & Building- 0.46 ha, Kutcha Road- 0.32 ha, Afforested 1.0 ha
9d	Scrutiny of Annual return on afforestation	500 nos Planted within lease area & 200 outside lease area with 85% survival rate.	500 nos Planted within lease area & 200 outside lease area with 85% survival rate.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject Generation - Nil	Reject generated- Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock- Nil, Production- 157192 T & closing Stock- Nil	Found in Order.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Ex- Mine Price & Production cost stated as Rs. 237.92 per tonne.	A total of Rs. 25147718 were expensed to raise a Production of 157192 T of mineral thereby the Cost of production comes about Rs. 159.98 per tonne, which has been stated as Rs 237.92 in the annual return of 2018-19.
9h	Scrutiny of Annual return on fixed assets	The value of Fixed Assets Stated as Nil.	The value of Fixed assets Cannot be Nil.
9k	Scrutiny of Annual return on mining machineries	The detailed list of M/C's Deployed Given	Found in Order.

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**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

**Date :**

**(H C SHARMA)**

Indian Bureau of Mines