

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

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** RAJ/UDP/LST-1

**Mine code :** 38RAJ26003

- (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 & Sh. Amardeep Saxena  
Official with  
Designation
- (iv) Date of Inspection : 08-NOV-19
- (v) Prev.inspection date : 07-JAN-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **DAROLI (ML.2/88)**
- (b) **Registration NO.** : **IBM/8329/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : UDAIPUR  
Village : MANDERIA  
Taluka : VALLABH NAGAR  
Post office : DAROLI  
Pin Code : 313022  
FAX No. :  
E-mail : mines@ucwl.jkmail.com  
Phone : 0294-2411496 (O)
- (f) Police Station : Dabok
- (g) First opening date : 01-JUL-69
- (h) Weekly day of rest : SUN
2. Address for : VILL&POST-DAROLI  
correspondance : TAL-BALAVNAGAR  
DISTT-UDAIPUR
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/ : 15-APR-16  
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	:	Mining Scheme rule 12 MCDR1988	04-JAN-01
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	27-SEP-01
		Modif.of approved Mining Plan	05-DEC-06
		Mining Scheme rule 12 MCDR1988	19-NOV-13
		Modif.of approved Mining Plan	29-JUL-16
		MP review under 17(1) MCR 2016	26-FEB-19

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	Nil during 2018-19	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal during 2018-19	Not applicable, however 445.5730 ha area in G1 category proposed to be explored in the year 2020-21.	
1e	Balance reserve as on 01/04/20	132.89 million Tonnes in proved 111 category as on 1/4/2018.	131.34 million tonnes in proved category as on 1/4/2019	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	No issue regarding exploration.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	South Daroli- 2 Pits	South Daroli- 2 Pits	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top Soil & No O/B waste.	Mineral is out cropping.	
2c	Stripping ratio or ore to OB ratio	1 : 0.04 (Ore to Interburden waste Ratio)	1 : 0.02 (Ore to Interburden Waste)	
2d	Quantity of topsoil generation in m3	Nil	Not applicable	
2e	Quantity of overburden generation in m3	Nil	Not applicable	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	There is no issue regarding development of Pits in the mine.
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two Pits namely South Daroli & Second Pit (Manderiya Pit).	Manderiya Pit	
3b	Quantity of ROM mineral production proposed	1701816 MT	1430047 MT	
3c	Recovery of sailable/usable mineral from ROM production	Almost 100%	Almost 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	Mechanised	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	165 mm dia holes proposed to be drilled & blasted Using ANFO	115 mm dia holes being drilled & blasted with ANFO
3k	Provision of mining machineries in mineral benches	Loading with excavator in to dumpers of 25 T	Loading with excavator in to dumpers of 25 T
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes in mineral bench only as there is no O/B.	Yes
3m	Total area covered under excavation/pits	58.86 ha	58.86 ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.04 (Ore to Interburden Waste Ratio)	1 : 0.02 (Ore to Interburden Waste Ratio)
3o	Total area put in use under different heads at the end of year	Under Excavation- 64.14 ha, Inter burden Waste Dumping- 5.58 ha, Road & Building- 1.93 ha, Infrastructure - 7.0 ha, Mineral Stack- 0.50 ha	Under Excavation- 58.86ha, Inter burden Waste Dumping- 1.24 ha, Road & Building- 1.93 ha, Infrastructure- 7.0 ha, Mineral Stack- 1 ha
3p	Production of ROM mineral during the last five year period as applicable	2014-15- Nil, 2015-16: 851506 T, 2016-17- 1275199 T, 2017-18- 1700394 T, 2018-19- 1701817 T	2014-15- Nil, 2015-16: Nil, 2016-17- 285578.048 T, 2017-18- 1168625.558 T, 2018-19- 1430047.641 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The mine had been worked by Opencast Method with use of HEMM, 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, Mineral is Outcropping.	No Top Soil, No O/B & Mineral is Outcropping.
4b	Location of topsoil, OB and mineral reject dumps	Not applicable for top soil & O/B, Interburden waste proposed to be dumped at 390594 E to 390682E & 2722940 N to 2723180N.	Not applicable
4c	Number of dumps within lease area and outside of lease area	One within lease area	One within lease area.
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	350 m	350m
4j	Number of settling ponds	No proposal	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:

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Sl.No.	Item	Propasals	Actual work	Remarks
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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	There is no matured land available for reclamation.

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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) .	Nil	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	Not specified	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	10000 Nos	8000 Nos
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	5.0 ha	5.0 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)	Regular monitoring of Air, Water and Noise in & outside lease area.	Four Monitoring stations erected for regular monitoring.
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	1701817 T	1392994 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines.	High Grade & Low Grade limestone	High Grade & Low Grade limestone	
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 issue regarding mineral conservation.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no top soil	Not applicable	

8b	Concurrent use or storage of topsoil	There is no top soil	Not applicable
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no top soil & no O/B waste. Only Interburden waste proposed to be stacked seperately.	Inter burden waste stacked seperaetely.
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)	8.2 ha was under green belt at the start of Plan period.	Additional 5.5 ha afforested after plan period.
8g	Survival rate	75 %	92%
8h	Water sprinkling on roads to control airborne dust	Yes	Yes provided three tankers for water sprinkling.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthatic beauty in & around the mine was satisfactory.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R submitted up to November 2019. The A/R submitted for 2018-19.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager & mining Engineer - Sh. Balkishan Sharma, Geologist- Sh. Amardeep Saxena	Manager & mining Engineer - Sh. Balkishan Sharma, Geologist- Sh. Amardeep Saxena	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under excavation- 58.86 ha, under waste disposal- 1.24 ha, Occupied by plant & Building- 8.93 ha, Mineral Storage- 0.5 ha.	Under excavation- 58.86 ha, under waste disposal- 1.24 ha, Occupied by plant & Building- 8.93 ha, Mineral Storage- 0.5 ha.	
9d	Scrutiny of Annual return on afforestation	6500 Planted within lease & 1500 planted out side lease area.	6500 Planted within lease & 1500 planted out side lease area.	
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 - 175938.93 T, Production- 1334004.00 & Closing Stock was 116948.93 T	Found in Order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex- Mine price stated as Rs. 237.92 & Cost of Production as Rs. 237.92 per tonne.	A total of Rs. 2248984065 were expensed to raise a Production of 1334004 T of mineral thereby the Cost of production comes about Rs. 1685.89 per tonne, which has been stated as Rs 237.92.	The discrepancy has been pointed out as VL.
9h	Scrutiny of Annual return on fixed assets	The value of Fixed assets given as Rs. 890542 and depreciation stated as Rs. 304317.	The value of Fixed assets given as Rs. 890542 and depreciation stated as Rs. 304317.	

9k	Scrutiny of Annual return on mining machineries	The detailed list of Miing M/C deployed had been 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