

**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. A D Saxena
Official with
Designation
- (iv) Date of Inspection : 07-SEP-20
- (v) Prev.inspection date : 08-NOV-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 :
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	21 boreholes to a total meterage of 840 m in the year 2019-20	Not done due to COVID 19	
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.	
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.	1123.951million tonne in G1 category.	
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.	Existing pit.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only mineral benches, no top soil exist.	Only mineral benches, no top soil exist.	
2c	Stripping ratio or ore to OB ratio	1:0:04	Not applicable as o/B waste is Zero.	

2d	Quantity of topsoil generation in m3	Nil	Nil
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	500328 T	489885 T	
3c	Recovery of sailable/usable mineral from ROM production	About 100 %	About 100 %	
3d	Quantity of mineral reject generation	Nil	Nil	
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	Being done	

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	115 mm dia holes proposed and ANFO with booster explosives proposed	115 mm dia holes drilled and ANFO with booster explosives will be used.
3k	Provision of mining machineries in mineral benches	Loading with L&T 300 /Komatsu Excavators and transportation by 25T dumpers	Loading with PC 300 and transportation by 25T dumpers shall be done.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	There is no overburden bench however Bench height proposed in mineral is 9 mtrs	There is no overburden bench however Bench height proposed in mineral is 9 mtrs
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	Not applicable as waste is Zero
3o	Total area put in use under different heads at the end of year	Area to be excavated:15.0 9Ha, For waste disposal:1.12 Ha, For Infrastructure : 1.75 Ha, Total 17.96 Ha	Area excavated : 16.59 Ha, For waste disposal : NIL, For Infrastructure : 1.75 Ha, Total 19.15 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 MT, 2017-18 :3.82 Lac MT, 2019-20 :5.00 Lac MT	2014-15: NIL, 2015-16: NIL, 2016-17: 5943.64MT, 2017-18 :5830.93 MT , 2019-20 : 489885 MT
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The opencast mechanised method with the use of HEMM adopted for carrying out the mining operations in the area.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Top soil. No O/B bench, Mineral benches only	No Top soil. No O/B bench, Mineral benches only	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Not applicable as there is no top soil, no O/B waste & no reject.	
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.	Single	One	
4f	Number of dead dumps.	None	Nil	
4g	Number of dumps established.	No proposal	Around 3 Kms from Manderiya Pit	
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 Mtrs	100 Mtrs	
4j	Number of settling ponds	None	Nil	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	No issue regarding 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	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 area available for reclamation & rehabilitation.

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	Not submitted	
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	2000 nos
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	There is no issue regarding implementation of PMCP proposal.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	500328 MT	489885MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	High Grade Limestone & Low Grade Limestone	High Grade Limestone & 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 mineral conservation issue in the Mine.	

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 as there is no top soil	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One dump for interburden reject.	One dump for interburden reject.
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)	2000 trees planted at the proposed site over 1.0 hectare area.	2000 trees planted at the proposed site over 1.0 hectare area.
8g	Survival rate	85%	85%
8h	Water sprinkling on roads to control airborne dust	Yes one water tankers deployed	Yes one water tankers deployed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic beauty in & around mine was satisfactory.

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 September 2020, The A/R submitted up to 2019-20	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Agent : Shri D K Arora, Manager: Shri Balkishan Sharma, Mining Engineer : Balkishan Sharma, Geologist : Dr. Amardeep Saxena	Agent : Shri D K Arora, Manager: Shri Balkishan Sharma, Mining Engineer : Balkishan Sharma, Geologist : Dr. Amardeep Saxena
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current O/C mining : 16.810 Ha ,Occupied by welfare buildings, roads : 0.460 Ha, Work done under progressive mine closure plan :1 Ha	Covered under current O/C mining : 16.810 Ha ,Occupied by welfare buildings, roads : 0.460 Ha, Work done under progressive mine closure plan :1 Ha
9d	Scrutiny of Annual return on afforestation	1000 nos planted within ML & 200 nos outside lease	Found in order.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generation - Nil	Found in order
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details furnished	Found in order
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs 235.66 /MT Ex Mine price	Found in order
9h	Scrutiny of Annual return on fixed assets	Fixed assets- Nil	It is common with Daroli mine no -I.
9k	Scrutiny of Annual return on mining machineries	List of mining M/C furnished	Found in order.

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