

**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 : **G021**) **DATA RAM GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. K P Singh, Agent & HOD (Mines)
Official with
Designation
- (iv) Date of Inspection : 24-SEP-22
- (v) Prev.inspection date : 10-SEP-21

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. : 02942655029
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 : M/s UDAIPUR CEMENT WORKS LTD.
correspondance : Shripatinagar
P.O.CFA Near Dabok, Udaipur
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 : ASHISH AGRAWAL, Full Time
Qualification : B E (Mining)
Appointment/ : 18-JUL-16
Termination date

Geologist

Name : Alok Kumar Gupta, Full Time
Qualification : M Tech Applied Geology
Appointment/ : 01-NOV-20
Termination date

Manager

Name : Balkishan Sharma
Qualification : Deploma in Mining & AMIE
Appointment/ : 25-JUN-18
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
		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 i.e. 2020-21, exploration was proposed by way of 64 bore holes (2740Mts).	During the year 2020-21, only 27 bore holes having 1181m drilling was completed. The backlog of 37 bore holes(1559m) of the year 2020-21 has been completed during the year 2021-22.	Nil
1b	Exploration over lease area for geological axis 1 or 2	During the year 2021-22 total 50 bore holes having 2120m was proposed.	During the year 2021-22 total 87 bore holes drilling having 3722m has been carried out.	During the year 2021-22, apart from year 2021-22 proposal the backlog drilling of the year 2020-21 has also been carried out (37 bore holes having 1573m).
1c	Exploration Agencies and Expenditure in lakh rupees during the year	2021-22: Agency- Khanna & Associates New Delhi Expenditures- Not specifeid	2021-22: Agency- Khanna & Associates New Delhi Expenditures-Rs. 103.47 lakhs	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Area under G2- 18.32 hect., Area Under G3- 82.87 hect.	Entire minreralised area 257 hect. has been explored under G1 level.	Nil
1e	Balance reserve as on 01/04/20	No specific proposal has been given in this regard.	Balance Reserves as on 01.04.2021 127 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
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2a	Location of development w.r.t. lease area	During the year 2021-22 mine development proposed in South Daroli Block -I, South Daroli Block-II & Block B (Manderia Block).	During the year 2021-22 mine development has been carried in Block B (Manderia Block).	However during the year 2021-22 in Block-B, mine development was proposed between grid 2719070N to 2719760N & 391260E to 391900E whereas actual mine development has been carried out between grid 2719200N to 2719900N & 391170E to 391900E hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.10.2022.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No topsoil and overburden encountered only mineral benches proposed.	As per proposal.	No OB benches only Interburden generation proposal given.
2c	Stripping ratio or ore to OB ratio	2021-22: 1:0.10	2021-22: 1:0.03	Only interburden generation.
2d	Quantity of topsoil generation in m3	No top soil generation proposal	No top soil generated during the year.	Nil
2e	Quantity of overburden generation in m3	2021-22: 62657 cum	2021-22: 17768 cum	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			During the year 2021-22 in Block-B, mine development was proposed between grid 2719070N to 2719760N & 391260E to 391900E whereas actual mine development has been carried out between grid 2719200N to 2719900N & 391170E to 391900E hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.10.2022.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	03	01	Nil
3b	Quantity of ROM mineral production proposed	2021-22: 1638657 tonnes	2021-22: 1372350 tonnes.	Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	No proposal during the year.	No mineral reject generated during the year.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No mineral reject generation proposal.	Not applicable as no mineral reject generated during the year.	Nil
3f	Quantity of sub grade mineral generation.	No subgrade mineral generation proposal	No subgrade mineral generated during the year.	Nil
3g	Grade of sub grade mineral generation	No proposal	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal of segregation.	Not applicable	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	None	Nil
3j	Provision of drilling and blasting in mineral benches	115 mm dia holes proposed and ANFO with booster explosives is proposed.	115 mm dia holes drilled and ANFO with booster explosives is being used	Adopting deep hole blasting method.
3k	Provision of mining machineries in mineral benches	Loading with L&T 300 /Komatsu Excavators and transportation by 35T dumpers.	Loading with L&T 300 /Komatsu Excavators and transportation by 35T dumpers.	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	88.09 hect. area at the end of Modified mining plan period i.e. 2023-24.	67.420 hect. area at the end of year 2021-22.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2021-22: 1:0.10	2021-22: 1:0.03	Only interburden generation.
3o	Total area put in use under different heads at the end of year	Proposal total 103.26 (At the end of Mod MP period i.e. 2023-24)	Actual- 78.99 Hect. (At the end of year 2021-22)	Nil
3p	Production of ROM mineral during the last five year period as applicable	2017-18 :1531635 T 2018-19 :1531635 T 2019-20 :1500998 T 2020-21:1599752 T 2021-22: 1633988 T 2022-23: 3322952 T	2017-18 : 1274453.558 T 2018-19 :1334004 T 2019-20 :931753.070 T 2020-21 :1374160.947 T 2021-22: 1372350 T 2022-23: 604463 (up to Aug 2022).	Nil
3q	General remarks of inspecting officers on method of mining etc.			The opencast mechanised method with the use of HEMM adopted for carrying out mining operations in the area, which is best suited 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 reject generation proposal. Only interburden waste proposed for dumping separately.	As per proposal	Nil
4b	Location of topsoil, OB and mineral reject dumps	Top Soil & Mineral Reject- No proposal IB-Between grid 390585 E to 390746 E & 2722270 N to 2722825 N	As per proposal	Nil
4c	Number of dumps within lease area and outside of lease area	1 within lease area	1 within Lease area	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	Outside of UPL	Nil
4e	Number of active and alive dumps.	One	One	Nil
4f	Number of dead dumps.	None	Nil	Nil
4g	Number of dumps established.	No proposal	None	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Nil
4i	Length of Retaining wall or garland drain all along dumps	Year 2021-22: 100m retaining wall & 90m garland drain.	As per proposal	Nil
4j	Number of settling ponds	No proposal	None	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue observed related to waste dump management.

Solid Waste Management - Backfilling:

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 during the year 2021-22.	None	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 generation proposal during the year 2021-22.	No top soil generated during the year 2021-22.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal of fully reclamation & rehabilitation during the year 2021-22.	None	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			During the year 2021-22 no backfilling & reclamation proposal given nor backfilling & reclamation work has been carried out.

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).	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.	3 hect.	Nil

6c	afforestation done (ha).	2021-22: 1 hect.	2021-22: 3 hect.	However plantation during the year 2021-22 has not been carried out on proposed location, 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: 2000 nos.	2021-22: 6000 nos.	However plantation during the year 2021-22 has not been carried out on proposed location, 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	13000 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	Not specified	Rs. 15 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 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	2000 nos. sapling	2000 nos. sapling	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1 hect.	3 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 at four stations.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation during the year 2021-22 has not been carried out on proposed location, 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
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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, only IB generation proposal given which will be dumped within lease area.	Interburden generated during the year dumped on designated place.	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 2000 nos. sapling proposed over an area of 1 hect.	During the year 6000 nos. sapling planted over an area of 3 hect.	However plantation during the year 2021-22 has not been carried out on proposed location, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.10.2022.
8g	Survival rate	Not specified	87%	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 : Ashish Aggrawal Geologist :Alok Kumar Gupta	Seems corrected	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current O/C mining : 67.420 Ha Used for waste disposal : 2.14Ha Occupied by welfare buildings, roads : 8.930 Ha Other Purpose : 0.500 etc.	Seems corrected	Nil
9d	Scrutiny of Annual return on afforestation	6000 nos. sapling reported having survival rate 87% within lease area	Seems corrected	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject reported in AR.	No mineral reject generated during the year.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM & Grade wise stock- Nil	Seems to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	It is captive mine, Cost of production- Rs. 279.59 per tonne.	Seems corrected	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed assests- Rs. 100065621	Seems corrected	Nil
9k	Scrutiny of Annual return on mining machineries	Details of machineries given in AR.	Found correct.	Nil

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