

**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 : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri K.P.Singh, Agent
Official with
Designation
- (iv) Date of Inspection : 23/08/2024
- (v) Prev.inspection date : 08/11/2019

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),2655079
- (f) Police Station : Dabok
- (g) First opening date :
- (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 : 31/03/2030
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 : Sh. Naveen K Sharma
Udaipur Cement Works Ltd
Shripatinagar CFA, Dabok
UDAIPUR RAJASTHAN
Phone:
FAX :

Agent : Krishan Pal Singh
C/o Daroli Limestone Mines
Post Daroli, Tehsil
Vallabhnagar Distt. Udaipur
UDAIPUR RAJASTHAN
Phone: 9116110699
FAX :

Mining Engineer
Name : Ashish Agrawal, Full Time
Qualification :
Appointment/ : 18/07/2016
Termination date

Geologist
Name : Alok Kumar Gupta, Full Time
Qualification : M.Tech Applied Geology
Appointment/ : 01/11/2020
Termination date

Manager
Name : Balkishan Sharma
Qualification :
Appointment/ : 25/06/2018
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	04/01/2001
		Mining Scheme rule 12 MCDR1988	27/09/2001
		Modif.of approved Mining Plan	05/12/2006
		Mining Scheme rule 12 MCDR1988	19/11/2013
		Modif.of approved Mining Plan	29/07/2016
		MP review under 17(1) MCR 2016	26/02/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	Not applicable	Exploration already completed.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Not applicable	
1e	Balance reserve as on 01/04/20		123.04 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The overall status of geology and exploration may be considered as satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Outh DAroli Block-II 2721740N to 2721778N 391060E to 391145 E Manderia (B-Block) N 2719190 to 2719940 E- 391470 to 391780	Manderia (B- Block) N 2719190 to 2719940 E- 391470 to 391780	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	
2c	Stripping ratio or ore to OB ratio	Inter Burden 1:0.1	1:0.09	
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	439390 MT (Waste) 168996.15 cu.m. Manderia block pit-1	181844.38 MT (Waste) 69940.15 cu.m.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The present status of development of pit w.r.t type of deposit may be considered as satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits	One pit	
3b	Quantity of ROM mineral production proposed	4100023 MT	2360022 MT of ROM produced during the year 2023-24. The production target could not be achieved due to local problems (blasting related) as reported during the inspection by mine management.	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%, No overburden adn no top soil, only interburden.	
3d	Quantity of mineral reject generation	Nil	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	NA	Not applicable	
3f	Quantity of sub grade mineral generation.	NA	Not applicable	
3g	Grade of sub grade mineral generation	NA	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	Not applicable
3j	Provision of drilling and blasting in mineral benches	Yes deep hole blasting	115 mm dia holes drilled and ANFO with booster explosive is being used.
3k	Provision of mining machineries in mineral benches	yes	Yes, loading with PC 300 and transportation by 35 T dumpers
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height 8 meters	Bench height maintained at 8 meters max.
3m	Total area covered under excavation/pits	79.91 hecets.	81.98 hectares up to 2023-24.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.10 (Ore to IB ratio)	1:0.090 (Ore to IB ratio)
3o	Total area put in use under different heads at the end of year	Pit : 79.91 hectares, waste dump 5.74 hectares, road and building : 1.93 hectares, Infrastructure :7.0 hectares, Mineral Stack : 0.5 hectare, Total area : 95.08 hectares	Pit : 81.98 hectares, waste dump 3.09 hectares, road and building : 1.93 hectares, Infrastructure :7.0 hectares, Mineral Stack : 1.10 hectare, Total area : 95.10 hectares
3p	Production of ROM mineral during the last five year period as applicable	2019-20 : 1500998 t 2020-21: 1604323t 2021-22: 1638657t 2022-23: 3282363t 2023-24: 4102699t	2019-20 : 931753t 2020-21 : 1345600t 2021-22 : 1372350t 2022-23 : 1592582t 2023-24 : 2360022t
3q	General remarks of inspecting officers on method of mining etc.	NA	The overall status of method of mining may be considered as satisfactory.

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/ Overburden/Reject, only interburden	No top soil/ Overburden/Reject, only interburden which is being stacked separately	
4b	Location of topsoil, OB and mineral reject dumps	Interburden, 390585E to 390746E , 2722104N to 2722158N	Out side UPL, Interburden, 390585E to 390746E , 2722104N to 2722158N	
4c	Number of dumps within lease area and outside of lease area	One active dump within the lease area	One active dump within ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL, Interburden, 390585E to 390746E , 2722104N to 2722158N	Out side UPL, Interburden, 390585E to 390746E , 2722104N to 2722158N	
4e	Number of active and alive dumps.	One active dump	As above	
4f	Number of dead dumps.	None	Nil	
4g	Number of dumps established.	NA	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes, as per proposal	
4i	Length of Retaining wall or garland drain all along dumps	100 meter retaining wall and 90 meter garland drain	70 meter retaining wall and 90 meter garland drain	
4j	Number of settling ponds	No such proposal	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	NA	THE present status of waste dump management may be considered as satisfactory.	

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.	NA	Not applicable	

5b	Area under backfilling of mined out area	NA	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	Not applicable
5d	Total area fully reclaimed and rehabilitated	NA	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The area is not matured for backfilling and reclamation

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	Yes, submitted	
6b	Area available for rehabilitation (ha) .	Nil	Not applicable	
6c	afforestation done (ha).	1 hectare	1 hectare during the year 2023-24.	
6d	No. of saplings planted during the year	2000 saplings	2000 saplings planted during the year 2023-24	
6e	Cumulative no .of plants	NA	17100 saplings planted so far	
6f	Any other method of rehabilitation	NA	Not applicable	
6g	Cost incurred on watch and care during the year	Not specified	14.72 lakhs for 2000 saplings planted during the year 2023-24	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	Not applicable	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NA	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	2000 saplings	Planted 2000 saplings
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1 hectare of area	One hectare of waste land rehabilitated through plantation.
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, as per rule	Yes, monitoring is being done as per rules

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The present status of PMCP compliance may be considered as 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	4100023 tonnes	2360022 tonnes of ROM produced during the year 2023-24.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	No grade-wise sorting of mineral practised in the mines.	
7c	Different grade of mineral sorted out at mines.	NA	The ROM produced is of Cement Grade.	
7d	Any beneficiation process at mines	NA	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The present status of mineral conservation may be considered as satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	No top soil removed during the year 2023-24.	
8b	Concurrent use or storage of topsoil	NA	Not applicable	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One dump	One dump out side UPL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes, base line information available	As above.
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, water sprinkling is being done. Two water tankers have been deployed for the prupose.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes, as per rule	Yes submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Agent Shri K.P.Singh, Manager Shri Balkishan Sharma, Mining Engineer Shir Ashish Agrawal Geologist Shir Alok Gupta	As above	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under O/c 81.98 ha, used for waste disposal : 3.09 ha, Occupied by buildings and road -8.93 ha, other purpose 1.10 ha	As above
9d	Scrutiny of Annual return on afforestation	2000 saplings planted during the year 2023-24.	As above
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	No reject generation.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The ROM is dispatched to cement factory.	As above
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 290.76 per MT ex-Mine Price	The above ex mine price seems to be correct.
9h	Scrutiny of Annual return on fixed assets	Land :Rs.57476963, Machinery : Rs.76644312, Total Rs. 144672652	As above.
9k	Scrutiny of Annual return on mining machineries	Tipper : 19, BH drill : 2, Back Hoe: 10 water tanker : 2, Jeep : 5, Loader : 1, Crusher: 1, Dozer : land explosive van : 1	As above.

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 :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines