

## Regional office: Gandhinagar

File no: GUJ/JMN/ LST-063

### MCDR INSPECTION REPORT

Inspecting officer: Dr. N K Mathur, AMG, Gandhinagar  
Inspection date: 21.04.2018, Type of Inspection: Review of Mining Plan

#### 1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Varvala Limestone
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	25.00.00 Hect (NON-FOREST LAND) ( S.No. 75 & 76/P)
3	Mine code	38GUJ02089
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/18552/2014
5	Name of the lessee, Address, phone, email and fax number	Smt. Bhavnaben Rajendrabhai Trivedi, S. no. 76, Behind Kamaxi temple, Village Varvala, Taluka Dwarka, Distt. Devbhumi Dwarka-361335 Ph no. 09426474769, 08200901766 E mail: varvalamines@gmail.com
6	Village	Varvala
7	Taluka/Mandal	Dwarka
8	District	Devbhumi Dwarka
9	Pincode	361335
10	State	Gujarat
11	Post office	
12	Nearest police station	
13	Nearest Railway station	Varvala
14	Date of Grant of Mining Lease	28.03.2003
15	Date of Execution	14.08.2013
16	Date of opening of Mine	04.09.2013
17	Date of first Renewal, if applicable and its period & expiry	Expiry date: 13.08.2063 under MMDR Amendment Act 2015.
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	NA
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NA
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	NA
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and	NA

	date of appointment in mine	
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	NA
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682 (23) (315) / 2004-MCCM(N) UDP dt-23.06.2004 684(4) (1)/MP-133/2018-GNR dt. 15.06.2018
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Nil
27	Mineral(s) granted in lease and proved for mining	LIMESTONE
28	Method of Mining(Open cast, Underground)	Open cast Working
29	Category (Fully Mechanised, Others or Manual)	Other than fully mechanised (OTFM)
30	Captive/Non Captive	NON Captive

**1.0 Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. – Exploration**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
1a	Backlog of previous year	Prospecting 15 BH was proposed in earlier approved mining plan	11 BH of 110mm dia and 8m depth.	
1b	Exploration over lease area for Geological axis 1 or 2.	Nil		
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	NA	
1e	Balance reserves as on 01.04.2018		(111)861896 (121)& (122)1798000 (333) 1276976	3936872 Cement grade limestone
1f	General remarks of inspecting officer on geology, exploration etc.	Violation under provision of rules 45(5) (b), 45(5) (c) & 55(1) (c) (i) pointed out on dt. 12.06.2018 for rectification.		

## **2.0 Development**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
2a	Location of development w.r.t. lease area	North west part	As per Proposals	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No OB	No OB	
2c	Stripping ratio or ore to OB ratio	Nil	Nil	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	Nil
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Violation under provision of rules 45(5) (b), 45(5) (c) & 55(1) (c) (i) pointed out on dt. 12.06.2018 for rectification.		

## **3.0 Exploitation**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed	89536 tonne	22000 tonne	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No Proposal	No Proposal	
3e	Grade of mineral reject generation and threshold value declared	Nil	NIL	
3f	Quantity of sub-grade mineral generation	No Proposal	NIL	
3g	Grade of sub-grade mineral generation	No Proposal	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Semi Mechanised	Semi Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Not applicable	
3j	Provision of drilling & blasting in mineral benches	Not required	Not required	
3k	Provision of mining machineries in mineral benches	Excavator & Tipper	Excavator & Tipper	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	NA	
3m	Total area covered under excavation/pits	1.156	1.156	
3n	Ore to OB ratio for the pit/mine during the year	NA	NA	
3o	Total area put in use under different heads at the end of year	1.466	1.466	

3p	Production of ROM mineral during last five-year period, as applicable	(2013-14)-41973 (2014-15)-63566 (2015-16)-68537 (2016-17)-73591 (2017-18)-89536	0 3600 7200 12000 22000	
3q	General remarks of inspecting officer on method of mining etc.	Violation under provision of rules 45(5) (b), 45(5) (c) & 55(1) (c) (i) pointed out on dt. 12.06.2018 for rectification.		

#### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Nil	Nil	No OB & reject
4b	Location of topsoil, OB & mineral reject dumps	Nil	Nil	
4c	Number of dumps within lease area and outside lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer	Violation under provision of rules 45(5) (b), 45(5) (c) & 55(1) (c) (i) pointed out on dt. 12.06.2018 for rectification.		

#### **5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Violation under provision of rules 45(5) (b), 45(5) (c) & 55(1) (c) (i) pointed out on dt. 12.06.2018 for rectification.		

## 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	No Proposal	No Proposal	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No Proposal	No Proposal	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means (Fencing)	Nil	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal  50	No Proposal  250	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air- 01 Water-01 Noise-01	Air- 01 Water-01 Noise-01	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Violation under provision of rules 45(5) (b), 45(5) (c) & 55(1) (c) (i) pointed out on dt. 12.06.2018 for rectification.		

## 7.0 Mineral Conservation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	Cement	Cement	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues.	Violation under provision of rules 45(5) (b), 45(5) (c) & 55(1) (c) (i) pointed out on dt. 12.06.2018 for rectification.		

## 8.0 Environment

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	50	250	
8g	Survival rate	50%	70%	
8h	Water sprinkling on roads to control airborne dust	Water to be sprinkled on the haul road to suppress the dust being getting airborne	Mobile water tankers have been deployed for the purpose.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Violation under provision of rules 45(5) (b), 45(5) (c) & 55(1) (c) (i) pointed out on dt. 12.06.2018 for rectification.		

## 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	On line monthly & annual returns is not submitted	

S. N.	Item	Details given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Return is not submitted.	Violation under provision of rules 45(5) (b), 45(5) (c) & 55(1) (c) (i) pointed out on dt. 12.06.2018 for rectification.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			
9d	Scrutiny of Annual return on afforestation			
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)			
9f	Scrutiny of Annual return on ROM stock and/or graded ore			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost			
9i	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -

Violation under provision of rules 45(5) (b), 45(5) (c) & 55(1) (c) (i) pointed out on dt. 12.06.2018 for rectification.

Place Gandhinagarr

Name: Dr N. K. Mathur

Signature

Date 20-07-2018

Designation: AMG