

## MCDR INSPECTION REPORT

Inspecting officer: Dr. N K Mathur, AMG, Gandhinagar  
 Inspection date: 16.12.2018, Type of Inspection: Star Rating/MCDR

**1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	Dharampur/Kajawdri Limestone Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	87.33 Ha. (Forest Area: Nil) (Non-forest Area: 87.33 ha) ( S. no. 2/9/P)
3	Mine code	38GUJ08001
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/238/2011
5	Name of the lessee, Address, phone, email and fax number	Saurashtra Chemical, Division of Nirma Ltd. Porbandar,
6	Village	Dharampur
7	Taluka/Mandal	Ranavav (Now – Porbandar)
8	District	Porbandar
9	Pincode	360560
10	State	Gujarat
11	Post office	Dharampur
12	Nearest police station	Udhyognagar, Porbandar
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	14.10.1965
15	Date of Execution	05.04.1966
16	Date of opening of Mine	
17	Date of first Renewal, if applicable and its period & expiry	01.04.1985
18	Date of second Renewal, if applicable and its period & expiry	28.03.2005, (as per the section 8(A)(5) of MMDR Act-2015 State Govt, vide order Number- MCR-1564-28298 Chh-1 Date-18/10/2017 upto 31/03/2030)
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Sailesh V. Sonara, Executive Director, Saurashtra Chemical, Division of Nirma Ltd. Porbandar <a href="mailto:quarry@saukemindia.com">quarry@saukemindia.com</a> 0286-2245431 (Fax No) 0286-2242479-81 (Phone No)
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Anay Awasthi, Mines Agent, Saurashtra Chemical, Division of Nirma Ltd. Porbandar <a href="mailto:quarry@saukemindia.com">quarry@saukemindia.com</a> 0286-2245431 (Fax No) 0286-2242479-81 (Phone No)
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri Shashi Bhusan Prasad, Mines Manager, Saurashtra Chemical, Division of Nirma Ltd. Porbandar <a href="mailto:quarry@saukemindia.com">quarry@saukemindia.com</a> 0286-2245431 (Fax No)

	0286-2242479-81 (Phone No)
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23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri S.B.Prasad, (B.E. Mining) Saurashtra Chemical, Division of Nirma Ltd. Porbandar <a href="mailto:quarry@saukemindia.com">quarry@saukemindia.com</a> 0286-2245431 (Fax No) 0286-2242479-81 (Phone No)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Sri Mehul D Sharma, Geologist, Saurashtra Chemical, Division of Nirma Ltd. Porbandar <a href="mailto:quarry@saukemindia.com">quarry@saukemindia.com</a> 0286-2245431 (Fax No) 0286-2242479-81 (Phone No)
25	Date of Approval of Mining plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Letter No – 682(23)(541/95MCCM(N)UDP) Date - 10/06/1996
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Letter No. 684(4)(1)/MP-91MDRD(N) GNR, Date – 13/02/2018 (2017-18 to 2020-21)
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	O.T.F.M.
30	Captive/Non Captive	Captive

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

SN	Item	Proposals (2017-18)	Actual work	Remarks
1a	Backlog of previous year	N.A.	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	N.A.	Nil	Area has been fully explored in G1 category
1c	Exploration Agency & Expenditure in lakh Rupees during the year	N.A.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2018		2047899 ton (Chemical Grade + Cement Grade) under category 111,121 and	527899 Ch. + 1520000 Cement 111,121,122

		122	
1f	General remarks of inspecting officer on geology, exploration etc.	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 21.01.2019 for rectification.	

### **2.0 Development**

SN	Item	Proposals (2017-18)	Actual work	Remarks
2a	Location of development w.r.t. lease area	N.A.	N.A.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	N.A.	N.A.	There is no O/B and there is also no any generation of rejects as a result of the mining operations
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	10	10	Utilized for plantation
2e	Quantity of overburden generation in m3	Nil	Nil	As stated above
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 21.01.2019 for rectification.		

### **3.0 Exploitation**

SN	Item	Proposals (2017-18)	Actual work	Remarks
3a	Number of pits proposed for production	2 (pit no- 5 & 6)	2 (pit no- 5 & 6)	
3b	Quantity of ROM mineral production proposed	6000 ton	5200.340 ton	
3c	Recovery of salable/usable mineral from ROM production	5700 ton	5200.340 ton	
3d	Quantity of mineral reject generation	NA	Nil	
3e	Grade of mineral reject generation and threshold value declared	NA		
3f	Quantity of sub-grade mineral generation	600	470	
3g	Grade of sub-grade mineral generation	Other than Chemical Grade Limestone and Undersize Limestone	Other than Chemical Grade Limestone and Undersize Limestone	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No	No	
3j	Provision of drilling & blasting in mineral benches	No	No	
3k	Provision of mining machineries in	No	No	

	mineral benches			
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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	Between local grid line 2394715 N to 2395350 N 570560 E to 569740 E	Between local grid line 2394715 N to 2395350 N 570560 E to 569740 E	
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	
3o	Total area put in use under different heads at the end of year	Pit-24.55 Ha. Waste/reject - Others- (1) 1.37 Ha. Plantation (2) 1.90 Ha. Road and infrastructure	Pit-24.55 Ha. Waste/reject - Others-(1) 1.37 Ha. Plantation (2) 1.90 Ha. Road and infrastructure	
3p	Production of ROM mineral during last five-year period, as applicable	2013-14 24000T 2014-15 24000T 2015-16 24000T 2016-17 24000T 2017-18 6000T	2013-14-9902.5T 2014-15-12389T 2015-16- 21929.5T 2016-17 19773.905 2017-18-5200.34T	
3q	General remarks of inspecting officer on method of mining etc.	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 21.01.2019 for rectification.		

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

SN	Item	Proposals (2017-18)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	There is no O/B and there will also not be any generation of rejects as a result of the mining operations and wherever found top soil will be used in plantation work	10 mt.	Used in Plantation work
4b	Location of topsoil, OB & mineral reject dumps	N.A.	N.A.	Used in Plantation
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)	N.A.	N.A.	
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	N.A.	N.A.	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	N.A.	N.A.	
4k	Specific comments of inspecting officer	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 21.01.2019 for rectification.		

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

SN	Item	Proposals (2017-18)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	N.A.	N.A.	
5b	Area under backfilling of mined out area	Not in Proposal	Not in Proposal	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	There is practically no soil covering in this area. So provision for separate stacking of topsoil also has not been made. However, the topsoil if found in plot holes or along the solution channels will be utilized for plantation work.	Same as proposal	
5d	Total area fully reclaimed & rehabilitated	N.A.	N.A.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The topsoil generation is utilised for plantation purposes only.		

### **6.0 Progressive Mine Closure Plan**

SN	Item	Proposals (2017-18)	Actual work	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.	Yes	Yes	

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	i) No Provision was Made ii) 0.1 Ha. iii) 100 sapling iv) Approx. v) No vi) Approx. 120000/-	1.No Provision was Made 2. 0.1 Ha. 3. 450 sapling 4. 5.No 6. Approx. 120000/-	
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	There is no proposal for backfilling.	There is no proposal for backfilling.	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No proposal for rehabilitation however undersize material which was generated during sizing will be use for partial backfilling of the voids temporarily	Same as Proposal	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air quality monitoring was done as per CCOM's circular 3/92 during mining.	Air quality Monitoring is being regularly carried out as half yearly and all results are within prescribed limit	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 21.01.2019 for rectification.		

## **7.0 Mineral Conservation**

SN	Item	Proposals (2017-18)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	5100 Mt Sized Limestone 600 mt U.S. 300 mt Mining Loss	4730.340 Mt Sized Limestone 470 mt U.S.	
7b	Method of grade-wise mineral sorting i.e. manual	Manual	manual	

	or mechanical			
7c	Different grade of mineral sorted out at mines	Undersized Limestone and other than chemical grade limestone stored at mines pit floor	As per proposal	
7d	Any beneficiation process at mines	N.A.	N.A.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 21.01.2019 for rectification.		

## 8.0 Environment

SN	Item	Proposals (2017-18)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is practically no soil covering in this area. So provision for separate stacking of topsoil also has not been made. However, the topsoil if found in pot holes or along the solution channels will be utilized for plantation work.	As per Proposals	
8b	Concurrent use or storage of topsoil	Wherever encountered ,Utilized for Plantation	Wherever encountered, Utilized for Plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	The Undersized generated during sizing will be stacked on pit floor at earmarked site for future use. The site for stacking of under sized limestone is earmarked bounded within grid 2394717 to 2934755 N and 569761 E to 569826 E.	Same as proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal for rehabilitation however undersize material which was generated during sizing will be used for partial backfilling of the voids temporarily.	No proposal for rehabilitation however undersize material which was generated during sizing will be used for partial	

			backfilling of the voids temporarily	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No Proposal	No proposal	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation was proposed in 0.1 Ha area total sapling is 100.	Plantation was done in 0.1 Ha area and total sapling is 450.	
8g	Survival rate	80%	35%	
8h	Water sprinkling on roads to control airborne dust	Regular water sprinkling is done on haul road and loading and unloading point.	Regular water sprinkling is done on haul road and loading and unloading point to control fugitive emission.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 21.01.2019 for rectification.		

### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date. A.R. submitted up to till date.		
S. N.	Item	Details given in A.R.(2017-18)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1 Manager, 1 Geologist, 1 Mining Engineer	Check & found in order.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current opencast Working – 24.55 Ha. Reclaimed and rehabilitation – 1.37 Ha. Road and Infrastructure – 1.90 Ha.	Check & found in order.	Nil



		Remaining Area 61.10		
9d	Scrutiny of Annual return on afforestation	450 sapling are planted against 100 proposed.	Check & found in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/s- Nil, ROM-5200.34T, Dispatch-4730.34T, C/s-3807.205T, Ex Mine-473/	O/s- Nil, ROM-5200.34T, Dispatch-4730.34T, C/s-3807.205T, Ex Mine-473/	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production-473/	Check & found in order.	Nil
9i	Scrutiny of Annual return on fixed assets	Rs.2555834	Check & found in order.	Nil
9k	Scrutiny of Annual return on mining machineries	Air Compressor-450, Rock drill-110MM & 32MM, Front end loader-2M3	Check & found in order.	Nil

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

Violation under provision of rules 26(2), 33 & 35(2) pointed out on dt. 21.01.2019 for rectification.

Place Gandhinagarr

Name: Dr N. K. Mathur

Signature

Date 25-01-2019

Designation: AMG