

## MCDR INSPECTION REPORT

## 1.0 GENERAL

SN	Particulars	Details
1 (a)	Name of the Mine	Dharampur/Kajawdri Limestone Mines
1 (b)	Name of Inspecting officer & Designation	G. Ram Sr.Assistant Controller of Mines
1(c)	Accomp.official	Sh. DK Singh
1(d)	Date & Type of Inspection	04.1.2018 & RMP
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)
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
8	District	Porbandar
9	Pin code	360560
10	State	Gujarat
11	Post office	Dharampur
12	Nearest police station	Udhyog nagar, 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
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)
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. 682(23) (MS-383)/200) MCDR Udaipur dtd. 02-11-2012 (2012-13 to 2016-17) & 684(4) (1)/MP-91/2017-GNR Dated-12/2/2018 for 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)	A-Category
30	Captive/Non Captive	Captive

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

### Exploration

SN	Item	Proposals (2016-17)	Actual work	Remarks
1a	Backlog of previous year	Not Proposed	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Nil	
1e	Balance reserves as on 01.04.2017...	---	1597542.100 (Chemical Grade + Cement Grade) under UNFC category 111,121 and 122	
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

### 2.0 Development

SN	Item	Proposals(2016-17)	Actual work	Remarks
2a	Location of development w.r.t. lease area	2394600N-2394900N 569600E-569900E & 2394800N-2395000N 569900 E-570200 E	2394600N-2394900N 569600E-569900E & 2394800N-2395000N 569900 E-570200 E	Partly deviated due to lagging in production.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Proposed for separately removal of mineral reject	Mineral rejects removed separately & stacked	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	Not Proposed	10M3	
2e	Quantity of overburden generation in m3	Not Proposed	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	There is no O/B/waste generation presently.		

### 3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	Small shallow pits as earmarked	Small shallow pits as earmarked	
3b	Quantity of ROM mineral production proposed	24000 Mt	19773.9 Mt	
3c	Recovery of saleable/usable mineral from ROM production	20400 Mt	18013.9 Mt	
3d	Quantity of mineral reject generation	2400T	1760T	
3e	Grade of mineral reject generation and threshold value declared	Chemical/Cement grade	Chemical/Cement grade	
3f	Quantity of sub-grade mineral generation	Not proposed	NIL	
3g	Grade of sub-grade mineral generation	Size separation Chemical grade L/s - 25MM	Size separation Chemical grade L/s - 25MM	
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	Not Proposed	NIL	
3j	Provision of drilling & blasting in mineral benches	No	No	
3k	Provision of mining machineries in mineral benches	No	No	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m	2-3m & above	
3m	Total area covered under excavation/pits	-	Pit-21.24 Ha. Others-(1) 1.37 Ha. Plantation (2) 3.62	
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-21.24 Ha. Others-1.37 Ha. Plantation, 3.62 Ha.	
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 24000T	2013-14 -9902.445T 2014-15 -12388.705T 2015-16 -21929.500T 2016-17 -19773.905T 2017-18 -5200.340 T	
3q	General remarks of inspecting officer on method of mining etc.	NIL		

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

SN	Item	Proposals (2016-17)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Proposed for separate stacking	Stacking separately	
4b	Location of topsoil, OB & mineral reject dumps	N.A.	N.A.	
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			

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

SN	Item	Proposals (2016-17)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	NIL	
5b	Area under backfilling of mined out area	Not Proposed	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	NIL	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The topsoil generation is utilising for plantation purposes only.		

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

SN	Item	Proposals (2016-17)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23 E (2). Details should be given in the format	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  ii) 0.20 Ha. iii) 100 sapling  iv) NA  v) NA	i) NIL  ii) 0.1 Ha. iii) 1000 sapling  iv) NA  v) Approx. 120000/-Rs	
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, since no OB/Waste generated presently.	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	NIL	
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			

#### **7.0 Mineral Conservation**

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	20400 Mt ROM	19773.9 Mt ROM	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Proposed for stacking separately.	Undersized Limestone & other than chemical grade limestone stacked separately.	
7d	Any beneficiation process at mines	N.A.	N.A.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

#### **8.0 Environment**

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	10M3	
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)	No OB/Waste generated & proposed	The Undersized generated during sizing will be stacked at earmarked ground.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No OB/Waste generated & proposed	The Undersized generated during sizing will be stacked at earmarked ground.	
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 1000	
8g	Survival rate	85%	35% due to scarcity of water & less security	
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	NIL		

#### 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 – Regular A.R. submitted up to till date-29/6/2017		
S.N	Item	Details GIVEN in A.R.(2016-17)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager/ME- Sh. Shhashi Bhushan Prasad & Mehul Sharma, Geologist	Manager/ME- Sh. Shhashi Bhushan Prasad & Mehul Sharma, Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Opencast Working – 21.24 Ha. Reclaimed & rehabilitation –1.37Ha.Road& Infrastructur-3.62Ha.	Opencast Working – 21.24 Ha. Recl. & rehabilitation 1.37Ha.Road& Infrastr-3.62Ha.	
9d	Scrutiny of Annual return on afforestation	1000 sapling	1000 sapling planted but poor survival	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	1760T	1760T	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/s-36477.2T,ROM-19773.9T,Dispatch-18013.9T, C/s-38237.2T,Ex Mine-441	O/s-36477.2T,ROM-19773.9T,Dispatch-18013.9T, C/s-38237.2T,Ex Mine-441	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production-440.6	-	
9i	Scrutiny of Annual return on fixed assets	2555834 Rs.	-	
9k	Scrutiny of Annual return on mining machineries	Air Compressor-450, Rock drill-110MM & 32MM,Front end loader-2M3	Air Compressor-450, Rock drill-110MM & 32MM,Front end loader-2M3	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The lessee has been submitted the Review of Mining Plan for approval & approved by this office vide letter No 684(4) (1)/MP-91/2017-GNR Dated-12/2/2018 for 2017-18 to 2020-21. The lessee is regular in submission of online periodical returns. Presently no significant violation observed.