

## 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. Shashi Bhushan Prashad, Mines Manager
1(d)	Date & Type of Inspection	29.10.2017 & Star Rating/MCDR
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	18.21 HA. (Forest Area: Nil) (Non-forest Area: 18.21 HA)
3	Mine code	38GUJ08269
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	Udhyognagar, Porbandar
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	07.2.1964
15	Date of Execution	30.3.1964
16	Date of opening of Mine	
17	Date of first Renewal, if applicable and its period & expiry	13.6.1983
18	Date of second Renewal, if applicable and its period & expiry	21.3.2003 & under process
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Period extended as per MMDR amendment act 2015 section 8A(5)(6) up to 31/03/2030
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), 0286-2242479-81(Phone)
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),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),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	Sri Niral P Ravat, (Diploma in Mining) Saurashtra Chemical, Division of Nirma Ltd. Porbandar, <a href="mailto:quarry@saukemindia.com">quarry@saukemindia.com</a> 0286-2245431 (Fax),0286-2242479-81 (Phone)
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) 0286-2242479-81 (Phone)
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)(626)/96 MCDR(N) UDP DaTED-12/6/1997
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) & further RMP was approved on 02/11/2012
27	Mineral(s) granted in lease	Limestone
28	Method of Mining(Opencast, U/G)	Opencast
29	Category (FM, OTFM or Manual)	A-OTFM
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	NA	NIL	<i>Part of ML area in NW side near office/quarter area in not explored as per new provision.</i>
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...	NA	UNFC-(111,121&122) 1,27,434.17 Mt as on 01.4.2017	
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	570300E to 570515E & 239647N to 239659N	570300E to 570515E & 239647N to 239659N	<i>Partly done as proposed &amp; deviated. Violation under rule 11(1) &amp; 11(4) of MCDR 2017 pointed out for rectification.</i>
2b	Separate benches in topsoil, OB and mineral (Rule 15)	Proposed for separate stacking of topsoil/OB	stacked separately,	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	Not proposed	About 10M3	
2e	Quantity of overburden generation in m3	Not proposed	NIL	No OB generated
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	<i>The party has been submitted the RMP for approved &amp; this office has been approved the RMP on 02.2.2018 for next plan period.</i>		

**3.0 Exploitation**

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	Single pit-01	Single pit-01	<i>The violation of provision of rule 11(1) &amp; 11(4) pointed out for rectification. The party has been submitted the draft RMP for approval &amp; this office has approved the RMP on 02.2.2018 for further next plan period.</i>
3b	Quantity of ROM mineral production proposed	24,000T	21,306.4T	
3c	Recovery of saleable/usable mineral from ROM production	85% of ROM	About 85%	
3d	Quantity of mineral reject generation	2400T	1920T	
3e	Grade of mineral reject generation and threshold value declared	Undersize L/s of chemical grade (-25MM)	Undersize L/s of chemical grade (-25MM)	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised-A (OTFM)	Mechanised-A (OTFM)	
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	Rock drill 110MM (Non-electric) with Air Compressor-450cfm	Rock drill 110MM (Non-electric) with Air Compressor-450cfm	
3k	Provision of mining machineries in mineral benches	Pay loader & Tractor trolley & tipper combination	Pay loader & Tractor trolley & tipper combination	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m bench height	3m bench height	

3m	Total area covered under excavation/pits	0.17Ha Yearly	About 0.17Ha, Yearly About 12.5Ha total area excavated.	
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-12.5 Ha Waste/reject-0.25Ha Road-0.67Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	2013-14-24,000T 2014-15-24,000T 2015-16-24,000T 2016-17-24,000T 2017-18-No proposal	2013-14-5799.86T 2014-15-15196.94T 2015-16-22785.58T 2016-17-21306.90T 2017-18-0 (Up to Sept.17)	
3q	General remarks of inspecting officer on method of mining etc.	<i>The violation of provision of rule 11(1) &amp; 11(4) pointed out for rectification. The party has been submitted the draft RMP for approval &amp; subsequently approved by this office on 02.2.2018 for further next plan period.</i>		

#### **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)	Separate stacking proposal of topsoil/reject	Stacking separately	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed specifically	N.A	
4c	Number of dumps within lease area and outside lease area	Not Proposed specifically	N.A	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	NIL	
4e	Number of active & alive dumps	Not Proposed	NIL	
4f	Number of dead dumps	Not Proposed	NIL	
4g	Number of dumps stabilized	Not Proposed	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	NIL	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	NIL	
4j	Number of settling ponds	Not Proposed	NIL	
4k	Specific comments of inspecting officer	NIL		

#### **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	No OB generated for backfilling of worked out pits.		

#### **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	N.A.	Annual return as per provision of Rule 26 of MCDR 2017 is submitted with in stipulated time.	

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) N.A. ii) 0.1 Ha. iii) 100 Nos. iv) No proposed v) N.A vi) N.A	i) N.A. ii) 0.1 Ha. iii) 100 Nos. iv) Nil v) N.A vi) Not given	Poor survival
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	No reclamation is proposed by means of backfilling as no waste material is available	No reclamation is proposed by means of backfilling as no waste material is being generated.	
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)	Ambient Air Monitoring, water quality monitoring and noise monitoring	Ambient Air, water, noise quality monitoring is being done on half yearly & soil yearly basis	
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL		

#### 7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	24,000T	21306.7T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised & Manual means	Mechanised & Manual means	
7c	Different grade of mineral sorted out at mines	Only Undersize (-25MM) Limestone is available as subgrade mineral and stacked at pit floor	Only Undersize (-25mm) Limestone is available as subgrade mineral and stacked at pit floor	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	NIL		

#### 8.0 Environment

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	About 10 Cu Mt top soil generated	
8b	Concurrent use or storage of topsoil	Not Proposed	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	No Proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	N.A.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out Pits will be utilised as rain water Storage	Pits are being used for rain water harvesting	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	100 No Plantation proposed	100 No. planted	
8g	Survival rate	70-80%	50-60%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on road will be done through water tanker	Water Sprinkling on road is being done by water tanker	
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 - 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	Details GIVEN in A.R.(2016-17)	Observation of I/Officer /Actual reported in Returns	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Shri Niral P Ravat ( ME) Shri Mehul D Sharma (Geologist)	V/L pointed out for under rule 55(1)(3) of MCDR 2017 for compliance.	
9d	Scrutiny of Annual return on afforestation	Current Working -12.5 Ha Afforestation /Plantation - 0.1Ha. & 100 Nos	Current Working -12.5Ha Afforestation /Plantation - 0.1 Ha. & 100 Nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	1920T	1920T	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/s-58109T,ROM-21306.9 Mt, Dispatch-19386.9T, C/s-60029T	---	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine Price Rs.441/- per tonne, Cost of Production 440.6/-	---	
9i	Scrutiny of Annual return on fixed assets	Industrial – 4650000- Residential - 2090834	---	
9k	Scrutiny of Annual return on mining machineries	Hire basis	Hire basis	

10-Details of violations observed during current inspection and compliance position of earlier violation pointed out: - Presently mine was inspected under Star Rating of Mines inspection & violation under provision of Rules 11(1), 11(4), 33 & 55(1) (3) of MCDR, 2017 pointed out on 15/11/2017 for rectification & subsequently lessee submitted the compliance report 01/01/2018 & further RMP approved by this office dated 02.2.2018 for next plan period.