

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Dharampur/Kajawdri Limestone Mines
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Sh. D.K. Singh & Shashi Bushan Prasad, Mines Manager
1(d)	Type of Inspection	Star Ratings/MCDR
1(e)	Date of Inspection	18.03.2019
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	18.21 HA., Survey No-2/9, (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 Chemicals, Division of NIRMA Ltd. Birla Sagar, Porbandar Gujarat 360576 quarry@saukemindia.com
6	Village	Dharampur
7	Taluka/Mandal	Ranavav
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	07.02.1964
15	Date of Execution	30.03.1964
16	Date of opening of Mine	NA
17	Date of first Renewal, if applicable and its period & expiry	13.06.1983
18	Date of second Renewal, if applicable and its period & expiry	21.03.2003
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, Order from Govt. of Gujarat, No- MCR-1563-3056 Chh.1 Date-18/10/2017
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. Birla Sagar – Porbandar, quarry@saukemindia.com (Fax No)0286-2245431, (Phone No) 0286-2242479-81
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri AnayAwasthi, Mines Agent, Saurashtra Chemical, Division of Nirma Ltd. Birla Sagar–Porbandar, quarry@saukemindia.com (Fax No)0286-2245431, (Phone No) 0286-2242479-81
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri S.B.Prasad, Saurashtra Chemicals, Division of NIRMA Ltd. Birla Sagar, Porbandar Gujarat 360576 quarry@saukemindia.com, (Phone No) 0286-2242479-81 Mo. No- 7573020779
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, quarry@saukemindia.com 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, quarry@saukemindia.com 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.	682(23)(626)/96MCCM(N) UDP Date -12/06/1997
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. 684(4)(1) MP-89/17 MDRD(N) GNR Date. 02-02-2018 (2017-18 to 2018-19)
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	'A' (OTF)
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 (2017-18)	Remarks
1a	Backlog of previous year	No backlog of previous year 2016-17	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Maximum areas under working pits are considered as area explored.	6 Core BHs were proposed during the year 2018-19 during inspected lessee representative ensure the completion of this exploration by the end of March-2019.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No exploration by way of trial pits/core drilling was proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposals	Area covered under G1 exploration is about 12.66Ha & rest 5.55 Ha falls under G2 & G3 level	
1e	Balance reserves as on 01.04.2018...	Reserves: (Tonnes) Proved (111)-152251 Resources: Indicated Mineral Pre-Feasibility(211):7904 Inferred Resources(331):288990	Reserves: (Tonnes) Proved (111)-146942 Resources: Indicated Mineral Pre-Feasibility(211):7904 Inferred Resources(331):288990	Reserves position also furnished in Annual Return
1f	General remarks of inspecting officer on geology, exploration etc.	Entire mineralised lease area not been explored fully as per UNFC Guidelines by the lessee in past. Hence, lessee was instructed to propose further exploration to convert G2 & G3 reserves/resources into G1 level of exploration		

2.0 Development

SN	Item	Proposals(2017-18)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Proposed between 570260 E to 570370 E 239300 N to 239450 N	570260 E to 570300 E 239300 N to 239350 N	Deviation observed due less production of 4828MT achieved against proposed target
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate bench height of 3m proposed in mineral No separate bench proposed in Top soil & OB	Working carried out by formation of 3m bench in mineral	There is no O/B or top hence no proposal of separate benches

2c	Stripping ratio or ore to OB ratio	1:000	1:000	No OB in the lease area
2d	Quantity of topsoil generation in m3	Not Proposed	NA	
2e	Quantity of overburden generation in m3	Not Proposed	N.A.	There is no O/B and no any generation of rejects as a result of the mining operations
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Total 5 working pits of following dimensions were reported in approved ROMP for period 2017-18 to 2018-19 Pit No-1 (53m x 51m x 7.75mRL), Pit No-(19m x 25m x 6mRL), Pit No-3 (414m x 325m x 5.16mRL), Pit No-4 (86m x 67m x 7.02mRL), Pit No-5 (214m x 139m x 6.02mRL). Lessee had not reported of all working pits other than of these mentioned pits details		

3.0 Exploitation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for production	Pit No-2 was proposed for production	Production carried out from Pit No-2	
3b	Quantity of ROM mineral production proposed	6000 Mt	5308.990 Mt	Sized limestone was generated /recovered by manual sorting
3c	Recovery of salable/usable mineral from ROM production	85 % of Total ROM 5100 Tone	4828.990 Tone	
3d	Quantity of mineral reject generation	600 MT	480MT	
3e	Grade of mineral reject generation and threshold value declared	Under sized limestone having below -25mm having CaCo3% <90%	Under sized limestone having below -25mm having CaCo3% <90%	
3f	Quantity of sub-grade mineral generation	Not Proposed	NA	--
3g	Grade of sub-grade mineral generation	Not Proposed	NA	--
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Category-A (OTFM)	Mechanised Category-A (OTFM)	Machineries observed
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	DTH Drill with 65/110mm with Air Compressor 450CFM	DTH Drill with 65/110mm with Air Compressor 450CFM	
3k	Provision of mining machineries in mineral benches	Pay loader & Tractor trolley & tipper combination	Achieved by Pay loader & Tractor trolley & tipper combination	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	There is no Overburden in mining area and height of benches in mineral is suitable for method of Mining	3m height is maintained in mineral & there is no OB	
3m	Total area covered under excavation/pits	12.66 Ha.	12.66 Ha.	Working was proposed in already worked out area

3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	No OB encountered in ML area
3o	Total area put in use under different heads at the end of year	Pit- 12.66 Ha. Waste/reject – 0.28 Ha. Others- 0.78 Ha. (Road and Infrastructure)	Pit- 12.66 Ha. Waste/reject – 0.28 Ha. Others- 0.78 Ha. (Road and Infrastructure)	Working was proposed in already worked out area
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2013-14 24000 Mt Yr-2014-15 24000 Mt Yr-2015-16 24000 Mt Yr-2016-17 24000 Mt Yr-2017-18 6000 Mt	Yr-2013-14 145799.865 Yr-2014-15 15196.940 Yr-2015-16 22785.580 Yr-2016-17 21306.920 Yr-2017-18 5308.990	During the year 2017-18 only production proposed from Jan-Mar-18
3q	General remarks of inspecting officer on method of mining etc.	Mechanised open cast working for shallow depth chemical grade limestone by using JCB/Pay loader & tractor with trolley combination with shallow drilling & blasting using jack hammer.		

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)	No Proposals	05 Cum	Used in Plantation work
4b	Location of topsoil, OB & mineral reject dumps	No Proposals	Concurrent use of top soil for plantation purposed	
4c	Number of dumps within lease area and outside lease area	No Proposals	Nil	Only 3 small OB dumps existing in ML area of OB previously generated.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposals	NA	
4e	Number of active & alive dumps	No Proposals	Nil	
4f	Number of dead dumps	No Proposals	03 small OB dumps	
4g	Number of dumps stabilised	No Proposals	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposals	No	
4i	Length of Retaining wall or garland drain all along dump	No Proposals	N.A.	
4j	Number of settling ponds	No Proposals	N.A.	
4k	Specific comments of inspecting officer	Mining lease area is devoid of any sort of OB & top soil and hence maximum items details are not applicable. Only negligible amount of top soil generated being concurrently used for planation purpose.		

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	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	As per proposal	Top soil proposals but as and when encountered being concurrently used for plantation

5d	Total area fully reclaimed & rehabilitated	Not Proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Most of ML area having chemical grade limestone have been mineral exhausted but due to lack of OB reclamation & rehabilitation by backfilling is not feasible.		

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.	To be submitted in stipulated time limit	Yes Submitted within time limit as per the provisions of Rule 26 of MCDR,2018	
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) 0.0 Ha. iii) 00 Nos. iv) 904 (from 2010-11 to 2017-18) v) NA	i) No Provision was Made ii) 0.05 Ha. iii) 200 Nos. iv) 904 (from 2010-11 to 2017-18) v) NA	No satisfactory work done by lessee on afforestation in lease area
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	Not Proposed	Nil	No reclamation is proposed by means of backfilling as no waste material is available.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	Nil	No waste land is available within lease area
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals	Analysis reports were provided
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP report in prescribed form submitted on 12th June 2018 and PMCP works carried out as per the proposals. Due to very less top soil occurrence, survival rate of saplings are very low		

7.0 Mineral Conservation

SN	Item	Proposals (2017-18)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	6000 MT out of which sized Lst-5100MT, 600Min Reject	5308.990 Mt	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	

7c	Different grade of mineral sorted out at mines	Only undersize limestone is available as subgrade mineral and stacked at pit floor	Only undersize limestone is available as subgrade mineral and stacked at pit floor	
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mineral is being conserved by utilizing Sized Limestone of +25mm to -100mm of chemical grade limestone in Soda ash plant having $\geq 92\%$ CaCO ₃ & rest under sized limestone being stacked separately.		

8.0 Environment

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposals	5 Cum	Proposed as concurrent use of top soil for plantation.
8b	Concurrent use or storage of topsoil	Not Proposed	Wherever encountered , concurrently utilized for Plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Within worked out Pit No- 5 covering 0.02Ha	Stacked as per the proposals	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	No OB encountered during the proposed year working
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No Proposals	Nil	Mined out Pits will be utilised as rain water Storage
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	From 2010-11 to 2016-17 total 704 no of plants planted and 435 no survived and in year 2017-18 250 plants were planted and 50 no survived.	From year 2010 - 11 to 2017-18 the total existing plantation is 485	Low survival due to lack of top soil
8g	Survival rate	40 %	Approx. 40 to 45 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent .		

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 - Yes A.R. submitted up to till date- Yes	Annual Return for the year 2017-18 submitted within time limit

S. N.	Item	Details GIVEN	Observation of I/Officer /Actual reported in Returns	Remarks
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		in A.R.(201 7-18)		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Give	Shri Niral P Ravat (Diploma Mining Engg), Shri Mehul D Sharma (Geologist)	Mining Eng was present during inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Covered Under current working- 11.07 Ha Afforestation/ Plantation-1.82 Ha Infrastructure- 0.78 Ha.	During the inspection it was advised to Mine representative to submit the AR & MR correctly for correct cost of production & Ex-mine price as per the guidelines in future.
9d	Scrutiny of Annual return on afforestation	Given	Afforestation/ Plantation-1.82 Ha. Advised for more plantation & more survival rate in ML area	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Given	Sub-grade or Undersize Limestone 10 % of ROM (600 Mt) but generated 480 Mt	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Opening Stock-60029 Despatch-4828 Mt Closing-60509MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Reported	Ex. Mine price Rs.473/- per tonne Cost of production 473/-	
9i	Scrutiny of Annual return on fixed assets	Given	Industrial- Rs-465000 Residential-Rs-2090834	
9k	Scrutiny of Annual return on mining machineries		Pay loader/JCB DTH Drill with 65/110mm with Air Compressor 450CFM	

Details of violations observed during current inspection and compliance position of earlier violation pointed out:-The last inspection of mine was carried out on dtd 29.10.2017 and violations of rules 11(1), 11(4), 33& 55(1)(3) of MCDR,2017 pointed. Present inspection was carried out in connection with evaluation of Star Ratings Templates/MCDR during inspection violation of rules 11(4), 14,35(2), 45(7)(c) &55(1)(c)(i)were pointed out and accordingly violation letter was issued. Under the violation of Rule 45(7)(C) of MCDR,17 discrepancies in respect of Part-II, Part-IV, Part-VI & Part-VII of annual return submitted for the year 2017-18 were pointed out.
