

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	9.31 HA. (Forest Area: Nil) (Non-forest Area: 9.31 HA)
3	Mine code	38GUJ08063
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	27.12.1978
15	Date of Execution	26.12.1979
16	Date of opening of Mine	NA
17	Date of first Renewal, if applicable and its period & expiry	07.12.1998
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	Period extended as per MMDR amendment act 2015 section 8A(5)(6) up to 31/03/2030 Order from Govt. of Gujarat No- MCR-1568-(S-39)-7728 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	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
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule	Sri Mehul D Sharma, Geologist, Saurashtra Chemical, Division of Nirma Ltd.

	55&carrying out their duties as per rule 56&57.	Porbandar
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)(631)/96- MCCM(N)UDP Date – 19/05/1997
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-441)/2008MCDR Udaipur Date- 08/12/2014 (2014-15 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’ (OTFM)
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	5DTH were proposed during plan period & lessee was ensured that the said exploration shall be completed by the end of March-2019.
1b	Exploration over lease area for Geological axis 1 or 2.	5 DTH were proposed during the approved plan period 2014-5 to 2018-19 No Proposals	Area covered under G1 exploration is about 2.88Ha & rest 5.55 Ha falls under G2 & G3 level	Maximum areas under working pits are considered as area explored.
1c	Exploration Agency & Expenditure in lakh Rupees during the year			
1d	Balance area to be explored to bring Geological axis in 1 or 2			
1e	Balance reserves as on 01.04.2018	Reserves: (Tonnes) Proved (111)-210443 (Chemical grade) Resources: Pre-Feasibility(211):53851, Inferred Resources (331):387296 (Cement Grade)	Reserves: (Tonnes) Proved (111)-184275 (Chemical grade) Resources: Feasibility(211):53851 Inferred Resources (331):387296 (Cement Grade)	
1f	General remarks of inspecting officer on geology, exploration etc.	Entire mineralised lase 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 (2017-18)	Remarks
2a	Location of development w.r.t. lease area	Between 109 N to 204 N and 138 E to 232 E	Production not carried as per the proposed locations	Violation of Rule 11(1) was pointed out for this deviation
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	Working carried out by formation of 3m bench in mineral	There is no O/B or top hence no proposal of separate

		&OB		benches in OB
2c	Stripping ratio or ore to OB ratio	1:000	1:000	No OB in the lease area
2d	Quantity of topsoil generation in m ³	Not Proposed	NA	
2e	Quantity of overburden generation in m ³	Not Proposed	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.	There were total 19 working pits of different dimensions were reported in approved ROMP for period 2017-18 to 2018-19. Maximum depth of mineralisation encountered in Pits Nos-1, 9, 15, 16, & 18 as 2.57 to 3.0m. This is shallow depth having chemical grade limestone upto 3 to 3.5m & below that is cement grade limestone.		

3.0 Exploitation

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for production	Working proposed in 2 pits i.e. Pit No 13 and 14	Production carried out as per the proposed locations	
3b	Quantity of ROM mineral production proposed	9519 Mt	7721.935 Mt	
3c	Recovery of salable/usable mineral from ROM production	85 % of RoM 8091 Mt.	7031.935	
3d	Quantity of mineral reject generation	1428 as 15% of ROM	690 MT	
3e	Grade of mineral reject generation and threshold value declared	Under sized limestone having below -25mm having CaCo ₃ % <90%	Under sized limestone having below -25mm having CaCo ₃ % <90%	
3f	Quantity of sub-grade mineral generation	Not Proposed	Mineral reject may be considered as sub-grade	
3g	Grade of sub-grade mineral generation	Not Proposed	Under sized limestone having below -25mm having CaCo ₃ % <90%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Category-A (OTFM)	Mechanised Category-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	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	3.22 Ha 0.144 Mineral Storage	Same as Proposal	
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-2.88 Ha. Mineral Storage –	Pit-3.22 Ha. Mineral Storage –	

		0.144 Road-0.21Others- 0.5 Ha. infrastructure	0.144 Reclaimed/Rehabilitate d-0.650 Others- 0.21 Ha.	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2013-14-9400 Yr-2014-15-9486 Yr-2015-16-9486 Yr-2016-17-9525 Yr-2017-18-9519	Yr-2013-14-3268.920 Yr-2014-15-3533.865 Yr-2015-16-8831.555 Yr-2016-17-6080.175 Yr-2017-18- 7721.935	
3q	General remarks of inspecting officer on method of mining etc.	Semi-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	No OB dumps existing in ML area.
4c	Number of dumps within lease area and outside lease area	No Proposals	Nil	
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	0.65Ha	Previously done
5e	General remarks of inspecting officer on backfilling, reclamation etc	Some of the ML areas 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) N.A. ii) 0.1 Ha iii) 100 Nos iv) No v) No vi)	i) N.A. ii) 0.1 Ha iii) 100 Nos	
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 available	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	No proposal for rehabilitation however undersize material which was generated during sizing will be used for partial backfilling of the voids temporarily	Same as per proposal	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air quality monitoring was done as per CCOM's circular 3/92 during mining.	Ambient Air Monitoring, Water quality monitoring and Noise monitoring is being done on half yearly basis and soil monitoring on yearly basis.	
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 (2017-18)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	9525 Mt	7721.935 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	Only undersize limestone is available as subgrade mineral	

		floor	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 >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	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 proposed to be stacked on pit floor at earmarked site for future use.	Same as proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	Mineral rejected generated stacked in worked out pits on temporary basis	
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)	Plantation was proposed in 0.1 Ha area total sapling is 100	Plantation was done in 0.1 Ha area and total sapling is 200 nos	Low survival due to lack of top soil & water
8g	Survival rate	Not Proposed	20 to 25 %	
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. More emphasis need to be by lessee for maximum plantation in the lease area.		

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 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	Given	Shri Shashi Bhusanprasad (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	Pit-3.22 Ha. Mineral Storage – 0.144 Reclaimed/Rehabilitated- 0.650 Others- 0.21 Ha.	During the inspection it was advised to Mine representative to submit the AR & MR correctly for correct cost of production & Examine price as per the guidelines in future.
9d	Scrutiny of Annual return on afforestation	Given	Plantation was done in 0.1 Ha area and total sapling is 200 nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Given	Mineral reject as undersize Limestone 15 % of ROM production as (1428 Mt) but generated as 690 Mt	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Chemical grade limestone: Opening Stock-18338 Despatch-7031 Mt Closing-19028MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Given	Ex. Mine price Rs. 473/- per tonne Cost of production on 473/-	
9i	Scrutiny of Annual return on fixed assets	Given	Industrial -465000 Residential-2090834	
9k	Scrutiny of Annual return on mining machineries	On Hire	On Hire basis 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 01.11.2017 and violations of rules 11(1), 33& 55(1)(3) of MCDR,2017 were pointed out. Present inspection was carried out in connection with evaluation of Star Ratings Templates/MCDR inspection. During inspection violation of rules 11(1), 14, 45(7)(c) & 54(a) were pointed out and accordingly violation letter was issued. Under the violation of Rule 45(7)(C) of MCDR,17 discrepancies in Part-II, Part-VI & Part-VII were pointed out in respect of annual return submitted for the year 2017-18
