

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1 (a)	Name of the Mine	Bhod Limestone Mine
1 (b)	Name of Inspecting officer & Designation	G. Ram, DCOM
1(c)	Accomp.official	Sh. DK Singh ,MM
1(d)	Date & Type of Inspection	17.11.2022 FN & Star Rating
2	Total Lease Area (Ha Non-forest and forest land)	71.52 Ha., Forest Land – Nil
3	Mine code	38GUJ08026
4	IBM Reg. Number under rule 45 of MCDR,17	IBM/265/2011 M/s Nirma Ltd
5	Name of the lessee, Address, phone, email and fax number	Saurashtra Chemicals, Division of NIRMA Ltd. Birla Sagar, Porbandar Gujarat 360576
6	Village	Bhod
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pin code	360576
10	State	Gujarat
11	Post office	Ranavav
12	Nearest police station	Ranavav
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	12/11/1979
15	Date of Execution	12/11/1979
16	Date of opening of Mine	NA
17	Date of first Renewal, if applicable, period & expiry	11/11/1998
18	Date of second Renewal, if app. period & expiry	N.A.
19	Date of submission of renewal application if Mining Operations are continuing	Period extended as per MMDR amendment act 2015 up to 31/03/2030 as Captive used. MCR-1568-(S-11)-3742 Chh. Date-02/02/2018
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Shailesh V. Sonara, Saurashtra Chemicals, Division of NIRMA Ltd, Birla Sagar, Porbandar Gujarat 360576
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Manish D Patel, Mines Agent., Saurashtra Chemical, Division of Nirma Ltd.Porbandar
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri D.K.Singh,,Saurashtra Chemicals, Division of NIRMA Ltd. Birla Sagar, Porbandar Gujarat 360576, WEF-01.12.2017
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Agnivesh Singh Rathore, BE(Mining) Saurashtra Chemicals, Division of NIRMA Ltd. Birla Sagar, Porbandar Gujarat 360576, WEF-18.10.2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule	Sri Mehul Sharma, Geologist, Saurashtra Chemical, Division of Nirma Ltd. Porbandar, WEF-01.4.2022
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)(327)/92- MCCM(N)UDP, Date - 12.10.1993
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-243/19 MCDR(U)/GNR Dt-. 16.10.2019 (2019-20 to 2023-24)
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (FM, OTFM, Manual)	'A'
30	Captive/Non Captive	Captive

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

1.0 Exploration

SN	Item	Proposals 2021-22	Actual work	Remarks
1a	Backlog of previous year	28 borehole proposed	28 done	DTH borehole done
1b	Exploration over lease area for Geological axis 1 or 2.	---	Entire ML area is in G1/G2	NA
1c	Exploration Agency & Exp. in lakh Rupees during year	Lessee itself		
1d	Balance area to be explored to bring G-axis in 1 or 2	Not Proposed	NIL	NIL
1e	Balance reserves as on 01.4.2022	3.08654 million tonne		
1f	General remarks of inspecting officer	Entire lease area is developed by various pits & explored in past by drilling in G1/G2 level.		

2.0 Development

SN	Item	Proposals 2021-22	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit No.1,6 as earmarked in plate No.5C	Legging in proposed ROM production	
2b	Separate benches in topsoil, OB and mineral	Not Proposed	Maintained separately	
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.00	
2d	Quantity of topsoil generation in m3	NIL	0T	
2e	Quantity of overburden generation in m3	NIL	0T	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Lease area developed by mining pits, Limestone is used for captive soda ash & cement plant.		

3.0 Exploitation

SN	Item	Proposals 2021-22	Actual work	Remarks
3a	Number of pits proposed for production	Pit No.1,6	Pit No.1,6	
3b	Quantity of ROM production proposed	400000T	159533.715T	
3c	Recovery of saleable/usable mineral from ROM	320000T	111533.715T	
3d	Quantity of mineral reject generation	80000T	48000T	
3e	Grade of mineral reject generation and THV	THV-Cao-34%(Min) & Mgo-5% (Max)		
3f	Quantity of sub-grade mineral generation	Not proposed	NIL	
3g	Grade of sub-grade mineral generation	Not Proposed	NIL	
3h	Manual / Mechanised method adopted	Manual / mech.	Both	
3i	Any analysis or beneficiation study proposed	Not Proposed	Not done	-
3j	Provision of drilling & blasting in benches	as and when requires	As proposed	-
3k	Provision of mining machineries in benches	Excavator-& Tippers	Excavator & Tippers	
3l	Whether height of benches suitable for method	As proposed	Irregular bench height	
3m	Total area covered under excavation/pits	14.9342 Ha	About-58.392 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.0	1:0.0	
3o	Total area put in use under different heads	--	Pit-58.392, Plantation-6.020 Inf.-2.140, other-6.465	
3p	Production of ROM mineral during last five-year period, as applicable (2022-23 till Oct'22)	2018-19 400000 2019-20- 400000 2020-21- 400000 2021-22- 400000 2022-23- 400000	2018-19 360783.000 2019-20 257721.665 2020-21-162107.74 2021-22-159533.715 2022-23-105779 (Oct,22)	Deviated due to lagging in ROM
3q	General remarks of IO on method of mining etc.	Mech. O/C method with using HEMM & tipper combination		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals 2021-22	Actual work	Remarks
4a	Separate dumping of topsoil, OB/Mineral reject	for plantation purposes	not reported /generated	No OB/Waste proposed & generated.
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	NIL	
4c	Number of dumps within lease area and outside	None	None	
4d	Location of dumps w.r.t. ultimate pit limit	Not applicable	Not applicable	
4e	Number of active & alive dumps	No proposal	Not applicable	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Not applicable	NIL	
4h	Whether Retaining wall or garland drain there	NIL	NIL	
4i	Length of Retaining wall or garland drain	Not applicable	NIL	
4j	Number of settling ponds	Not proposed	NIL	
4k	Specific comments of inspecting officer	No OB/waste is generated presently. Topsoil is used for plantation.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals 2021-22	Actual work	Remarks
5a	Status on part or full extraction of mineral	Not proposed	NIL	
5b	Area under backfilling of mined out area	--	-	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Not proposed	NIL	
5d	Total area fully reclaimed & rehabilitated	Nil	---	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	There are no OB/Waste generation. Hence no backfilling & reclamation proposed & not carried out.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals 2021-22	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26 (2).	Proposed	Submitted on 13.6.2022	
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	-- 0.5 hect 500 --	-- 0.5Hect. 1500 Nos.,50% 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 etc.	Not Proposed	NIL	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not proposed	Not done	
6e	Compliance of Environmental monitoring		done	
6f	General remarks of IO on PMCP compliance & progressive	PMCP report is submitted with in stipulated time.		

7.0 Mineral Conservation

SN	Item	Proposals 2021-22	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting	400000T	159533.715T	
7b	Method of grade-wise sorting i.e. manual or mech.	Manual & Mech.	Manual & Mec.	
7c	Different grade of mineral sorted out at mines	sorting & sizing	Yes	
7d	Any beneficiation process at mine	Not required	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Lessee is utilizing entire ROM by proper stacking, sorting & sizing as per plant requirement.		

8.0 Environment

SN	Item	Proposals 2021-22	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Proposed	Utilising for plantation	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for OB, waste rock, rejects, fines	NA	NA	
8d	Use of OB, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation & rehabilitation of lands affected by mining operations	No proposal	Nil	
8f	Baseline information on existence of plantation	No proposal	Utilising for plantation	
8g	Survival rate		About 55%	
8h	Water sprinkling on roads to control airborne dust	proposed	Regular doing.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mines area is degraded mining pits & natural grown shrubs & bushes observed.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	M.R. & A.R. submitted with in time for the year 2021-22 (04/06/2022)		
S.N	Item	Details GIVEN in A.R. /Observation of I/O		Remarks
9b	Scrutiny of AR for information on ME, Geologist & Manager	Details as per given in AR	Sh. Agnivesh Singh Rathore, BE (Mi), Mehul Sharma, MSc (Geology)	
9c	Scrutiny of AR on land use pattern for area under pits, reclaimed, dumps etc.		Pit-58.392, Plantation-6.020 Inf.-2.140, other-6.465	
9d	Scrutiny of Annual return -afforestation		No of trees: 2900, survival-80%	
9e	Scrutiny of AR on mineral reject generation		There is no mineral rejects generaed	
9f	Scrutiny of AR on ROM stock, graded ore		Chem- O/S-284223.54T, Dispatch-111533.71T C/S-332223.54 t	
9g	Scrutiny of AR on sale value, Ex. Mine price & production cost		Ex. Mine price-390.60Rs. /T (Chemical), Captive used	
9i	Scrutiny of Annual return on fixed assets		As per given in AR	
9k	Scrutiny of Annual return on mining machineries		Excavator, loader Tipper, water tanker, Air compressor	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-Presently mine was inspected for MCDR/Star Rating & Online star rating evaluation done (4Star). Presently no significant violation observed & pointed out.