

MCDR Report

SN	Particulars	Details
1	Name of the Mine	Patan Limestone Mine
1a.	Name of Inspecting Officer	Naman Ekka, SMG
1b.	Name of accompanying Officer	Sh. Subhas Chandra Adhikari, Mining Engineer
1c.	Date of Inspection /Type of Inspection	18/07/2024 / Star Rating
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non forest- 911.4145 Ha Forest- Nil
3	Mine code	38GUJ07092
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/265/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. Nirma Limited, Nirma house, Ashram road, near income tax office, Ahmedabad-3800 009, Ph.- 07927546565, Fax-07927546603, email-mines@nirma.co.in
	The Mine Address	Patan Limestone mine
6	Village	Patan
7	Taluka/Mandal	Jamjodhpur
8	District	Jamnagar
9	Pin code	360530
10	State	Gujarat
11	Post office	Patan
12	Nearest police station	Jamjodhpur
13	Nearest Railway station	Jamjodhpur
14	Date of Grant of Mining Lease	31-05-2016, Valid up to 18-10-2066.
15	Date of Execution	19-10-2016
16	Date of opening of Mine	06-12-2016
17	Approved Mining Plan till Date, if applicable and its period & expiry	1) Letter No. 682 (23) (568)/2007 MCCM (N) UDP, dated: 06-03-2008 Period 05 years. Expiry -2020-21. 2) Letter No. 684(4)(1) / MP-323/2020-21-GNR, Dated: 18-03-2021 Period 05 years. Expiry -2025-26.
18	Date of second Renewal, if applicable and its period & expiry	N.A.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sh. Shailesh V. Sonara, Nirma house, Ashram road, near income tax office, Ahmedabad-3800 009.
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sh. Ashwinbhai Patel, Nirma Limited, Chemical complex, Kalatalav, Bhavnagar—364313.
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sh. Subhas Chandra Adhikari.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shr. Vejanand Suva, B.E. Mining Engineering,
24	Whether Geologist and Mining	Yes, Shri. Samrath Rathore

	Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	
25	Mineral(s) granted in lease and proved for mining	Limestone
26	Method of Mining (Opencast, Underground)	Opencast
27	Category (Fully Mechanised, Others or Manual)	Category A – OTFM
28	Captive/Non-Captive	Captive

Scientific Mining:

Compliance of proposals of approved mining plan/scheme of mining. –

Exploration

SN	Item	Proposals (2023-24)	Actual work(2023-24)	Remarks
1a	Backlog of previous year	No Proposal	No work carried out	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	No work carried out	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	No work carried out	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	No work carried out	
1e	Balance reserves in Ton	24.667 million Tonnes	24.800 million Tonnes	Up to 31.03.2024
1f	General remarks of inspecting officer on geology, exploration etc.	As reported during Inspection in some parts of the lease area while drilling BH Rhyolite has been encountered, entire area has been explored out of which Non Mineralized area is 431.1345 Ha. explored in G2 and Mineralised area 480.350 Ha. has been explored in G1 Category		

2.0 Development

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	PIT 12, PIT 18, PIT 19, PIT 21, PIT 22, PIT 24, PIT 25	<p>Development of Pits has been carried out in following Pits – PIT 12, PIT 18, PIT 19, PIT 22, PIT 24, PIT 25.</p> <p><u>outside pit boundary of PIT 25</u> PIT Size – nearly 0.19 Ha.</p> <p><u>Out side PIT 24 - boundary of PIT 25</u> PIT Size – nearly 0.19 Ha.</p> <p><u>Out side PIT 24 -</u> PIT Size – nearly 0.54 Ha.</p> <p><u>Out side PIT 22</u> PIT Size – nearly 0.12 Ha.</p>	<p>Violation of Rule 11(1), Mining has been carried out <u>outside pit boundary of PIT 25</u> PIT Size – nearly 0.19 Ha.</p> <p><u>Out side PIT 24 -</u> PIT Size – nearly 0.54 Ha.</p> <p><u>Out side PIT 22</u> PIT Size – nearly 0.12 Ha.</p>

2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	No work carried out	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	No Proposal	200	
2e	Quantity of overburden generation in m3	No Proposal	No work carried out	

3.0 **Exploitation**

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	7	6	From PIT 21 no production has been carried out.
3b	Quantity of ROM mineral production proposed (in Ton)	300000	299884.630	
3c	Recovery of saleable/unsaleable mineral from ROM production	240000	243384.630	
3d	Quantity of mineral reject generation	No Proposal	No work carried out	
3e	Grade of mineral reject generation and threshold value declared	No Proposal	No work carried out	
3f	Quantity of sub-grade mineral generation	60000	56500	
3g	Grade of sub-grade mineral generation	Undersize Limestone (chemical Grade)	Undersize Limestone (chemical Grade)	
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	No Proposal	No work carried out	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
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 bench height is proposed in mineral bench is 3 meter	There is no overburden in mining area and bench height is 3 meter in mineral bench	
3m	Total area covered under excavation/pits	56.713 (up to 2025-26)	Nearly 54.04 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	
3o	Total area put in use	74.99 Ha.	72.99 Ha	

	under different heads at the end of year				
3p	Production of ROM mineral during last five-year period, as applicable	2019-20	360000	2019-20	232183.358
		2020-21	360000	2020-21	267255.306
		2021-22	300000	2021-22	217455.877
		2022-23	300000	2022-23	257320.310
		2023-24	300000	2023-24	299884.630
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is opencast, without drilling and blasting.			

4.0 Solid Waste Management-Dumping

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	No work carried out	
4b	Location of topsoil, OB & mineral reject dumps	No Proposal	No work carried out	
4c	Number of dumps within lease area and outside lease area	No Proposal	No work carried out	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	No work carried out	
4e	Number of active & alive dumps	No Proposal	No work carried out	
4f	Number of dead dumps	No Proposal	No work carried out	
4g	Number of dumps stabilised	No Proposal	No work carried out	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	No work carried out	
4i	Length of Retaining wall or garland drain all along dump	No Proposal	No work carried out	
4j	Number of settling ponds	No Proposal	No work carried out	
4k	Specific comments of inspecting officer	No Solid Waste generated, only undersize limestone of chemical grade is generated.		

5.0 Solid Waste Management-Backfilling

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposal	No work carried out	
5b	Area under backfilling of mined out area (yearly and cumulative)	No Proposal	No work carried out	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Use in plantation	No work carried out	
5d	Total area fully reclaimed & rehabilitated	No Proposal	No work carried out	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No Backfilling done by solid waste, as no solid waste generated while mining.		

6.0 Progressive Mine Closure Plan

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2).	Yes	PMCP submitted with AR on 29/06/2024	
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	No Proposal	No work carried out	
6c	Compliance on reclamation and rehabilitation by backfilling i) Total cumulative Mined out area already reclaimed by means of backfilling (in hect) at the end of financial year ii) Afforestation on the backfilled area iii) Rehabilitation by making water reservoir iv) Any other specific means	No Proposal	No work carried out	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 1000 Nos. ii) 1.0 Ha. iii) -	i) 100 0 Nos . ii) 1.0 Ha. iii) - Survival rate 90%	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Ambient air monitoring, water quality monitoring and noise monitoring	Ambient air monitoring, water quality monitoring and noise monitoring	
6f	Other (specify) : Fencing (m)	487 m	500 m	
6g	General remarks of inspecting officer on PMCP compliance & progressive	PMCP Compliance has been carried out as per proposal		

7.0 Mineral Conservation

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	300000	ROM Prod.- 299884.630 tonnes	
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 and stacked at pit floor.	Only undersize limestone is available and stacked at pit floor.	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Only undersize limestone is available and stacked at pit floor.		

8.0 Environment

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Used in plantation	Used in plantation	
8b	Concurrent use or storage of topsoil	Storage and utilisation	Storage and utilisation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	No work carried out	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	No Proposal	No work carried out	
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)	1000 Nos.	1000 Nos.	
8g	Survival rate	70 %	90 %	
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 regularly through water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Mines is surrounded by local shrubs and trees , Plantation work has been carried out by the Lessee.		

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9.0 Compliance of Rule 45

S.N	Item	COMMENTS		
1.	Status of submission of Monthly and Annual returns	M.R. Submitted regularly and June M.R. submitted on dated 07.07.2024. A.R. of 2023-24 on dated 29.06.2024.		
S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sh. Vejanand Suva (Mining Engineer), Sh. Samrath Rathore (Geologist)	Sh. Vejanand Suva (Mining Engineer), Sh. Samrath Rathore (Geologist)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current working – 54.040 ha.	Covered under current working – 54.040 ha.	
9d	Scrutiny of Annual return on afforestation	Afforestation/plantation - 11 Ha.	Afforestation/plantation - 11 Ha.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	undersize chemical grade limestone 60000 MT	55777 MT as reported in Chemical Grade during the Year 2023-24	Cumulative till 2023-24 - 253007.751 MT
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM – Production - 299884.630 MT Grade wise – Chemical Grade – Production 299884.630 MT Despatches – 244107.310 Closing Stock – 253007.751	ROM – Production - 299884.630 MT Grade wise – Chemical Grade – Production 299884.630 MT Despatches – 244107.310 Closing Stock – 253007.751	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	1. Ex-mine prise Rs.426.51 per te 2. Cost of production Rs. 426.51 per te	1. Ex-mine prise Rs.426.51 per te 2. Cost of production Rs. 426.51 per te Domestic Sale Reported for Quantity – 722.710 with sale value – 295538.00 @ Rs. - 408.930/ tons	Reported for Domestic Sale and Captive consumption
9i	Scrutiny of Annual return on fixed assets	Industrial- 277496/- Residential- 1187415/-	Industrial- 277496/- Residential- 1187415/-	
9k	Scrutiny of Annual return on mining machineries	BACK HOE JEEP/TRACTOR WATER TANKER	BACK HOE JEEP/TRACTOR WATER TANKER	

		AIR COMPRESSOR EXPLOSIVE VAN	AIR COMPRESSOR EXPLOSIVE VAN DUMPER WATER TANKER	
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10- Details of violations observed during current inspection:- 11(1) of MCDR 2017

Signed by Naman Ekka

Date: 19-12-2024 10:50:30

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