

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Bharwada Limestone Mines
1(b)	Name of inspecting officer & Designation	Shri Pushpender Gaur (Regional controller of Mines)
1(c)	Accompanying Mines Representatives	Mr. D.K.Singh
1 (d)	Type of Inspection	Star Rating
1 (e)	Date of Inspection	19-12-2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	20.94 HA. (Forest Area: Nil) (Non-forest Area: 20.94 HA)
3	Minecode	38GUJ21029
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/265/2011
5	Name of the lessee, Address, phone, email and fax number	Saurashtra Chemical, Division of Nirma Ltd. Porbandar
6	Village	Bharwada
7	Taluka/Mandal	Porbandar
8	District	Porbandar
9	Pincode	360560
10	State	Gujarat
11	Post office	Bharwada
12	Nearest police station	Porbandar
13	Nearest Railway station	Porbandar
14	Date of Grant of Mining Lease	01.03.1966
15	Date of Execution	30.03.1967
16	Date of opening of Mine	-
17	Date of first Renewal, if applicable and its period & expiry	-
18	Date of second Renewal, if applicable and its period & expiry	-
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	Shri Ashish K Desai, Whole time Director, Saurashtra Chemical, Division of Nirma Ltd. Porbandar
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri 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	Sri Gautam Makwana, Mines Manager, Saurashtra Chemical, Division of Nirma Ltd. Porbandar
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Gautam Makwana, (Mining Engineer) Saurashtra Chemical, Division of Nirma Ltd. Porbandar

24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Sri Mehul Sharma, Geologist, Saurashtra Chemical, Division of Nirma Ltd. Porbandar
25	Date of Approval of Mining Plan/Modified Mining Plan/Review of mining plan with five-year period and specific condition in approval letter, if any.	Letter No. 684(4)(1)/mp-382(90)/2021-22 MCDR(U)/GNR Dt-. 24.02.22 (2022-23 to 2026-27)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
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 (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	Nil	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	13 bore holes, 65m-130m	15 bore holes, 61m	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	N.A.	
1e	Balance reserves as on 01.04.2024...	UNFC Codes: 111- 102559 Tonnes, 121- 47040 Tonnes, 222- 225008 Tonnes, 333- 63112 Tonnes, 334- 463785 Tonnes Total resources- 999,700 Tonnes		
1f	General remarks of inspecting officer on geology, exploration etc.	Reserves and Resources given in Annual Return are not matching with the mining Plan. The necessary notices as per Form I has not been submitted by the Lease holder as per Rule 47. Hence violation of Rule 47 is found.		

2.0 Development

SN	Item	Proposals(2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Bench 1 of Pit No. 03, in east direction.	Pit no. 03	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	Not Applicable	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	No Proposal	Not Applicable	
2e	Quantity of overburden generation in m3	No Proposal	Not Applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mine was not operational during inspection. Old pits with shallow depth observed. Fresh excavation at only one location observed.		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	01, Bench 1 of Pit No. 03, in east direction.	01	
3b	Quantity of ROM mineral production proposed	9400 Tonne	24.400 T	
3c	Recovery of saleable/usable mineral from ROM production	8460 Tonne	24.400 T	
3d	Quantity of mineral reject generation	940 T	Nil	
3e	Grade of mineral reject generation and threshold value declared	Ca0: <51%	Nil	
3f	Quantity of sub-grade mineral generation	No Proposal	Not Applicable	
3g	Grade of sub-grade mineral generation	No Proposal	Not Applicable	
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	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	No Proposal	Not Applicable	
3k	Provision of mining machineries in mineral benches	Shovel (Hydraulic), Dumper	Shovel (Hydraulic), Dumper	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No Overburden In Mineral, bench height- 1.5m and bench width- 6m	Height- 1.5 Width-6m in minerals.	
3m	Total area covered under excavation/pits	-	2.804 ha	
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-2.874 ha Mineral storage-0.015 ha Roads-0.390 ha	Pit-2.804 ha Waste disposal- 0.017 ha Roads-0.390 ha Remaining area- 17.731 ha	
3p	Production of ROM mineral during last five-year period, as applicable in Tonne	Yr-2019-20- 9400 Yr-2020-21- 9400 Yr- 2021-22 – 9400 Yr- 2022-23 - 9400 Yr- 2023-24 - 9400	Yr-2019-20- 00.00 Yr-2020-21- 00.00 Yr-2021-22- 904.595 Yr-2022-23- 00 Yr-2023-24- 24.400	
3q	General remarks of inspecting officer on method of mining etc.	Production is under proposal. Method of working is Shovel and Dumper combination.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	Not Applicable	
4b	Location of topsoil, OB & mineral reject dumps	No Proposal	Not Applicable	

4c	Number of dumps within lease area and outside lease area	No Proposal	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Not Applicable	
4e	Number of active & alive dumps	No Proposal	Not Applicable	
4f	Number of dead dumps	No Proposal	Not Applicable	
4g	Number of dumps stabilised	No Proposal	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	No Proposal	Not Applicable	
4j	Number of settling ponds	No Proposal	Not Applicable	
4k	Specific comments of inspecting officer	There is no proposal for Solid Waste Management.		

5.0 Solid Waste Management-Backfilling

SN	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	Not Applicable	
5b	Area under backfilling of mined out area	No Proposal	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	No Proposal	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	There is no proposal for backfilling.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20.	Yes	Yes, submitted along with Annual Return.	
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, along boundary pillar K-L-M iii) 100 Nos Survival rate- 60 %	i) N.A. ii) 0.0 Ha iii) 00 Nos	Plantation has not been done, hence violation of Rule 11(1) is found.
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings	No Proposal	Not Applicable	

	iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means			
--	--------------------------------------------------------------------------------------------------------------------------	--	--	--

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal	Not Applicable	
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 is being done on half yearly basis and soil monitoring on yearly basis.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Plantation has not been done, hence violation of Rule 11(1) is found.		

7.0 Mineral Conservation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	9400 MT	24.400 Tonne	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposal	Not Applicable	Only Chemical grade
7c	Different grade of mineral sorted out at mines	No Proposal	Not Applicable	
7d	Any beneficiation process at mines	No Proposal	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The mine has no beneficiation issues. Negligible production w.r.t. proposal.		

8.0 Environment

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Not Applicable	
8b	Concurrent use or storage of topsoil	No Proposal	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Not Applicable	
8e	Phased restoration, reclamation	No Proposal	Not Applicable	

	and rehabilitation of lands affected by mining operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No. of saplings planted during the year 100.	Plantation has not been done in 2023-24. Cumulative no. of plants- 200	
8g	Survival rate	60 %	Plantation not done	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on road will be done through water tanker	Water sprinkling done through water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around the mine is satisfactory.		

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 –up to Dec-2024-06.01.2025 A.R. submitted up to till date- up to 2023-24-13.06.2024	

S.N	Item	Details GIVEN in A.R. (2023-24)	Observation of I/Officer / Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Gautam Makwana (Mining Eng) Shri Mehul Sharma (Geologist) Shri Gautam Makwana (Mine manager)		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-2.804 ha Waste disposal-0.017 ha Roads-0.390 ha Remaining area-17.731 ha		
9d	Scrutiny of Annual return on afforestation	Plantation has not been done in 2023-24. Cumulative no. of plants- 200		Rule 11(1) is violated.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM O/S and C/S- Nil Chemical grade: O/S- 22 MT, C/S- 22 T Production- 24.400 T, Dispatch- 24.400 T	ROM O/S and C/S both are reported as Nil whereas 224.40 Tonnes Grade wise productions are reported. Total balance Reserves and Remaining Resources reported in Part-V at point-2 of Annual Return 2022 -23 are not	Rule 45(5) (c) is violated.

			matching with Total Reserves and Remaining Resources at beginning of Annual return 2023-24.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value- Nil EMP- Rs.423.60/- per tonne Cost of production 423.60/- per tonne		
9i	Scrutiny of Annual return on fixed assets	Nil		
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic), Dumper		Water tanker not reported

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

- a. No violations were pointed out during last inspection.
- b. The Drone data has been submitted on 28-06-2024.
- c. Self-assessment date of Star Rating is 29-06-2024 and Rating given the Lessee is 4. It has been evaluated and given 3 Star.
- d. For current year inspection violation has been found under Rules 11(1), 47 and 45(5) (c).

Pushpender Gaur

Regional Controller of Mines

Indian Bureau of Mines