

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Bhod Limestone Mines
1(b)	Name of inspecting officer & Designation	Shri Naman Ekka, (Sr. Geologist, IBM)
1(c)	Accompanying Mines Representatives	Mr D.K.Singh
1 (d)	Type of Inspection	Mining Plan/Star rating/MCDR
1 (e)	Date of Inspection	05.11.2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	71.52 HA. (Forest Area: Nil) (Non-forest Area: 71.52 HA)
3	Minecode	38GUJ08026
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 Chemical, Division of Nirma Ltd. Porbandar
6	Village	Bhod
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pincode	360560
10	State	Gujarat
11	Post office	Bhod
12	Nearest police station	Ranavav, Porbandar
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	19.09.1964
15	Date of Execution	12.11.1979
16	Date of opening of Mine	
17	Date of first Renewal, if applicable and its period & expiry	11.11.1998
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	Period extended as per MMDR amendment act 2015 section 8A(5)(6) up to 31/03/2030 and execute supplementary deed accordingly.
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. Porbandar
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	Sri Sandip Shrivastav, Mines Manager,

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	Manager with Address, phone, email, fax number and date of appointment in mines	Saurashtra Chemical, Division of Nirma Ltd. Porbandar
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23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Sandeep Srivastava 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 Govind Khatri, 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-243/19 MCDR(U)/GNR Dt- 16.10.2019 (2019-20 to 2023-24)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NO
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 (2022-23)	Actual work (2022-23)	Remarks
1a	Backlog of previous year	N.A.	N.A.	
1b	Exploration over lease area for Geological axis 1 or 2.	N.A.	21	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	N.A.	In-house	
1d	Balance area to be explored to bring Geological axis in 1 or 2	N.A.		
1e	Balance reserves as on 01.04.2023...	28,81,428 MT (As per UNFC 111,121 and 122) as per mining plan as on 01.04.2023	28,81,428 MT (As per UNFC 111,121 and 122) as per mining plan	

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			as on 01.04.2023	
1f	General remarks of inspecting officer on geology, exploration etc.	As reported Area has been explored in past by Drilling BH		

2.0 Development

SN	Item	Proposals(2022-23)	Actual work (2022-23)	Remarks
2a	Location of development w.r.t. lease area	Northing 239842 to 2398810 Easting 581807 to 582216	Northing 239842 to 239880 Easting 581825 to 582190	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	N.A.	N.A.	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	10	10	
2e	Quantity of overburden generation in m3	N.A.	N.A.	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of pits has carried out as per proposal by separate benches in Top Soil and Mineral		

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	400000	205075.925	
3c	Recovery of salable/usable mineral from ROM production	360000	122075.925	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and threshold value declared	N.A.,	N.A.	
3f	Quantity of sub-grade mineral generation	40000	83000	
3g	Grade of sub-grade mineral generation	Undersize Chemical Grade Limestone	Undersize Chemical Grade Limestone	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or	N.A.	N.A.	

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	beneficiation study proposed & carried out for sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Yes	No	
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 height of benches in mineral is suitable for method of Mining proposed in RMP	There is no Overburden in mining area and height of benches in mineral is suitable for method of Mining proposed in RMP	
3m	Total area covered under excavation/pits	58.992 Ha	58.992 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-58.992 Plantation-1.540 Infrastructure-2.140 Remaining area-6.465		As per annual return
3p	Production of ROM mineral during last five-year period, as applicable	Yr 2018-19 400000 Yr-2019-20- 400000 Yr-2020-21- 400000 Yr- 2021-22 – 400000 Yr -2022-23 - 400000	Yr-2018-19 360783.000 Yr-2019-20 257721.665 Yr-2020-21- 162107.740 Yr-2021-22- 159533.715 Yr-2022-23- 205075.925	
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is Opencast. No Drilling and blasting is being carried out.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)			
4b	Location of topsoil, OB & mineral reject dumps	N.A.	Undersize Limestone stacked at pit floor	
4c	Number of dumps within lease area and outside lease area	NIL	Nil	

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N.A.	N.A.	
4e	Number of active & alive dumps	N.A.	N.A.	
4f	Number of dead dumps	N.A.	N.A.	
4g	Number of dumps stabilised	N.A.	N.A.	
4h	Whether Retaining wall or garland drain all along dumps are there	NO	NO	
4i	Length of Retaining wall or garland drain all along dump	N.A.	N.A.	
4j	Number of settling ponds	N.A.	N.A.	
4k	Specific comments of inspecting officer	As reported No Solid waste generated.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Partial	Partial	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Plantation	Plantation	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No Back filling of the Mine has been carried out.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	Actual work (2022-23)	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	
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	i) N.A. ii) 0.5 Ha iii) 500 nos iv) No v) No vi)	i) N.A. ii) 0.5 Ha iii) 950 Nos	

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	plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year			
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	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No waste Land is available within lease area	No waste Land is available within lease area	
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 quarterly/half yearly basis and soil monitoring on yearly basis by third party CCS.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP as per Proposals has been carried out.		

7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	400000	205075.925	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	

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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	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No Beneficiation issue reported.		

8.0 Environment

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	N.A.	
8b	Concurrent use or storage of topsoil	Plantation	Plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	No Proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	N.A.	N.A.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out pits will be utilized as rain water storage	Pits are being used for rain water harvesting	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	500	950	
8g	Survival rate	100 %	50 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on road will be done through water tanker	Water sprinkling on road will be done through water tanker	
8i	General remarks of	Mines is surrounded by Little to no Vegetation.		

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inspecting officer on aesthetic beauty in and around mines are	
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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 Oct-2023-03.11.2023 A.R. submitted up to till date- up to 2022-23-22.06.2023		
S. N.	Item	Details GIVEN in A.R. (2022-23)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Sarman Vala (Mining Engg) Shri Govind Khatri (Geologist) Shri Sandeep Shrivastav (Mine manager)		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered Under Current working- 58.992 Ha/ Afforestation/ plantation -6.020 Ha	Covered Under Current working- 58.992 Ha/ Afforestation/ plantation -6.020 Ha	
9d	Scrutiny of Annual return on afforestation	Afforestation/ plantation -6.020 Ha	Afforestation/ plantation -6.020 Ha	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Subgrade or Undersize Limestone 10 % of ROM (40000 Mt)	83000 Mt	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	400000 Mt	205075.925 Mt	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	1) Ex.Mine Prise Rs.412.60/- per tonne 2) Cost of production 412.60/- per tonne	1) Ex. Mine prise Rs. 412.60/- per tonne 2) Cost of production on 412.60/-	
9i	Scrutiny of Annual return on fixed assets	Industrial -63268 Residential-59282	Industrial -63268 Residential-59282	
9k	Scrutiny of Annual return on mining machineries	On Hire	On Hire	

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10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- 11(1), 45(5)(c) Read with 45(7)

Naman Ekka
SMG