

MCDR-MiFLOLST/226/2022-GNR-IBM_RO_GNR

MCDR REPORT

(STAR RATING INSPECTION REPORT 2022-23)

I/5090/2023

GENERAL

SN	Particulars	Details
1	Name of the Mine	Zinzarka Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	24.28 Ha (Non-Forest Area- 24.28 Ha, Forest Area- Nil)
3	Mine code	38GUJ21051
4	IBM Registration Number under rule 45 of MCDR, 2017	IBM/265/2011
5	Name of the lessee, Address, phone, email and fax number	M/S Saurashtra Chemicals Division of Nirma Ltd, Birla Sagar, Porbandar-360576, Phone No: 0286 2242479/80/81, Fax-0286 2245431, quarry_pbr@nirma.co.in
6	Village	Boricha
7	Taluka/Mandal	Porbandar
8	District	Porbandar
9	Pin-code	360545
10	State	Gujarat
11	Post office	Boricha
12	Nearest police station	Bagvadar
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	30.11.1985
15	Date of Execution	08.06.1988 for 20 year
16	Date of opening of Mine	05.03.2022
17	Date of first Renewal, if applicable and its period & expiry	Lease was transferred vide Govt.of Gujarat order no: MCR-1589(S-54)-2164-CHH dated 24.11.1992
18	Date of second Renewal, if applicable and its period & expiry	Lease was extended up to 07.06.2038 vide order no: MCR/1589(S-34)2164/CHH dated 02.07.2020 of IMD Govt. of Gujarat
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	Shailesh V Sonara, Nirma Ltd, Nirma House, Ashram Road, Ahmedabad Phone No: 079 27546222, Fax-079 27546603, Email: mines@nirma.co.in
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Manish D Patel, M/S Saurashtra Chemicals Division of Nirma Ltd, Birla Sagar, Porbandar-360576, Phone No: 0286 2242479/80/81, Fax-0286 2245431, quarry_pbr@nirma.co.in
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Rakesh P Patel M/S Saurashtra Chemicals Division of Nirma Ltd, Birla Sagar, Porbandar-360576, Phone No: 0286 2242479/80/81, Fax-0286 2245431, quarry_pbr@nirma.co.in
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Agnivesh Singh Rathor, B.E.Mining Engg., M/S Saurashtra Chemicals Division of Nirma Ltd, Birla Sagar, Porbandar-360576, Phone No: 0286 2242479/80/81, Fax-0286 2245431, quarry_pbr@nirma.co.in, Date of appointment:05.03.2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	17.06.2019 2019-20 to 2022-23
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	N.A
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast

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29	Category (Fully Mechanised, Others or Manual)	A
30	Captive/Non Captive	Captive

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

1.0 Exploration

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
1a	Backlog of previous year	No Proposal (2020-21)	No Work Done	
1b	Exploration over lease area for Geological axis 1 or 2.	Proposal was for G1 axis (09 BH) 200 X 200 m	9 BH Drilled.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No proposal	Exploration done by Lessee	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Area Explored in G1 Category	
1e	Balance Reserves as on 01/02/2019	111 – 393820 122 – 1061160	111 – 392981 122 – 1061160	
1f	General remarks of inspecting officer on geology, exploration etc.	As Reported exploration has been carried out by the Lessee during 2021-22.		

2.0 Development

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
2a	Location of development w.r.t. lease area	2405327 N to 2405664 N 569615E to 569933 E	2405300N to 2405700N 569600E to 569400E	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	3 Bench	03 Bench	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	No Proposal for Topsoil Generation.	10 m ³ utilised for plantation	
2e	Quantity of overburden generation in m3	No	No	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of pit is partially as per proposal in approved MP.		

3.0 Exploitation

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
3a	Number of pits proposed for production	02 Pits	02 Pits	
3b	Quantity of ROM mineral production proposed	200000 MT	838.540 MT	
3c	Recovery of salable /usable mineral from ROM production	180000 MT	838.540MT	
3d	Quantity of mineral reject generation	20000 MT	0.000 MT	
3e	Grade of mineral reject generation and threshold value declared	No Proposal.	Undersize Limestone of Chemical Grade	
3f	Quantity of sub-grade mineral generation	No	No	
3g	Grade of sub-grade mineral generation	No	No	
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	No	
3j	Provision of drilling & blasting in mineral benches	No	No	
3k	Provision of mining machineries in mineral benches	Yes	Yes	

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	10.127 Ha	10.127 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	Covered under current working: 6.72 Ha, Occupied by plant, Building, & Road : 3.406, Plantation : 0.2 Ha, Remaining Area; 14.154 ha	Covered under current working: 6.72 Ha, Occupied by plant, Building, & Road : 3.406, Plantation : 0.2 Ha, Remaining Area; 14.154 ha	
3p	Production of ROM mineral during last five-year period, as applicable	Year 2017-18 - 1,50,000MT Year 2018-19- 1,5,0000MT Year 2019-20- 2,00000MT Year 2020-21- 2,00000MT Year 2021-22- 2,00000MT	Year 2017-18 – 0.000MT Year 2018-19- 0.000MT Year 2019-20- 0.000MT Year 2020-21- 0.000 Year 2021-22- 838.540MT	
3q	General remarks of inspecting officer on method of mining etc.	Method of Mining adopted is as proposed.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate stacking of Mineral reject (undersize Limestone)	Separate stacking of Mineral reject (undersize Limestone)	
4b	Location of topsoil, OB & mineral reject dumps	2405470N TO 2405370N and 569735E to 569890	2405400N to 2405400N & 569700E to 569800E	
4c	Number of dumps within lease area and outside lease area	No	No	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No	No	
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	N.A	N.A	
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	Separate Stacking of Under size limestone is done as per proposal.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting	Part Extraction for Chemical Grade Limestone Only, No	Part Extraction for Chemical Grade Limestone Only, No	

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	backfilling	Backfilling is proposed	Backfilling Done.	
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 Backfilling has been carried out.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2021-22)	Actual work (2021-22)	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.	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 plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	i) N.A. ii) NO iii) NO iv) No V) No vi) 10000	i) N.A. ii) NO iii) NO iv) No V) No vi) 10000	
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 basis and soil monitoring on yearly basis.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	As reported PMCP Compliance has been done a per Proposal.		

7.0 Mineral Conservation

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
7a	ROM Mineral dispatch or	No Grade wise sorting	No Grade wise sorting	

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	grade-wise sorting within lease area	within the lease area	has been done.	
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 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	Size wise sorting has been done within the lease area.		

8.0 Environment

SN	Item	Proposals (2021-22)	Actual work (2021-22)	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)	No Proposal	No work done.	
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 inspecting officer on aesthetic beauty in and around mines area	Area is a plain land, with little or less vegetation, trees planted by the lessee can be seen.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to till date – up to December - 2022 A.R. submitted up to till date-up to 2021-22		
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	Rakesh Patel- Manager, Govind Khatri- Geologist, Agnivesh Singh Rathor- Mining Engg	Rakesh Patel-Manager, Yash Patel- Geologist, Jotava Ajay Rambhai- Mining Engg	Form “H” Received on time.
9c	Scrutiny of Annual return on	Covered Under	Covered Under Current	

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	land use pattern for area under pits, reclaimed area, dumps etc.	Current working- 6.72 Ha/ Afforestation/ plantation -0.20 Ha	working- 6.72 Ha/ Afforestation/ plantation -0.20 Ha	
9d	Scrutiny of Annual return on afforestation	Afforestation/ plantation -0.01 Ha	Afforestation/ plantation -0.01 Ha	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Subgrade or Undersize Limestone 10 % of ROM (20,000 Mt)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	1. Ex- Mine Price Rs.415.60/- per tonne 2. Cost of production 415.60/- per tonne	1. Ex-Mine Price Rs.415.60/- per tonne 2. Cost of production 415.60/- per tonne	
9i	Scrutiny of Annual return on fixed assets	NIL	NIL	
9k	Scrutiny of Annual return on mining machineries	Shovel, Rock-Breaker, Front end loader & Dumper.	Shovel, Rock-Breaker, Front end loader & Dumper.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- 11(1) of MCDR 2017.

(NAMAN EKKA)
Senior Mining Geologist