MCDR INSPECTION REPORT

GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Zinzarka Limestone Mines
1(b)	Name of inspecting officer	Shri Sanjaya Kumar Sahoo (Jr.Mining
	& Designation	Geologist,IBM)
1(c)	Accompanying Mines	Mr Rakesh Patel, Shri Mehul Sharma
	Representatives	
1 (d)	Type of Inspection	Star Rating Evaluation
1 (e)	Date of Inspection	09.08.2024
2	Total Lease Area (Ha) with	
	breakup of Non-forest and	24.28 Ha. (Forest Area: Nil) (Non-forest Area:
	forest land	24.28 Ha)
3	Minecode	38GUJ21051
4	IBM Registration Number	IBM/265/2011
1	under rule 45 of MCDR,	
	1988	
5	Name of the lessee,	Saurashtra Chemical, Division of Nirma Ltd.
	Address, phone, email and	Porbandar
	fax number	
6	Village	Boricha
7	Taluka/Mandal	Porbandar
8	District	Porbandar
9	Pincode	360545
10	State	Gujarat
11	Post office	Boricha
12	Nearest police station	Bagvadar
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining	30.11.1985
	Lease	
15	Date of Execution	08.06.1988
16	Date of opening of Mine	-
17	Date of first Renewal, if	Lease was transferred vide Govt. of Gujarat order
	applicable and its period &	no. MCR-1589(S-54)-2164-CHH dated-24.11.1992
	expiry	
18	Date of second Renewal, if	NA
	applicable and its period &	
	expiry	
19	Date of submission of	
	renewal application if	Lease was extended up to 07.06.2038 vide order
	Mining Operations are	no.MCR-1589(S-34)2164/CHH dated-02.07.2020 of
	continuing under deemed	IMD Govt. of Gujarat
	extension	
20	Name of the Nominated	Shri Sailesh V. Sonara, Executive Director,
		Saurashtra Chemical, Division of Nirma Ltd.
	email, fax number and date	Porbandar
	of appointment	
21	Name of the Mine Agent	Shri Manish D Patel, Mines Agent,
	with Address, phone, email,	Saurashtra Chemical, Division of Nirma Ltd.
	fax number and date of	Porbandar
1	appointment	

22	Name of the Mines Manager	Shri Rakesh P Patel, Mines Manager,
	with Address, phone, email,	Saurashtra Chemical, Division of Nirma Ltd.
	fax number and date of	Porbandar
	appointment in mines	

23	Name of the Mining Engineer,	Sri Ajay Jotava, (Mining Engineer)
	Qualification and total	Saurashtra Chemical, Division of Nirma Ltd.
	experience with Address,	Porbandar
	phone, email, fax number and	
	date of appointment in mine	
24	Whether Geologist and	Shri Mehul Sharma, Geologist,
	Mining Engineer appointed in	Saurashtra Chemical, Division of Nirma Ltd.
	mines satisfy the rule 55 &	Porbandar
	carrying out their duties as	
	per rule 56 & 57.	
25	Date of Approval of Mining	Letter No. MCDR-MPCP0CaFI/14/2022-GNR-
	Plan/Modified Mining	IBM_RO_GNR MP-444/22-23 dated-17.01.2023
	Plan/Review of mining plan	(2023-24 to 2027-28)
	with five-year period and	
	specific condition in approval	
	letter, if any.	
26	Date of Approval of Scheme of	N.A.
	Mining/Modified Scheme of	
	Mining with five-year period	
	and specific condition in	
	approval letter, if any.	
27	Mineral(s) granted in lease	Limestone
	and proved for mining	
28	Method of Mining(Opencast,	Opencast
	Underground)	
29	Category (Fully Mechanised,	'A' (OTFM)
	Others or Manual)	
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. - 1.0 Exploration

	o Exploration				
SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks	
1a	Backlog of previous year	No Proposal	Not Applicable		
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	2 Bore holes, 58 meter		
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	₹ 297500		
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Not Applicable		
1e	Balance reserves as on 01.04.204	UNFC 111- 26,30,524	1.45 MT		
1f	- 0	There was no proposal of exploration but 2 bore, holes were done in 2023-24. Total area is explored to G1. No violation found.			

2.0 I	<u>Development</u>			
SN	Item	Proposals(2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Pits No5,7,8,10,11 In east and west direction. In bench 1,2,3,6.	Pits No 5,7,8, ,11	
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.	There was no proposal overburden. Location a N21°45'6.01" and E69° Location and size of Pi 40'33.07"135m x 14m x	nd size of Pit-05: 240'20.61",102m x t-08: N21°45'13.59	11m x 3m
3.0 I	Exploitation			

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	05 pits	04 pits	
3b	Quantity of ROM mineral production proposed	100000 MT	41346.550 MT	
3c	Recovery of saleable/usable mineral from ROM production	90000 MT	41346.550 MT	
3d	Quantity of mineral reject generation	10000 MT	Nil	No Reject generated
3e	Grade of mineral reject generation and threshold value declared	CaO - 52.36(%), MgO- 0.408(%)	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	JCB-JS205 (Excavator	Dumper,	

	machineries in mineral benches	With Hammer), Dumper	Hydraulic Shovel, Front end loader	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3m bench height in mineral No overburden	3m bench height in mineral No overburden	
3m	Total area covered under excavation/pits	12.28 Ha	11.110 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	
30	Total area put in use under different heads at the end of year	Pit-12.28 Ha Mineral storage-0.16 Ha Plantation-0.5 Infrastucture-0.01 Ha Roads- 1.17 Ha Others- 3.53 Ha	0.160 Ha Occupied by plant, buildings, residential, welfare buildings and roads- 3.250 Ha Reclamation- 9.150 Ha Work done under PMCP- 0.610 Ha	Reclamation has not been done but wrongly reported in Annual Return. Violation under Rule 45(5) (c) is found.
3p	Production of ROM mineral during last five-year period, as applicable in MT		2019-20-00.00 2020-21- 00.00 2021-22- 838.540 2022-23- 196137.785 2023-24- 41346.550	
3q	General remarks of inspecting officer on	Only bench in mineral height is maintained. I		
405	method of mining etc. Solid Waste Management-	and E69°40' 33.99"		
SN		Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	Not Applicable	
4b		No Proposal	Not Applicable	
4c		No Proposal	Not Applicable	
4d		No Proposal	Not Applicable	
4e		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 was no proposal o	f dump for 2023-24.

5.0 Solid Waste Management-Backfilling

=	Bonu waste Management-D		<u> </u>					
SN	Item	Proposals (2023-24)	Actual work (2023-	Remarks				
			24)					
5a	Status on part or full	No Proposal	Not Applicable					
	extraction of mineral from							
	mined out area before							
	starting backfilling							
5b	Area under backfilling of	No Proposal	Not Applicable					
	mined out area							
5c	Concurrent use of topsoil	No Proposal	Not Applicable	No topsoil				
	for restoration or							
	rehabilitation of mined out							
	area (Rule 32)							
5d	Total area fully reclaimed &	No Proposal	Not Applicable					
	rehabilitated							
5e	General remarks of	There was no proposal	and not done.					
	inspecting officer on							
	backfilling, reclamation etc.							

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	Along with Annual Return	
6b	rehabilitation (ha)	Afforestation -0.01 Ha No. of saplings- 100 Cost- Rs. 60000 Survival rate- 60%	Afforestation -0.15 Ha No. of saplings- 330 Cumulative no of plants- 665 Survival rate- 50%	330 plants are planted against proposal of 100 plants.

	vi) Cost incurred on watch			
	& care during the year			
6c	Compliance on	No Proposal	Not Applicable	
	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			

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		ation found. 330 plan	

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	90000 MT	41346.550 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposal	Not Applicable	
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 &	Mineral conservation issue has not found during inspection.		

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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	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Applicable	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	-	Cumulative no of plants- 665	
8g	Survival rate	60 %	50 %	330 plants are planted against proposal of 100 plants.
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 through water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	There was no proposal of topsoil generation. Water sprinkling was seen in the mines during inspection.		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
	Status of submission of	January-2025 Monthly Return was	
	Online Monthly and	submitted -06.02.2025	
	Annual returns	2023-24 Annual Return was submitted on	
		13.06.2024.	

S.N.	Item	Details GIVEN in A.R.	Observation of	Remarks

		(2023-24)	I/Officer /Actual reported in Returns	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Ajay Jotava (Mining Shri Mehul Sharma(Geo Shri Rakesh P Patel (M	ologist)	Violation under Rule 45(5) (c) is found.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-11.110 Ha Waste disposal - 0.160 H Occupied by plant, build welfare buildings and ro Reclamation- 9.150 Ha Work done under PMCP	ings, residential, ads- 3.250 Ha	
9d	Scrutiny of Annual return on afforestation	Afforestation -0.15 Ha No. of saplings- 330 Cumulative no of plants- Survival rate- 50%	665	
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 stock- Nil Grade wise(Chemical gra C/S- 49668.000 MT , Dis		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value-0 (captive) Ex. Mine price- ₹ 439.60 Production cost- ₹ 439.6	_	
9i	Scrutiny of Annual return on fixed assets	0/-		
9k	Scrutiny of Annual return on mining machineries	Dumper, Hydraulic Shov	el, Front end loader	

- $10 \hbox{--} \ \, \text{Details of violations observed during current inspection and compliance position of earlier violation pointed out:-}$
 - **a.** No violations were pointed out during last inspection.
 - **b.** The Drone data has been submitted on 25-06-2024. It has been checked and referred back to the Lessee.
 - **C.** Self-assessment date of Star Rating is 27/06/2024 and Rating given the Lessee is 4. It has been evaluated and given 4 Star.
 - d. Violation under Rule 45(5) (c) read with 45(7) is found.

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