MCDR Inspection Repot \_)

# **MCDR INSPECTION REPORT**

## 1.0 **GENERAL**

	ENERAL	T
SN	Particulars	Details
1 (a)	Name of the Mine	Boricha Limestone Mines
1(b)	Name of inspecting officer & Designation	Shri Sunil Kumar Sharma, (Sr. ACOM)
1(c)	Accompanying Mines Respresentatives	Mr D.K.Singh, Mines Manager
1 (d)	Type of Inspection	Star Rating Evaluation/ MCDR inspection
1 (e)	Date of Inspection	18.12.2023
2	Total Lease Area (Ha) with	101.17 Ha.
	breakup of Non-forest and forest	(Forest Area: Nil) (Non-forest Area: 101.17
	land	HA)
3	Mine code	38GUJ21095
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/265/2011
5	Name of the lessee, Address,	Saurashtra Chemical, Division of Nirma Ltd.
	phone, email and fax number	Porbandar
6	Village	Boricha
7	Taluka/Mandal	Porbandar
8	District	Porbandar
9	Pin code	360560
10	State	Gujarat
11	Post office	Bagvadar
12	Nearest police station	Ranavav
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	27.08.1965
15	Date of Execution	10.07.1966
16	Date of opening of Mine	10.07.1966
17	Date of first Renewal, if applicable	05.07.1985
	and its period & expiry	
18	Date of second Renewal, if	14.06.2005
	applicable and its period & expiry	Lease period extended upto 31.03.2030
19	Date of submission of renewal	Period extended as per MMDR amendment
	application if Mining Operations	act 2015 section 8A(5)(6) up to 31/03/2030
	are continuing under deemed extension	and execute supplementary lease deed
20	Name of the Nominated Owner	accordingly. Sri Sailesh V. Sonara, Executive Director,
20	with Address, phone, email, fax	Saurashtra Chemical, Division of Nirma Ltd.,
	number and date of appointment	Porbandar
	and date of appointment	date of appointment: 15.01.2021
21	Name of the Mine Agent with	Sri Manish D Patel, Mines Agent,
<u>4</u> 1	Address, phone, email, fax number	Saurashtra Chemical, Division of Nirma Ltd.,
	and date of appointment	Porbandar
22	Name of the Mines Manager with	Sri Dhananjay Kumar Singh, Mines Manager,
22	Address, phone, email, fax number	Saurashtra Chemical, Division of Nirma Ltd.
	and date of appointment in mines	Porbandar
	and date of appointment in innes	date of appointment: 15.01.2021
23	Name of the Mining Engineer,	Sri Dhananjay Kumar Singh, (Mining
20	Qualification and total experience	Engineer)
	with Address, phone, email, fax	Saurashtra Chemical, Division of Nirma Ltd.
	little real coo, phono, chian, lax	Proposition of the state of the

	number and date of appointment in mine	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-317/2020-21_MDRD (N)/GNR Dt 02.03.2021 Period: Five years (From 2021-22 to 2025-26)
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(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	'A' Category
30	Captive/Non Captive	Captive

38GUJ21095- 101.17 Ha - Boricha [22/2]- Nirma Ltd. Division of Saurashtra Chemicals- Porbandar-LST- 265/238

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

**Exploration** 

	T <sub>1</sub>	D	1- (2022 22)	A - + 1	1- (2022	In
SN	Item	Propo	sals (2022-23)		work (2022-	Remarks
				23)		
1a	Backlog of previous year	No ba	cklog	NA		-
1b	Exploration over lease area	G1 an	d to explore	Nil		-
	for Geological axis 1 or 2.	the m	ineralisation			
		for de	pth.			
1c	Exploration Agency &	Nil		Nil		-
	Expenditure in lakh Rupees					
	during the year					
1d	Balance area to be explored	49.07	ha.	Nil		-
	to bring Geological axis in 1					
	or 2	As o	n 01.04.2022	As c	on 1.04.2023	
1e	Balance reserves as on	111	9,55,839	111	9,24,670	-
	01.04.2023.	122	15,89,800	122	15,89,800	1
	(In tonnes)	221	1,56,760	221	1,56,760	1
		222	5,47,200	222	5,47,200	1
		331	1,44,600	331	1,44,600	1
		332	2,51,600	332	2,51,600	
		333	2,54,48,600	333	2,54,48,600	
1f	General remarks of	No ex	ploration activ	ity was	carried out du	ring the
	inspecting officer on	year 2	2022-23.			
	geology, exploration etc.					

# 2.0 Development

SN	Item	• • •	Actual work (2022- 23)	Remarks
			•	

2a	Location of development w.r.t. lease area	2405314 N to 2405440 N	240538 N to 240542 N	-
	w.r.t. lease area	569999 E to 570440E	[= '	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No bench for topsoil and OB. First Bench- Limestone	As proposed	-
2c	Stripping ratio or ore to OB ratio	1:0	1:0	-
2d	Quantity of topsoil generation in m3	No proposal	NA	-
2e	Quantity of overburden generation in m3	No proposal	NA	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	There is no top soil and developed in limestone		ench was

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	3 pits	3 pits	
3b	Quantity of ROM mineral production proposed	200000 tonnes	31,169.790 tonnes	
3c	Recovery of salable/usable mineral from ROM production	160000 tonnes	25269.790 tonnes	
3d	Quantity of mineral reject generation	40000 tonnes	5,900 tonnes	
3e	Grade of mineral reject generation and threshold value declared	47.5% CaO (under size - < 25mm)	47.5% CaO (under size - < 25mm)	
3f	Quantity of sub-grade mineral generation	40000 tonnes	5,900 tonnes	
3g	generation	Undersize Chemical Grade Limestone	Undersize Chemical Grade Limestone	
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	N.A.	N.A.	
3j	Provision of drilling & blasting in mineral benches	Yes	No	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in	Yes	As proposed	

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	MP/SOM			
3m	Total area covered	20.33 Ha	20.33 HA	
	under excavation/pits			
3n	Ore to OB ratio for the	1:0	1:0	
	pit/mine during the year			
3о	Total area put in use under	Pit-20.33	Pit-20.33	As per
	different heads at the end	Waste/reject-0.800	Waste/reject-0.800	Annual
	of year	Plantation-0.60	Plantation-0.60	return
		Infrastucture-1.953	Infrastucture-1.953	
		Remaining area-	Remaining area-77.48	
		77.48		
3р	Production of ROM mineral			
	during last five-year period,			
	as applicable (In tonnes)	Yr 2021-22 - 100000	Yr-2021-22- 00	
		Yr 2022-23 -	Yr-2022-23-	
		200000	31169.790	
3q	General remarks of	S	with the use of rock br	eaker and
	inspecting officer on	other mining machineries.		
	method of mining etc.			

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	1	Remarks
			23)	
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal	NA	There is no soil encountered during mining
4b	Location of topsoil, OB & mineral reject dumps	Mineral Reject: 20% of ROM will be stacked and sell to cement plant.	Mineral reject stacks is 62,750 tonnes as per monthly return of November 2023.	Mineral stack was observed during inspection.
4c	Number of dumps within lease area and outside lease area	01 (Mineral reject: undersize)	01 (Mineral reject: undersize)	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	NA	
4e	Number of active & alive dumps	No proposal	NA	
4f	Number of dead dumps	No proposal	NA	
4g	Number of dumps stabilised	No proposal	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	NA	
4i	Length of Retaining wall or garland drain all along dump	No proposal	NA	
4j	Number of settling ponds	No proposal	NA	
4k	Specific comments of inspecting officer	It is observed that m mining operation wh material shall be solo mining plan.	ich is under sized of	25mm. The

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2022-	Actual work (222-	Remarks
		23)	23)	
5a	Status on part or full extraction of	No proposal	NA	-
	mineral from mined out area			
	before starting backfilling			
5b	Area under backfilling of mined	No proposal	NA	-
	out area			
5c	Concurrent use of topsoil for	No proposal	NA	-
	restoration or rehabilitation of			
	mined out area (Rule 32)			
5d	Total area fully reclaimed &	No proposal	NA	-
	rehabilitated			
5e	General remarks of inspecting	-		
	officer on backfilling, reclamation			
	etc			

6.0 Progressive Mine Closure Plan

SN	Item		Actual work (2022-	Remarks
			23)	
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. No proposal ii. 1 Ha iii. 1000Nos iv v vi. 1,00,000	i. N.A. ii. 0.4 Ha iii. 650Nos iv) - v) -	Less plantation was observed during inspection.
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	NA	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha)	No waste Land is available within lease area	NA	-

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	iii) Method of rehabilitation			
6e	Compliance of Environmental	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	
6f	General remarks of	Violation was observ	party CCS. ved in Rule 11(1) of M	ICDR 2017
01	inspecting officer on PMCP	that plantation was :	not carried out in the	·
	compliance & progressive.	23 as per PMCP.		

## 7.0 Mineral Conservation

7.0 1	dineral Conservation			
SN	Item	Proposals (2022-23)	Actual work (2022- 23)	Remarks
7a 7b	ROM Mineral dispatch or grade-wise sorting within lease area  Method of grade-wise mineral sorting i.e. manual	ROM dispatch: 1,60,000 tonnes Undersized limestone generated: 40,000 tonnes Manual	ROM dispatched: 25,269.790 tonnes Undersized limestone generated: 5,900 tonnes Manual	-
	or mechanical			
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 Proposal	NA	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	It is observed that min mining operation whic material shall be sold mining plan.	h is under sized of 25r	nm. The

## 8.0 Environment

SN	Item	Proposals (2022-23)	Actual work (2022- 23)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NA	-
8b	Concurrent use or storage of topsoil	No proposal	NA	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	NA	-
8d	Use of overburden, waste rock, rejects and fines	No proposal	NA	-

	dumps for restoring the land to its original use			
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	S	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000 No.s	650 No.s	Less plantation
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 are	Violation was observed in Rule 11(1) of MCDR, 2017 that plantation was not carried out in the year 2022-23 as per PMCP.		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks	
9a.		M.R. Submitted upto till	-	
	5	date- up to Nov-2023		
	Annual returns	A.R. submitted upto till		
		date-up to 2022-23		
S.N.	Item	Observation of I/Officer /. in Returns	Actual reported	Remarks
9b	Scrutiny of Annual return	Shri Dhananjay Kumar Si	ingh (Mining	-
	for information on Mining	engineer)	9 (9	
	Engineer, Geologist and	Shri Mehul Sharma (Geologist)		
	Manager	Sin Prond Sidemia (Geologist)		
9с	Scrutiny of Annual return	Covered Under Current v	vorking- 20.33	-
	on land use pattern for area	Ha/		
	under pits, reclaimed area,	Afforestation/ plantation -0.60 Ha		
	dumps etc.			
9d	Scrutiny of Annual return	Afforestation/ plantation	-0.60Ha	-
	on afforestation			
9e	Scrutiny of Annual return	In submitted Annual Return 2022-23; at		
	on mineral reject	Part V; point No.2; the reserves		observed
	generation (Grade &	mentioned under 121 UNFC code was		under Rule
	quantity)	1589800 tonnes whereas as per		45(5C)
		approved mining plan it i	s reported in	
		122 code.		
		At Part V; point No. 3; ge	neration of	
		sub-grade mineral reject		
		5900 tonnes whereas it is	s chemical	
		grade undersize. There is	s no mineral	
		reject generated as it is o	chemical grade	
		limestone.		
9f	Scrutiny of Annual return	31169.790 Mt		-
	on ROM stock and/or			1

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	graded ore		
9g	Scrutiny of Annual return	Ex.Mine Prise Rs.427.60/- per tonne	-
	on sale value, Ex. Mine	Cost of production 427.60/-	
	price & production cost	(captive mines)	
9i	Scrutiny of Annual return	Nil	-
	on fixed assets		
9k		Shovel (Hydraulic):01 No. (1.2 m <sup>3</sup>	-
	on mining machineries	capacity)	
		Front End Loader: 01 No. (2 m <sup>3</sup>	
		capacity)	
		Dumper: 03 No. (10 t capacity)	

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

Details of Validations observed during current inspection and compliance position of <u>earlier violation pointed out:-</u>

	tion pointed out.	
नियम सं.	उल्लंघनों के प्रकारों का विस्तृत ब्यौरा	
11(1)	The following violation is observed as per implementation of proposals of the mining plan approved vide this letter No. 684(4)(1)/MP-317/2020-21/MDRD(N)GNR dated 02.03.2021:  According to point number 8.3 (Table No.58) of the approved mining plan, it was proposed to plant 1000 trees for environmental improvement in the year 2022-23, but at the time of inspection it was found that around 650 plants were planted which is less than proposed.	
45(5C) read with	In submitted Annual Return 2022-23 following deficiencies/ inconsistencient are found:	
45(7)	<ul> <li>i. At Part V; Point No.2; the reserves mentioned under 121 UNFC code was 1589800 tonnes whereas as per approved mining plan it is reported in 122 UNFC code.</li> <li>ii. At Part V; point No. 3; generation of sub-grade mineral reject was reported 5900 tonnes whereas its grade is above cutoff grade, the material balance data seems not logical. This quantity is also given in table 3(ii) of Part-VI.</li> </ul>	

Sunil Kumar Sharma) Senior Assistant Controller of Mines