

I/2230/2022

## MCDR INSPECTION REPORT

1.0 GENERAL

S.No	Particulars	Details
1(a)	Name of the Mine	पाटन चूनापत्थर खान
1(b)	Name of Inspecting Officer & Designation	मनीष गुप्ता, सहायक खान नियंत्रक
1(c)	Accompanying Mines Representatives	श्री संदीप श्रीवास्तव, खान प्रबंधक
1(d)	Type of Inspection	स्टार रेटिंग
1(e)	Date of Inspection	15.11.2022
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non Forest – 911.4145 हे.
3	Mine Code	38GUJ07092
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/265/2011
5	Name of the lessee, Address, phone, email and fax number	निरमा लि. निरमा हाउस, आश्रम मार्ग, अहमदाबाद (गुजरात) 380 009 Phone : 0792 – 7546565 Email - <a href="mailto:mines@nirma.co.in">mines@nirma.co.in</a> Fax number : 0792 – 546603
6	Village	पाटन
7	Taluka/Mandal	जाम जोधपुर
8	District	जामनगर
9	Pincode	360 530
10	State	गुजरात
11	Post office	जाम जोधपुर
12	Nearest police station	जाम जोधपुर
13	Nearest Railway station	जाम जोधपुर
14	Date of Grant of Mining Lease	31.05.2016
15	Date of Execution	19.10.2016
16	Date of opening of Mine	06.12.2016
17	Date of first Renewal, if applicable and its period & expiry	लागू नहीं
18	Date of second Renewal, if applicable and its period & expiry	लागू नहीं
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	लागू नहीं
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	श्री शैलेश वी. सोनारा निरमा हाउस, आश्रम मार्ग, अहमदाबाद (गुजरात) 380 009 Phone : 0792 – 7546565 Email - <a href="mailto:mines@nirma.co.in">mines@nirma.co.in</a> Fax number : 0792 – 546603
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	श्री अश्विन पटेल काला तलाव, भावनगर (गुजरात) 364 313 Phone : 0278 – 2885301 Email - <a href="mailto:nirma_pbr@nirma.co.in">nirma_pbr@nirma.co.in</a> Fax number : 0286- 2245431, 05.11.2016

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22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	श्री संदीप श्रीवास्तव पाटन, तालुका - जाम जोधपुर, जिला - Jamnagar (गुजरात) 360 530 Phone : 0278 - 2413800 Email - <a href="mailto:nirma_kalatalav@nirma.co.in">nirma_kalatalav@nirma.co.in</a> Fax number : 0278 - 2413818, 26.04.2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	श्री वेजानन्द सुवा पाटन, तालुका - जाम जोधपुर, जिला - Jamnagar (गुजरात) 360 530 Phone : 0278 - 2413800 Email - <a href="mailto:nirma_kalatalav@nirma.co.in">nirma_kalatalav@nirma.co.in</a> Fax number : 0278 - 2413818, 28.12.2021, खनन अभियांत्रिकी (स्नातक),
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	हां।
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	684(4)(1)MP-323/2021MDRD(एन)/GNR दिनांक 18.03.2021
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	--
27	Mineral(s) granted in lease and proved for mining	चूनापत्थर
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	A
30	Captive/Non Captive	Captive

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

#### Exploration

SN	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
1a	Backlog of previous year	66 Bore hole	17 Bore hole has been drilled.	नियम 11(1) का उल्लंघन दिया जा रहा है।
1b	Exploration over lease area for Geological axis 1 or 2.	--	480.35 hect.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	N.A	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	431.0645 hect.	
1e	Balance reserves as on 01.04.2022.	23.3580 million tonnes	23.3580 million tonnes	Chemical & cement grade.
1f	General remarks of inspecting officer on geology, exploration etc.	Part of lease area is still remaining for exploration.		

#### 2.0 Development

SN	Item	Proposals (2021-22)	Actual (2021-22)	Remarks
2a	Location of development w.r.t. lease area	E/W 605935 608283 N/S 2411830 2412930	E/W 605935 608283 N/S 2411830 2412930	Scattered mining work as per proposal.

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2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NIL	N.A	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	NIL	20	
2e	Quantity of overburden generation in m3	NIL	N.A	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of pit is satisfactory.		

### 3.0 Exploitation

S N	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
3a	Number of pits proposed for production	6	6	
3b	Quantity of ROM mineral production proposed	300000 tonnes	217495.877 tonnes	Less captive requirement.
3c	Recovery of saleable/usable mineral from ROM production	240000 tonnes	180179.862 tonnes	
3d	Quantity of mineral reject generation	NIL	N.A	
3e	Grade of mineral reject generation and threshold value declared	NIL	N.A	
3f	Quantity of sub-grade mineral generation	60000 tonnes	37316.015 tonnes	
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 beneficiation study proposed & carried out for sub-grade mineral and reject	N.A	N.A	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	As per proposal.	
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	56.713 ha	50.240 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- 56.713 ha Mine road, etc – 8.22 ha	Pit- 50.240 ha Mine road, etc – 8.22 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2017-18: 360000 tonne 2018-19: 360000 tonne 2019-20: 360000 tonne 2020-21: 360000 tonne 2021-22: 300000 tonne	2017-18:140243.27 tonne 2018-19:189002.82 tonne 2019-20: 232183.35 tonne 2020-21: 267255.30 tonne 2021-22: 217495.87 tonne	Production decreased due to decrease demand of plant.
3q	General remarks of inspecting officer on method of mining etc.	Mining is done with Rock-breaker and Drilling/blasting.		

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**4.0 Solid Waste Management-Dumping**

S N	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	NIL	N.A	Area is free from OB.
4b	Location of topsoil, OB & mineral reject dumps	NIL	N.A	
4c	Number of dumps within lease area and outside lease area	NIL	N.A	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	NIL	N.A	
4e	Number of active & alive dumps	NIL	N.A	
4f	Number of dead dumps	NIL	N.A	
4g	Number of dumps stabilised	NIL	N.A	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	N.A	
4i	Length of Retaining wall or garland drain all along dump	NIL	N.A	
4j	Number of settling ponds	NIL	N.A	
4k	Specific comments of inspecting officer	Area is free from OB and dump.		

**5.0 Solid Waste Management-Backfilling**

S N	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No backfilling is envisaged as no waste material is available.	As per proposal.	
5b	Area under backfilling of mined out area	NIL	N.A	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	NIL	N.A	
5d	Total area fully reclaimed & rehabilitated	NIL	N.A	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling is not practical as there is no overburden in the area.		

**6.0 Progressive Mine Closure Plan**

S N	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2)	As per rule	Submitted on 24.06.2022	
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	NIL 0.3 ha 300 NIL	N.A 0.35 ha 1320 NIL	700 as per proposal, 620 for non survival

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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	NIL	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NIL	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environment monitoring (air quality, water quality & noise level) shall be done regularly.	Regular monitoring has been carried out.	Within limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP report has submitted on time as per the provision of rule 26 of MCDR, 2017. Work for PMCP is satisfactory.		

### 7.0 Mineral Conservation

S N	Item	Proposals (2021-22)	Actual (2021-22)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	300000 tonne	217495.87 tonne	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Undersize chemical grade limestone.	Undersize chemical grade limestone.	
7d	Any beneficiation process at mines	NIL	N.A	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation required as all ROM is used in plant.		

### 8.0 Environment

S N	Item	Proposals (2021-22)	Actual work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	NIL	10m <sup>3</sup>	Used in plantation.
8b	Concurrent use or storage of topsoil	NIL	Encountered soil has used in plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	NIL	N.A	There is no dump in the area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	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 44)	--	Neem, Sagwan, Karrenge, Golmohar, Mango, Guava trees	

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8g	Survival rate	70%	68%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Achieved.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The aesthetic environment of lease area is good.		

**9.0 Compliance of Rule 45**

S. N	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted up to– October, 2022 A.R. submitted for the year 2021-22 on 12.06.2022	

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	Mining engineer- Sh. Vejanand Suva Geologist- Sh. Ramesh Vishwakarma	Mining engineer- Sh. Vejanand Suva Geologist- Sh. Mitesh Modi	Form H submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 50.240 ha		
9d	Scrutiny of Annual return on afforestation	700		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	--		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Chemical grade: Opening stock 244044.55 tonne Closing stock – 237982.06 tonne		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	₹ 394.12		
9i	Scrutiny of Annual return on fixed assets	₹ 1574517		
9k	Scrutiny of Annual return on mining machineries	Bach hoe, Water tanker, Air compressor, Tipper		

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

पिछले निरीक्षण दिनांक 12.09.2021 में नियम संख्या 26(2), 45(7) एवं 55(1)(सी)(i) का उल्लंघन पाया गया था, दिनांक 29.11.2021 तथा 07.01.2022 को इन नियमों की अनुपालना हो गई है। वर्तमान निरीक्षण स्टार रेटिंग मूल्यांकन के लिए किया गया, मूल्यांकन के पश्चात खान के Points 83% से 80% रहे हैं। निरीक्षण के समय नियम संख्या 11(1) उल्लंघन पाया गया। उल्लंघन पत्र जारी करने की कार्यवाही की जा रही है।

दिनांक : 01.12.2022

( मनीष गुप्ता )

सहायक खान नियंत्रक