

MCDR INSPECTION SHEET**1.0 GENERAL**

S. N.	Particulars	Details
1(a)	Name of the Mine	Adityana Limestone & Marl Mine
1(b)	Name of Inspecting Officer & Designation	Shri. Pushpender Gaur, RCOM, Indian Bureau of Mines, Gandhinagar
1(c)	Accompanying Mines Representatives	Shri. P. K. Deshpande
1(d)	Type of Inspection	Star Rating Inspection
1(e)	Date of Inspection	01-10-2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	643.02 Ha. (Govt. Waste Land)
3	Mine code	38GUJ08254
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/280/2011
5	Name of the lessee, Address, phone, email and fax number	<p>M/s. SAURASHTRA CEMENT LIMITED, N.K. Mehta international house,178,backbay Reclamation, Mumbai, Mumbai (Suburban), Maharashtra-400020. Phone No. - 02266365390, scl-mum@mehtagroup.com, Fax. No -02222048122.</p> <p>Regd.Office Address :- Near Railway Station Ranavav 360550,Dist.-Porbandar, Gujarat (India),Phone-02801-234200, Email: - scl-rmv@mehtagroup.com, Fax:-02801-234376/234384.</p>
6	Village	Adityana
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pin code	360550
10	State	Gujarat
11	Post office	Ranavav
12	Nearest police station	Ranavav
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	20/10/1956
15	Date of Execution	20/10/1956
16	Date of opening of Mine	27/10/1960
17	Date of first Renewal, if applicable and its period & expiry	For the period of 20 Years i. e. 20/10/1976 to 19/10/1996.
18	Date of second Renewal, if applicable and its period & expiry	For the period of 20 Years i. e. 20/10/1996 to 19/10/2016.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Under deemed renewal thereafter, Lease expiry on 31/03/2030 (As per Letter No. MCR-1576-(S-102)-8192-Chh.1, Dated.24/10/2017, Lease extension order)
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	<p>Shri. M.S Gilotra Address:-2nd floor ,N.K Mehta International House 178,Back bay Reclamation, Babubhai Chinai Road, Mumbai-4000020, Phone No: - Office No:022 – 66365310, Fax: - 022-66365445/22048122. Email:- msgilotra@mehtagroup.com Date of Appointment: – 15.10.2004.</p>
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<p>Shri. Narendra Singh Saurashtra Cement Limited, Near Railway Station, Ranavav-360550. Phone-02801-234257, Fax:-02801-234376-234384. Email:- narendrasingh@mehtagroup.com Date of Appointment – 21.06.2016.</p>
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<p>Shri. P. K. Deshpande Saurashtra Cement Limited Near Railway Station Ranavav-360550,Phone-02801-234232, Fax:-02801-234376-234384 Email – pkdeshpande@mehtagroup.com Date of Appointment – 31.10.2008.</p>
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	<p>Shri. A. R. Panda Saurashtra Cement Limited Near Railway Station Ranavav-360550, Phone-02801-234352, Fax:-02801-234376-234384 Email – arpanda@mehtagroup.com Date of Appointment – 01.10.2013.</p>

24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes Shri. P. K. Deshpande Saurashtra Cement Limited Near Railway Station Ranavav-360550,Phone-02801-234232, Fax:-02801-234376-234384 Email – pkdeshpande@mehtagroup.com Date of Appointment – 31.10.2008.
25	Date of Approval of Mining Plan/ Modified Mining Plan / Review of Mine Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Modified Mining Plan :- 17.11.2023 Vide letter No. MCDR-MPCP0CaFl/31/2023-GNR-IBM_ RO_GNR MP-496 Mine Code: 38GUJ08254
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Limestone & Marl
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Captive

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

Exploration

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	No proposal	Not done	Exploration work completed in Feb.2021. After the samples, analysis by NABL Lab, and reserve estimation process is completed in the last financial year 2022-23.
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	After completion of last phase of core drilling, the whole lease area is explored in specified (200 X 200)M grid interval.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Not Applicable	
1e	Balance reserves as on 01.04.2024 in Tonnes.	Limestone: UNFC Code; 111-103620535, 121-90790000 Marl: UNFC Code; 111- 15890855, 121-13570000		
1f	General remarks of inspecting officer on geology, exploration etc.	Satisfactory.		

2.0 Development-

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a (i)	Location of development w.r.t. lease area	<p>For Limestone- PIT-1 (21°42'39.99"N - 69°42'3.38"E to 21°43'6.34" N - 69°41'43.18" E)</p> <p>PIT-2 (21°42'40.71"N - 69°42'4.74"E to 21°43'2.80" N - 69°42'10.42" E)</p> <p>PIT-6 (21°43'20.57"N - 69°41'55.36"E to 21°43'17.11" N - 69°41'37.85" E)</p>	<p>For Limestone- PIT-1 (21°42'39.99"N - 69°42'3.38"E to 21°43'6.34" N - 69°41'43.18" E) LxB=932x304m</p> <p>PIT-2 (21°42'40.71"N - 69°42'4.74"E to 21°43'2.80" N - 69°42'10.42" E) LxB=702x240m</p> <p>PIT-6 (21°43'20.57"N - 69°41'55.36"E to 21°43'17.11" N - 69°41'37.85" E) LxB=266x157m</p>	Development of Pit is as per the proposal.
		<p>For Marl- PIT-3 (21°42'36.42"N - 69°42'37.58"E to 21°42'46.98" N - 69°42'25.42" E)</p>	<p>For Marl- PIT-3 (21°42'36.42"N - 69°42'37.58"E to 21°42'46.98" N - 69°42'25.42" E) LxB=458x294m</p>	
2b	Separate benches in topsoil, over-burden and mineral (Rule 15)	No Proposal	Not Applicable	No proposal for top soil & overburden
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.0	No OB generation
2d	Quantity of topsoil generation in m3	No Proposal	Not Applicable	No top soil generation
2e	Quantity of overburden generation in m3	No Proposal	Not Applicable	No overburden generation
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of Pit is as per the proposal. Limestone is almost outcropping in virgin area. Pits are systematically developed for excavation of Limestone and Marl.		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	04	04	Pit-1, Pit-2 & Pit-6 for Limestone, Pit-3 for Marl. (As per Proposals).
3b	Quantity of ROM mineral production proposed in MT	Limestone- 2562889.95 tonnes (LS-1273587.10, LS-700302.85, LS-589000.00)	Limestone- 1699465.00 tonnes	Less Marl production due to excessive rain caused water logging, limestone production as per captive plant requirement. (Actual taken from Annual Return 2023-24)
		Marl-567360.00 tonnes	Marl- 451816.00 tonnes	
3c	Recovery of saleable/usable mineral from ROM production in MT	Limestone- 2562889.95 tonnes Marl-567360.00 tonnes	Limestone- 1699465.00 tonnes Marl-451816.00 tonnes	No mineral reject generated
3d	Quantity of mineral reject generation	No Proposal	Not Applicable	No mineral reject generated

3e	Grade of mineral reject generation and threshold value declared	No Proposal		Not Applicable		
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	No Proposal		Not Applicable		
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	Total ROM proposed to be handled in CUM/annum 100503		Nil		No blasting in FY 2023-24.
3k	Provision of mining machineries in mineral benches	1. Back Hoe-0.9 CUM-1 2. Shovel (Hydraulic)-2 3. Dumper 35Tonne-4. 4. Dozer (320 HP)-1. 5. Surface Miner (900 HP)-01. 6. Dumper 25 Tonne-12. 7. Wheel Loader (1.7 CUM)-3. 8. Drill (152 MM) - 1. 9. Explosive Van		1. Back Hoe-0.9 CUM-1 2. Shovel (Hydraulic)-2 3. Dumper 35Tonne-4. 4. Dozer (320 HP)-1. 5. Surface Miner (900 HP)-01. 6. Dumper 25 Tonne-12. 7. Wheel Loader (1.7 CUM)-3. 8. Drill (152 MM) - 1. 9. Explosive Van		Fully mechanised mine.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In Mineral: Height-6m and Width-7.5m No proposal in overburden		Yes		6m-bench height and 7.5 m-bench width is maintained.
3m	Total area covered under excavation/pits	200.39 Ha.		197.45 Ha.		
3n	Ore to OB ratio for the pit/mine during the year	1:0.0		1:0.0		No overburden
3o	Total area put in use under different heads at the end of year	Area under Mining- 200.39 ha.(including- water reservoir) Mineral Storage- 4.61 ha. Infrastructure (Workshop, Administrative Building etc.)-18.70 ha. Road-1.67 ha. Mineral Separation Plant (Plant Raw Mat. Stock)- 6.62 ha. Township Area-1.93 ha.		Area under Mining- 197.45 ha.(including- water reservoir) Mineral Storage- 4.61 ha. Infrastructure (Workshop, Administrative Building etc.)-18.30 ha. Road-1.67 ha. Mineral Separation Plant (Plant Raw Mat. Stock)- 6.62 ha. Township Area-1.93 ha. Reclaimed/rehabilitated- 12.39 ha.		Total area put to use as per drone data.
3p	Production of ROM mineral during last five-year period, as applicable in MT	2019-20	2227513	2019-20	1464241	All figures are in tonnes ROM minerals (Limestone + Marl)
		2020-21	2054450	2020-21	1482307	
		2021-22	2182603	2021-22	1974060	
		2022-23	2188475	2022-23	1483854	
		2023-24	3130249.95	2023-24	2151281	
3q	General remarks of inspecting officer on method of mining etc.	Mine was carried out with surface miner wheel loader and dumper combination. Mine has Pit-1, Pit-2 and Pit-6 with the size of LxB=932x304m, LxB=702x240m and LxB=266x157m. Some of the pits were filled with rain water.				

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	Not Applicable	No top soil & OB

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4b	Location of topsoil, OB & mineral reject dumps	No Proposal	Not Applicable	
4c	Number of dumps within lease area and outside lease area	No Proposal	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Not Applicable	
4e	Number of active & alive dumps	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 is no OB/Dump in lease area.		

5.0 Solid Waste Management-Backfilling

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Not carried out	
5b	Area under backfilling of mined out area	No Proposal	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposal	Not Applicable	No top soil, mineral is out cropped except incidental soil in variable patches used in plantation.
5d	Total area fully reclaimed & rehabilitated	No Proposal	Not Applicable	As on 01/11/2019, total area fully reclaimed & rehabilitated-5.94 Ha. No Back filling thereafter.
5e	General remarks of inspecting officer on backfilling, reclamation etc	There is no backfilling proposal. Plantation has been carried out in reclaimed area.		

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	Yes, submitted along with Annual Return.	
6b	Management of worked/mined out benches	-	-	
	i) Area available for rehabilitation (ha)			
	ii) Afforestation done (ha)	4.01 Ha.	4.01 Ha.	Bench Restoration Plantation-0.81 ha. Statutory Barrier, Bench Restoration, Non-Mining Zone-3.2 ha.
	iii) No. of saplings planted during the year	8020	8100	
	iv) Cumulative no. of plants	139995	140075	
	v) Any other specific method of rehabilitation	NA	NA	
	vi) Cost incurred on watch & care during the year	Rs. 32,08,000 /-	Rs. 81,75,706.36/-	.
6c	Compliance on reclamation and rehabilitation by backfilling	No Proposal	Not Applicable	

	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)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP work is satisfactory. Some of the pits were filled with rain water.		

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	ROM mineral despatch to captive plant after crushing	Limestone-1699465.00 tonnes Marl-451816.00 tonnes despatched to plant after crushing.	Marl is used in blending with Limestone in cement manufacturing; otherwise, it has no individual usage, thus that much mineral (Limestone) is conserved.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	NA	
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 & beneficiation issues	Blending of marl with limestone is being carried out to enhancing the life of mine and thus mineral conservation aspects found addressed.		

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	No top soil
8b	Concurrent use or storage of topsoil	No Proposal	Not Applicable	Whatever incidental soil got during mining is used in plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	Not Applicable	No OB/ Mineral reject
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No Proposal	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	-	Additional plants- 8100 within lease area and 3537 plants in outside lease area. Total Plants -140075	
8g	Survival rate	90 %	92.10%	
8h	Water sprinkling on roads to	Yes	Yes	Mechanically

	control airborne dust		propelled water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is good. During swachata special campaign, development of Heritage Site Jambuwanti Cave and View Point has been developed alongwith extensive plantation work.	

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
9.1	Status of submission of Monthly and Annual returns	M.R. Submitted up to –December-2024 on 06-01-2025. A.R. for 2023-24 submitted on 08-06-2024.	

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	Mines Manager/Geologist- Shri. P. K. Deshpande Mining Engineer- Shri. A. R. Panda		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Mining- 197.45 ha.(including- water reservoir) Mineral Storage- 4.61 ha. Infrastructure (Workshop, Administrative Building etc.)-18.30 ha. Road-1.67 ha. Mineral Separation Plant (Plant Raw Mat. Stock)- 6.62 ha. Township Area-1.93 ha. Reclaimed/rehabilitated-12.39 ha.		
9d	Scrutiny of Annual return on afforestation	Number plants- 8100(inside lease area), Survival rate- 100% 3537 plants(outside lease area), Survival rate- 92.10%		
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 O/S & C/S- NIL Grade wise O/S- 86929.570 T, C/S- 213665.570 T		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value- Nil(captive) EMP- Rs. 231.45/- per tonne Production cost- Rs. 227.78/- per tonne		
9i	Scrutiny of Annual return on fixed assets	₹ 91993979		
9k	Scrutiny of Annual return on mining machineries	1. Back Hoe-0.9 CUM-1 2. Shovel (Hydraulic)-2 3. Dumper 35Tonne-4. 4. Dozer (320 HP)-1. 5. Surface Miner (900 HP)-01. 6. Dumper 25 Tonne-12. 7. Wheel Loader (1.7 CUM)-3. 8. Drill (152 MM) - 1. 9. Explosive Van		

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

- No violations were pointed out during last inspection.
- No violations are found during current year inspection.

- c. The Drone data has been submitted on 29-06-2024.
- d. Self-assessment date of Star Rating is 29-06-2024 and Rating given the Lessee is 5. It has been evaluated and given 5 Star.
