

MCDR-MiFLOLST/239/2022-GNR-IBM_RO_GNR
MCDR INSPECTION INFORMATION SHEET

1.0GENERAL

1/23283/2024

S. N.	Particulars	Details
1(a)	Name of the Mine	Adityana Limestone and Marl Mines
1(b)	Name of Inspecting Officer & Designation	Shri Sunil Kumar Sharma, Senior Assistant Controller of Mines, Indian Bureau of Mines, Gandhinagar.
1(c)	Accompanying Mines Representatives	Shri P.K Deshpande, Shri A.R.Panda
1(d)	Type of Inspection	MCDR Inspection
1(e)	Date of Inspection	05.09.2023
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	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. Regd.Office Address :-Near Railway Station Ranavav 360560,Dist.-Porbandar, Gujarat (India),Phone-02801-234200, Email: -scl-rnv@mehtagroup.com, Fax:-02801-234376/234384.
6	Village	Adityana,& Ranavav
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pin code	360560
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	First renewal on 22.11.1976 as per order no. MCR-1576(S-102)/8192/CHH. 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	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).
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Second Renewal:18-09-1995(Under Deemed renewal), Third Renewal:02-03-2015. (Extended until 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	Shri M.S Gilotra Address:-2 nd floor ,N.K Mehta International House 178,Back bay Reclamation, Babubhai Chinai Road, Mumbai-400020, Phone No: -Office No:022 – 66365310, Fax: - 022-66365445/22048122. Email:-msgilotra@mehtagroup.com Date of Appointment: – 15.10.2004.
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	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.
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	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.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	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.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 &	Yes

	carrying out MCDR Res No. 16 of 2019/2022-GNR-IBM_RO_GNR 57.	
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 Mining Plan :- 27-01-2021 Vide letter No. 684(4) (1)/MP-298/2020-21-GNR Period: - 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.	NA
27	Mineral(s) granted in lease and proved for mining	Limestone & Marl
28	Method of Mining(Opencast, Underground)	Opencast
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 (2022-23)	Actual work (2022-23)	Remarks
1a	Backlog of previous year	No proposal	Not Applicable	Exploration work completed in Feb.2021. After the samples, analysis by NABL Lab, and reserve/ resources updation process is completed in the last financial year 2022-23. The reserve was updated as on 01.04.2023, after completion of Phase-V, final exploration. In phase V 42 boreholes were drilled and 1033 meter drilling was carried out. Total 161 boreholes were drilled in entire lease area and 4182.46 meters drilling were carried out. Reserves/ resources are increased due to exploratory drilling was carried out.
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 01.04.2023	As per Mining plan as on 01.04.2020 Limestone (million tonnes) G1 – 139.23 G2 – 42.33 G3 – 25.22 Marl (million tonnes) G1 – 36.52 G2 – 1.03 G3 – 0	Exploration Status as on 01.04.2023 Limestone (million tonnes) G1 – 210.954 Marl (million tonnes) G1 – 27.72 UNFC code wise reserves/resources Limestone (million tonnes) (111)– 108.53 (121)– 92.64 (211)– 9.77 Marl (million tonnes) (111)–12.11 (121)– 15.37 (211)– 0.24	
1f	General remarks of inspecting officer on geology, exploration etc.	The whole lease area is explored in G1 level.		

2.0 Development-

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
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		MCDR- Marl Limestone-39/2022-GNR/FBM- ROM GNR		As per proposal	
2a (i)	Location of development w.r.t. lease area	I) S3.7 – N2.7toW4.7–E0.8 II) N4.1– N5.6toW0.2 –W3 III) N5.6– N8.1 toW3- E1 IV) N8.1 – N10.4toW1.5 – W3 For Marl- I) S 2.7 – S 4.8 to E 5.8– E8.6 I) S.1.6– N0.0 to E 2.8 – E 4.3	I) N4.1 – N5.6 to W0.2 - W3 II) N5.6 – N8.1 to W3 – E1 III) N8.1 – N10.4to W1.5 – W3 For Marl- I) S 0.2 – S3.5 to E4.7 – E6.3		
2b	Separate benches in topsoil, over-burden and mineral(Rule 15)	NA	NA	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	NA	NA	No top soil generation	
2e	Quantity of overburden generation in m3	NA	NA	No overburden generation	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	There is no overburden generation.			

3.0 Exploitation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
3a	Number of pits proposed for production	03	03	Pit-1 limestone & Pit-2, 3 for marl.
3b	Quantity of ROM mineral production proposed	Limestone- 1783530	Limestone- 1405800	Less production in line of captive plant requirement. Marl working was affected due to water logging problem due to excessive down pouring during monsoon.
		Marl- 404945	Marl- 78054	
3c	Recovery of saleable/usable mineral from ROM production	NA	NA	-
3d	Quantity of mineral reject generation	NA	NA	No mineral reject generated
3e	Grade of mineral reject generation and threshold value declared	NA	NA	-
3f	Quantity of sub-grade mineral generation	NA	NA	Marl is an associate mineral.
3g	Grade of sub-grade mineral generation	NA	NA	-
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	-
3j	Provision of drilling & blasting in mineral benches	Hole Dia-150mm, spacing -5m, burden-4m, use of slurry(both column and base charge)	Nil	No blasting since February -2017.
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.	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)-	-

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		CUM)-3. 8. DRILL (152 MM) - 1. 9. Explosive Van, Maintenance Van-2 10. Bolero & pick up Van-2 11. Hydra-1 12. Lighting Tower-3		8. DRILL (152 MM) - 1. 9. Explosive Van, Maintenance Van-2 10. Bolero & pick up Van-2 11. Hydra-1 12. Lighting Tower-3	
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	181.18 Ha.	177.25 Ha.	-	
3n	Ore to OB ratio for the pit/mine during the year	1:0.0	1:0.0	No OB	
3o	Total area put in use under different heads at the end of year	Opencast working- 181.18 ha.(including- 6.45ha rehabilitated water reservoir, 5.94ha rehabilitated by plantation) Infrastructure -18.7ha, road-1.49 ha. Others - Mineral Stack-3.1 ha & Plantation on virgin lease area-38.61 ha (non-minable area-Statutory barrier& green belt)	Opencast Working- 177.25 ha.(including-6.45ha rehabilitated water reservoir, 5.94ha rehabilitated by plantation) Infrastructure -18.7 ha, road-1.01 ha. Mineral Stack-4.61ha, Town ship-1.93ha, Others -6.63, Plantation-35.30 ha on virgin, non-minable area – statutory barrier & green belt.	-	
3p	Production of ROM mineral during last five-year period, as applicable	2018-19	2302384	2018-19	1816013
		2019-20	2227513	2019-20	1464241
		2020-21	2054450	2020-21	1482307
		2021-22	2182603	2021-22	1974060
		2022-23	2188475	2022-23	1483854
3q	General remarks of inspecting officer on method of mining etc.	-			

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	NIL	NA	-
4b	Location of topsoil, OB & mineral reject dumps	NIL	NA	-
4c	Number of dumps within lease area and outside lease area	NIL	NA	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NA	-
4e	Number of active & alive dumps	NIL	NA	-
4f	Number of dead dumps	NIL	NA	-
4g	Number of dumps stabilised	NIL	NA	-
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	NA	-
4i	Length of Retaining wall or garland drain all along dump	NIL	NA	-
4j	Number of settling ponds	NIL	NA	-
4k	Specific comments of inspecting officer	No Solid waste has been dumped in 2022-23 as reported during inspection		

5.0 Solid Waste Management-Backfilling

S N	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Not carried out	-

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5b	Area under backfilled mined out area			
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	NA	No top soil, mineral is out cropped except incidental soil in variable patches used in plantation
5d	Total area fully reclaimed & rehabilitated	0	-	As on 01/11/2019. No back filling thereafter.
5e	General remarks of inspecting officer on backfilling, reclamation etc	-		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	Actual work (2022-23)	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	On Dt. 10/06/2023.
6b	Management of worked/mined out benches	-	-	-
	i) Area available for rehabilitation (ha)			
	ii) Afforestation done (ha)	3.65 Ha	3.65 Ha	Green belt -0.50 Ha, Plantation on non-minable virgin land- 2.45Ha& 0.7ha Crusher Garden
	iii) No. of saplings planted during the year	9200	9250	-
	iv) Cumulative no. of plants	57350	112775	Cumulative figures form Mining plan period (01-04-2021 to 31-03-2026)
	v) Any other specific method of rehabilitation	NA	NA	
vi) Cost incurred on watch & care during the year	Rs.200000/-	Rs.1131918/-	Aftercare & protection Fencing cost	
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	NA	NA	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	-
6f	General remarks of inspecting officer on PMCP compliance & progressive	Plantation work is being carried out at the periphery of lease boundary as proposed in PMCP.		

7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Limestone and Marl are sorted out from dispatched ROM.	Limestone and marl are dispatched separately as follows: Limestone-1630750	-

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA
7c	Different grade of mineral sorted out at mines	NA	NA
7d	Any beneficiation process at mines	NA	NA
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Overall operations found satisfactory.	

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	No top soil
8b	Concurrent use or storage of topsoil	No proposal	NA	Whatever incidental soil got during mining is used in plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	NA	No, OB, Mineral reject
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NA	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Pit will be partly reclaimed by plant generated waste and / or water reservoir	Water reservoir is being prepared, 9,250 sapling were planted along the lease boundary and fencing was done.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Total numbers of tree to be planted-9200(2022-23) Already planted nos-112775 (as on 1/4/2022)	Total Plantation done - 9250 during the year 2022-23.	-
8g	Survival rate	85 %	93.06	-
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Water sprinkling is carried out to control airborne dust by means of mechanically propelled water tanker.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area was good.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
9.1	Status of submission of Monthly and Annual returns	M.R. Submitted upto -March-2022 (06.04.2022) A.R. to be submitted be shortly.	

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	Yes	-	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	-	
9d	Scrutiny of Annual return on afforestation	Yes	-	
9e	Scrutiny of Annual return on mineral reject generation (Grade	Yes	-	

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& quantity) MCDR-MiFLOLST/239/2022-GNR-IBM RO GNR			
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Yes	-
9i	Scrutiny of Annual return on fixed assets	Yes	-
9k	Scrutiny of Annual return on mining machineries	Yes	-

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

Presently no significant violation observed & pointed out.

(Sunil Kumar Sharma)
Sr. ACOM
