

MCDR INSPECTION INFORMATION SHEET

1.0 GENERAL

S. N.	Particulars	Details
1(a)	Name of the Mine	Adityana Limestone and Marl Mines
1(b)	Name of Inspecting Officer & Designation	Shri Darshan Deep Bhardwaj, Senior Asst. Controller of Mines
1(c)	Accompanying Mines Representatives	Shri P.K Deshpande
1(d)	Type of Inspection	Star Rating
1(e)	Date of Inspection	08.09.2021
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 Address :-Near Railway Station Ranavav 360550,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	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	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 till 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-4000020, 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 & carrying out their duties as per rule 56 & 57.	Yes

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 :- 01.11.2019 Vide letter No. 684(3) (1)/MP-249 (158)/2019-20-GNR/ 2053, Period: - 2019-20 to 2020-21 (W.E.F. 01-11-2019).
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 (2020-21)	Actual work (2020-21)	Remarks
1a	Backlog of previous year	39 bore holes(975 M - 1170 M) at average depth of 25-30 M	41 bore holes(1007 M)	Exploration work completed in Feb.2021.
1b	Exploration over lease area for Geological axis 1 or 2.	N.A	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	-	B. K. Diamond Core drilling Syndicate Co. & others up to date expenditure is Rs. 16, 08,690/-.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2-90.6 ha, G3-102ha	G2-90.6 ha, G3-102ha	
1e	Balance reserves as on 01.04.2021	In Million tones Limestone Proved 85.11 Probable 79.86 Marl Proved 17.39 Probable 17.21		
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration of area done with 41 borehole in Feb 2021		

2.0 Development-

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
2a (i)	Location of development w.r.t. lease area	For Limestone- I) N1.26 -4.12 TO W1.06 -W3.15 II)S1.96- N4.40 TO E1.39 - E2.05 III)N4.12 - N5.87 TO W1.90 – W 4.96 IV) S4.25 -N3.51 TO W5.51 - E1.14 For Marl- S1.8-S5.9 TO E4.6 - E6.4	For Limestone- I) N1.26 -4.12 TO W1.06 -W3.15 II)S1.96- N4.40 TO E1.39 - E2.00 III)N4.00 - N5.80 TO W1.90 – W 5.0 IV) S4.25 -N3.50 TO W5.50 - E1.20 For Marl- S1.67-S4.11 TO E4.86-E5.75	As per proposal

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.	Development of pit is done as per the proposals.		

3.0 Exploitation

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
3a	Number of pits proposed for production	03	03	Pit-1,2 for limestone, Pit - 3 for marl.
3b	Quantity of ROM mineral production proposed	Limestone- 1682450	Limestone- 1432407	Less marl production due to excessive rain caused water logging, limestone production as per captive plant requirement.
		Marl- 372000	Marl- 49900	
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 can be considered as subgrade mineral as it has no other use without blending with limestone for cement manufacturing
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)	NA	No blasting since February -2017.
3k	Provision of mining machineries in mineral benches	1. BACK HOE-0.9 CUM-1 2. SHOVEL (HYDRAULIC) 3.90CUM-2. 3. DUMPER 35Tonne-5. 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.	1. BACK HOE-0.9 CUM-(1) 2. SHOVEL (HYDRAULIC) 3.90CUM-(1),4.0CUM(1) 3. DUMPER 35Tonne-5. 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.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	6m-bench height is maintained
3m	Total area covered	166.36 Ha.	166.36 Ha.	

	under excavation/pits				
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	Pit- 166.36 ha.(including-3.5ha rehabilitated water reservoir) Infrastructure-18.7ha, road-1.49 ha. Others -Mineral Stack-3.1ha & Plantation-62.43 ha (reclaimed-5.94ha, non-minable area & green belt on virgin land-56.49ha.)	Pit- 166.36 ha.(including-3.5ha rehabilitated water reservoir) Infrastructure-18.7ha, road-1.49 ha. Others -Mineral Stack-3.1ha & Plantation-62.43 ha (reclaimed-5.94ha, non-minable area & green belt on virgin land-56.49ha.)		
3p	Production of ROM mineral during last five-year period, as applicable	2016-17	2259040	2016-17	2056906
		2017-18	2201920	2017-18	1746383
		2018-19	2302384	2018-19	1816013
		2019-20	2227513	2019-20	1464241
		2020-21	2054450	2020-21	1482307
3q	General remarks of inspecting officer on method of mining etc.	Production is less than the proposal due to captive requirements.			

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	NA	NA	No top soil & OB
4b	Location of topsoil, OB & mineral reject dumps	NA	NA	No top soil & OB
4c	Number of dumps within lease area and outside lease area	NA	NA	No top soil & OB
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	No top soil & OB
4e	Number of active & alive dumps	NA	NA	No top soil & OB
4f	Number of dead dumps	NA	NA	No top soil & OB
4g	Number of dumps stabilised	NA	NA	No top soil & OB
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer	No solid waste is generated as entire ROM is used for cement manufacturing.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Partial	Partial	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	No top soil, mineral is out cropped except incidental soil in variable patches used in plantation
5d	Total area fully reclaimed & rehabilitated	6.0 Ha	5.94 Ha	As on 01/04/2020.

5e	General remarks of inspecting officer on backfilling, reclamation etc	
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6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2020-21)	Actual work (2020-21)	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	Attached in annexure-I
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	2.32	2.32	Plantation on worked out benches during the year
	ii) Afforestation done (ha)	2.32	2.32	
	iii) No. of saplings planted during the year	3200	3570	
	iv) Cumulative no. of plants	6400	6660	
	v) Any other specific method of rehabilitation	NA	NA	
	vi) Cost incurred on watch & care during the year	Rs. 1000000	Rs. 1197547	
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	PMCP report is submitted .		

7.0 Mineral Conservation

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral despatch to captive plant after crushing	Limestone-1506509 Tonnes, Marl-300116 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	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			

8.0 Environment

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	No top soil
8b	Concurrent use or storage of topsoil	NA	NA	Whatever incidental soil got during mining is used in plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	No, OB, Mineral reject
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	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	Progressive restoration as per PMCP	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Total numbers of tree to be planted-6400 (including already planted nos-104275).	Total Plantation done - 110935 (including 6660 in plan period)	During mod. plan period
8g	Survival rate	85 %	91.90 %	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	Mechanically propelled water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	. Beauty around lease area is 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 up to ---- Aug-2021 A.R. submitted up to---- 2020-21	

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	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	Found in order	
9d	Scrutiny of Annual return on afforestation	yes	Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	yes	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	yes	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	yes	Not found in order and violation issued for ex mine price.	
9i	Scrutiny of Annual return on fixed assets	yes	Found in order	
9k	Scrutiny of Annual return on mining machineries	yes	Found in order	

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

During inspection violation of Rule 31(4) & 45(7) found and violation letter is issued for rectification of the same.
