

INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Adityana Limestone & Marl Mines
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Sh. P.K. Deshpande, Mines Manager & Sh. A.R.Panda, ME
1(d)	Type of Inspection	Star Ratings
1(e)	Date of Inspection	05.07.2017
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	643.02 Hectare (Govt. waste Land) Forest- Nil
3	Mine code	38 GUJ 08254
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/280/2011
5	Name of the lessee, Address, phone, email and fax number	Saurashtra Cement Ltd, PO: Ranavav, Dist. Porbandar 02801-304232, Fax: 02801-304200 scl-rnv@mehtagroup.com
6	Village	Ranavav
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pin code	360 560
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	09.03.1957
16	Date of opening of Mine	27-10 - 1960
17	Date of first Renewal, if applicable and its period & expiry	20 -10 -1976, Twenty years. 19- 10 -1996 Due to reduction in area, mining lease deed was executed 14 th March,1977 for further 20 years.
18	Date of second Renewal, if applicable and its period & expiry	Under deemed renewal, 31- 03-2030 (As per No. MCR- 1576-(S-102)-8192-Chh. 1, Dt.24-10-2017)
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Second Renewal: Dt.18-09- 1995, Third Renewal : Dt. 02-03-2015.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sh. M S Gilotra 2 nd floor, N.K. Mehta Intl. House 178, Backbay Reclamation, Babubhai Chinai Road, Mumbai, - 400 020, Fax: 022-22048122 Ph. No. 022-66365444 scl-rnv@mehtagroup.com Dt. of App. 01.11.1995
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sh. Narendra Singh SCL, Nr. Railway Station Ph. No. 02801- 304200, Fax: 02801 - 304376-84 scl-rnv@mehtagroup.com Dt. of App. 21/06/2016
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sh. P K Deshpande SCL, Nr. Railway Station, Ph. No. 02801-304232 Fax:02801-304376-84, pkdeshpande@mehtagroup.com Dt. of App. 17.08.2007
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sh. A R Panda SCL, Nr. Railway Station, Ph. No. 02801-304352 Fax: -02801-304376-84 arpanda@mehtagroup.com Dt. of app. 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, Geologist and Mining Engineer appointed as per rule 55 of MCDR,2017
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining Plan with PMCP approved vide letter No-682(23) (MS-583)/2010-MCDR (U))/UDP for the period 2016-17 to 2020-21 on dtd. 25 – 07-2016.

26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	No
27	Mineral(s) granted in lease and proved for mining	Limestone , Marl (Marl mineral has been included in ML Lease deed),
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 (2016-17)	Actual work (2016-17)	Remarks
1a	Backlog of previous year	NA	NA	No Proposal
1b	Exploration over lease area for Geological axis 1 or 2.	NA	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	169.02hectare (G3)	NA	Proposal given for the year(2018-19)
1e	Balance reserves as on 01.04.2017	Limestone Proved: 49.51 Probable: 44.29 Possible : 66.40	Limestone Proved: 49.66 Probable: 44.29 Possible : 66.40	In Million Tons.
		Marl Proved: 10.573 Probable: 1.90 Possible: 6.26	Marl Proved: 11.16 Probable: 1.90 Possible : 6.26	
1f	General remarks of inspecting officer on geology, exploration etc.	All the explorations carried out in the past meets the criteria/norms of MEMC Rules,2015		

2.0 Development

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
2a	Location of development w.r.t. lease area	Limestone N758-N856 & E800-E1000 N111-N528 & E245-E626 N145-S70 & E42-E377 N21-S332 & E696-E1379 N562-N107 & E525-E712	Mine working done over the proposed location with very minor variation.	Working carried out as per the proposed locations.
		Marl N523-N365&E1120-E1419 N353-N86 & E800-E882	Within Proposal	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposals for separate benches	Not applicable	No Top soil & Overburden encountered in ML area
2c	Stripping ratio or ore to OB ratio	Not Applicable	Not Applicable	
2d	Quantity of topsoil generation in m3	Not Applicable	Not Applicable	
2e	Quantity of overburden generation in m3	Not Applicable	Not Applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No violations pointed out in this regard during site inspection.		

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
3a	Number of pits proposed for production	In 2 (Two) pits as earmarked in relevant plates	Mine working is done as per the proposals	

3b	Quantity of ROM mineral production proposed	Limestone-1671840 Ton Marl-587200 Ton	Limestone-1528219 Ton Marl-527476.83 Ton	
3c	Recovery of salable/usable mineral from ROM production	Not Applicable	Not Applicable	ROM is being consumed/utilized in view given Threshold Values
3d	Quantity of mineral reject generation	Not Applicable	Not Applicable	
3e	Grade of mineral reject generation and threshold value declared	Not Applicable	Not Applicable	
3f	Quantity of sub-grade mineral generation	Not Applicable	Not Applicable	
3g	Grade of sub-grade mineral generation	Not Applicable	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Applicable	Not Applicable	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Applicable	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	Hole Dia-150mm, Spacing-5m, Burden-4m, use of slurry(both column & base charge)	Same as per proposal (deep hole drilling & blasting)	Rarely resorted where surface miner operation is not possible
3k	Provision of mining machineries in mineral benches	Surface Miner-1, Loader-3, Excavator-2,Dumper-10,Drill-1	Surface Miner, Loader, Excavator and Dumper combination being adopted.	
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	155.30 (Cumulative)	150.17 (Cumulative)	
3n	Ore to OB ratio for the pit/mine during the year	Not Applicable	Not Applicable	No OB encountered
3o	Total area put in use under different heads at the end of year	Pit-155.3, Infrastructure,road-20.19, Other(Mineral stack, Plantation)-48.15	Pit-150.17,Infrastructures-20.19, Others(mineral stack, Plantation)-51.45	
3p	Production of ROM mineral during last five-year period, as applicable	<u>Limestone</u> 2012-13:1433680MT 2013-14:1434219MT 2014-15:1555790MT 2015-16:1680064MT 2016-17:1671840MT <u>Marl</u> 2012-13:774378MT 2013-14:771434MT 2014-15:690968MT 2015-16:530161MT 2016-17:587200MT	<u>Limestone</u> 2012-13:1230558MT 2013-14:1358319MT 2014-15:1489932MT 2015-16:1307863MT 2016-17:1528219MT <u>Marl</u> 2012-13:1107037MT 2013-14:226687MT 2014-15:14333MT 2015-16:527476MT 2016-17:528686MT	
3q	General remarks of inspecting officer on method of mining etc.	Systematic benching pattern by deploying surface miner noticed and dumper combination observed during inspection.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not applicable	Not applicable	No top soil, OB,
4b	Location of topsoil, OB & mineral reject dumps	Not Applicable	Not Applicable	
4c	Number of dumps within lease area and outside lease area	Not Applicable	Not Applicable	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Applicable	Not Applicable	mineral reject encountered during mining operation
4e	Number of active & alive dumps	Not Applicable	Not Applicable	
4f	Number of dead dumps	Not Applicable	Not Applicable	
4g	Number of dumps stabilised	Not Applicable	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Applicable	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	Not Applicable	Not Applicable	No top soil, OB, mineral reject encountered during mining operation
4j	Number of settling ponds	Not Applicable	Not Applicable	
4k	Specific comments of inspecting officer	No top soil, OB, mineral reject encountered during mining operation hence most items are not applicable		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Mineral extracted & Mined out area	Backfilling is not applicable as no OB in the area	
5b	Area under backfilling of mined out area	2 Hectare	1.8 Hectare	Plant Waste used for backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Applicable	Not Applicable	No Top Soil in the area
5d	Total area fully reclaimed & rehabilitated	2 hectare	1.8Hectare	Plant Waste used for backfilling
5e	General remarks of inspecting officer on backfilling, reclamation etc	No comments		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
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	Report submitted within time limit as per prescribed format.	
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)2Heactre (ii) 2Heactare (iii) saplings-3000Nos.	(i) 1.8heactre reclaimed (ii) 2.2 Hectare (iii)Saplings planted-3050nos. (IV) Nos. of saplings Planted-97575(within lease) (v) Rs.82.17Lakhs	Survival rate & caring of saplings found satisfactorily
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	(i) Area (300X70X2.5)	(i)) Area(300X70X2.5) (ii)Area(250X75X2.5) (iii) 1.8 Hectare(sapling-2400Nos.) (iv) 2.5Hectare	

	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	Not Proposed	(i) 0.4Hectare by afforestation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes(Rs.9.2Lakh)	Rs.6.79Lakh Monitoring is being carried out as per IBM guidelines	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Under the previous PMCP proposals bricks-cement wall all along mining lease boundary have been constructed by the lessee.		

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not Applicable hence not proposed	Not Applicable	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Applicable hence not proposed	Not Applicable	
7c	Different grade of mineral sorted out at mines	Not Applicable hence not proposed	Not Applicable	
7d	Any beneficiation process at mines	Not Applicable hence not proposed	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Marl mineral below the threshold value of Limestone is being judiciously by the lessee by blending with high grade limestone		

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Applicable	Not Applicable	No top soil encountered
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Applicable	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Pit be partly reclaimed by plant generated waste and/or water reservoir	As per proposal	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	3000	3050	Good aesthetic view near crusher & Mines office
8g	Survival rate	92%	83.6%	

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 are	Overall plantation work is carried out in very well manner and good aesthetic view by lush plantation is observed		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – NOV-17 A.R. submitted upto- 2016-17		
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	Sh. A R Panda, ME Dt. of app. 01.10.2013	Geologist and Mining Engineer appointed as per rule 55 of MCDR,20107	During the inspection it was advised to Mine representative to submit the AR & MR correctly for correct cost of production & Ex mine price as per the guidelines in future.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-155.3, Infrastructure,road-20.19, Other(Mineral stack, Plantation)-48.15	Pit-150.17,Infrastructures-20.19, Others(mineral stack, Plantation)-51.45	
9d	Scrutiny of Annual return on afforestation	3000 saplings proposed for the year with 92% as survival rate	Achieved 3050 saplings with overall survival rate of 83.6%	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Applicable as no grade wise generation of material not proposed	Not applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not given	Not given	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	<u>Limestone</u> -Ex-mine price & cost of production Rs-187.95/MT <u>Marl</u> -Ex-mine Price & cost of production Rs-151.76/MT & Cost of production is Rs-7	<u>Limestone</u> -Ex-mine price & cost of production Rs-187.95/MT <u>Marl</u> -Ex-mine Price & cost of production Rs-151.76/MT & Cost of production is Rs-7	
9i	Scrutiny of Annual return on fixed assets	Given	Given separately for Mines & Plant	
9k	Scrutiny of Annual return on mining machineries	Surface Miner-1, Loader-3, Excavator-2,Dumper-10,Drill-1	Surface Miner, Loader, Excavator and Dumper combination being adopted.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -The last inspection of mine was carried out on dtd 26.05.2016 and violations of rules 13(1), 25(5)(b) & 45(5)(b)(viii) were observed and these violation rectified by the lessee vide letter No-QRY/84/2016 dtd 20.06.2016. This inspection was carried out for evaluation of online templates filled by the lessee for the year 2016-17. No violations were pointed out during the said inspection.
