

## INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Sidhee Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non Forest - 253.8542 Ha Forest - Nil
3	Mine code	38GUJ08099
4	IBM Registration Number under rule 45 of MCDR, 1988	IBN/304/2011
5	Name of the lessee, Address, phone, email and fax number	Corporate Off: M/s Gujarat Sidhee cement Ltd, Agrima Business Centre, NKM International House, 178 Backbay Reclamation, Mumbai 400 020.
6	Village	Prashnawada & Morasa
7	Taluka/Mandal	Sutrapada
8	District	Gir Somnath
9	Pincode	362276
10	State	Gujarat
11	Post office	Sidheegram
12	Nearest police station	Sutrapada
13	Nearest Railway station	Somnath
14	Date of Grant of Mining Lease	05.12.1985
15	Date of Execution	11.02.1987
16	Date of opening of Mine	12.02.1987
17	Date of first Renewal, if applicable and its period & expiry	N/A
18	Date of second Renewal, if applicable and its period & expiry	N/A
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	25/01/2006 Form J
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. M.S. Gilotra M/s Gujarat Sidhee cement Ltd, Agrima Business Centre, NKM International House, 178 Backbay Reclamation, Mumbai 400 020. Maharashtra, India. Date of appointment 28.05.1999
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Dinesh G. Randad M/s Gujarat Sidhee cement Ltd, Sidheegram, Off Veraval-Kodinar Highway, Morasa, Sutrapada Taluka, Gir Somnath Dist. Pin code: 362276 Gujarat. 02876268206.: Date of appointment: 16.09.2015
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Rajeev Ranjan Singh, Sidhee Lime Stone Mine, Morasa, Sutrapada Taluka, Gir Somnath Dist. Pin code: 362276 Gujarat. Phone; 02876-268240. Fax: 02876-268240 Date of appointment: 11.11.2013

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Rajeev Ranjan Singh, BE Mining, Mining Engineer M/s Gujarat Sidhee cement Ltd, Sidheegram, Off Veraval Kodinar Highway, Morasa, Sutrapada Taluka, Gir Somnath District Date of appointment 01.04.2017
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	As per rule 42 Geologist & Mining Engineer appointed & carrying out duties as per rule 43 & 44 Geologist: Mr. E Kuppusamy, MSc – Geology Date of appointment:03.03.2017
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	No. 682(23)/MS-457/06 MDRD(U)/GNR dated 17.02.2017, Period: (2017-18 to 2021-22)
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	Lime stone & 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 (2016-17)	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	-
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Nil	-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	Nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Nil	-
1e	Balance reserves as on 01.04.2017		<b>Lime stone</b> 111 - 8.68 Mil Tons 211- 4.51 Mil Tons 222 – 0.5 Mil Tons 332 – 2.03 Mil Tons <b>Total – 15.72 M.Tons</b> <b>Marl</b> 111 – 5.20 Mil Tons	

			211- 1.77 Mil Tons 222 – 0.15 Mil Tons <b>Total – 7.12 Mil Tons</b>	
1f	General remarks of inspecting officer on geology, exploration etc.			

### **2.0 Development**

SN	Item	Proposals(2016-17)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Not proposed	Nil	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	---	----	
2c	Stripping ratio or ore to OB ratio	1: 0.00	1: 0.00	
2d	Quantity of topsoil generation in m3	37026 M <sup>3</sup>	7445 M <sup>3</sup> (8932 Tons)	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No OB reported. Entire ROM of Limestone & marl is utilising by proper blending from outsource Limestone.		

### **3.0 Exploitation**

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	2 Nos. Pit	2 Nos. Pit	Nil
3b	Quantity of ROM mineral production proposed	2.400 Mil T	0.949Mil T	Entire ROM is utilising by proper blending from outsource Limestone
3c	Recovery of salable/usable mineral from ROM production	Not proposed	Nil	
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Nil	
3f	Quantity of sub-grade mineral generation	Not proposed	Nil	
3g	Grade of sub-grade mineral generation	Not proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Nil	

SN	Item	Proposals (2016-17)	Actual work	Remark
3j	Provision of drilling & blasting in mineral benches	Not proposed	Nil	
3k	Provision of mining machineries in mineral benches	List of machineries enclosed	-	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Average 6 M	6 M	
3m	Total area covered under excavation/pits	8.0 Hect	1.85 Hect.	
3n	Ore to OB ratio for the pit/mine during the year	1: 00	1: 00	
3o	Total area put in use under different heads at the end of year	Pit- 188.67 Ha Top Soil Storage – 2.45 Road – 2.68 Hect. Green Belt – 17.80 Hect.	Pit- 175.8419 Ha Recl – 4.89 Hect Road – 4.233 Hect. Green Belt – 15.55 Hect.	
3p	Production of ROM mineral during last five-year period, as applicable	12-13 1.59 Mil T 13-14 1.47 Mil T 14-15 2.40 Mil T 15-16 2.40 Mil T 16-17 2.40 Mil T	12-13 1.59 Mil T 13-14 1.47 Mil T 14-15 1.598 Mil T 15-16 1.252 Mil T 16-17 0.950 Mil T	
3q	General remarks of inspecting officer on method of mining etc.	Due to quality and land encroachment lessee has not carried out mining operation as proposed in approved Mining Plan/Mining Scheme/lagging in achievement.		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Top soil stack is proposed within ML covering 2.45 Ha 1.2 meters height	Proposal followed. Top soil stacked 0.50 Ha	
4b	Location of topsoil, OB & mineral reject dumps	Within in ML, near boundary pillars 4 to 6	Within in ML, near boundary pillars 4 - 6	
4c	Number of dumps within lease area and outside lease area	Not proposed	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Nil	
4e	Number of active & alive dumps	Not proposed	Nil	
4f	Number of dead dumps	Not proposed	Nil	
4g	Number of dumps stabilised	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Nil	
4j	Number of settling ponds	Not proposed	Nil	-

4k	Specific comments of inspecting officer	
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### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	-	-	
5b	Area under backfilling of mined out area	0.50 Ha	Nil	Back filling has already done till 2016-17 of 4.89 Ha.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	37026 m <sup>3</sup>	7463 Metric Tones	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc			

### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2).		Submitted to IBM with in time limit.	-
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) 0.75 Hect ii) 0.75 Hect. iii ) 1500 nos. iv)	113.28 Ha at the end of lease period 2.96 Ha for 3 years 1600	
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	Not Proposed	Nil	

SN	Item	Proposals (2016-17)	Actual work	Remarks
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring for Air, Water and noise	Complied with periodical monitoring of environmental parameters of air & water etc.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	No adverse impact reported.		

### **7.0 Mineral Conservation**

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Cement grade Lime stone- 1.70 Mil T Marl 0.700 Mil T	0.933 Mil T 0.0936 Mil T	No beneficiation plant for up gradation of limestone. Hence not applicable
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Proposed	Nil	
7c	Different grade of mineral sorted out at mines	Not Proposed	Nil	
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	---		

### **8.0 Environment**

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	37026 M <sup>3</sup>	8932 Tons	The generated top soil is being used for plantation work with in lease area.
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.75 Ha	0.75 Ha	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not Proposed	Party has been done the transplant of mango trees.	
8g	Survival rate		81% to 92%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads	Complied with by regularly water sprinkling on haul road	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The sub grade/mineral rejects shown in OB/waste column in annual return, which is incorrect. Advised to lessee to put the correct heads/column in return.		

### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
	Status of submission of Online Monthly and Annual returns	Online M.R. Submitted up to till date. Online A.R. submitted up to till date.		Regular in online return submission.
S. N.	Item	Details GIVEN in A.R. ( 2016-17)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Complied	Party has been submitted the online Annual return on 30.6.17	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land used details- broken up area- 175.8Ha, Reclaimed- 4.89Ha, Infracture- 4.89Ha, Afforestation-15.5Ha	-----	
9d	Scrutiny of Annual return on afforestation	1400 (WML) 3070 (OML)	1400 (WML) 3070 (OML)	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Complied	Complied	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Complied	Complied	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production- 218 Rs./T, Ex mine price-131.56 Rs./T	Complied	
9i	Scrutiny of Annual return on fixed assets	Fixed assets given	Fixed assets given	
9k	Scrutiny of Annual return on mining machineries	HEMM shown as proposed.	HEMM shown as proposed.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- Presently no significant violation observed, lagging in production due to less ROM achievement. Mining Scheme was approved recently on 17.02.2017 for the year 2017-18 to 2021-22.