

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1 (a)	Name of the Mine	Morasa Vavdi Limestone Mine
1 (b)	Name of Inspecting officer /Designation	G. Ram, DCOM
1(c)	Accomp.official	Sh.Rajiv Ranjan,GM,Mines
1(d)	Date & Type of Inspection	04.3.2023 & MMP
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	93.1407ha, Non-Forest,
3	Mine code	38GUJ08345
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/304/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Sidhee Cements Limited, At & PO: Sidheegram, Veraval-Kodinar Highway,Taluka: Sutrapada, District: Gir Somnath, State:Gujarat-362276, <b>Tel.#</b> -(02876),286530/31/32/34 ,rajeevranjan@mehtagroup.com
6	Village	Morasa & Vavdi
7	Taluka/Mandal	Sutrapada
8	District	Gir-Somnath
9	Pin code	362276
10	State	Gujarat
11	Post office	Sutrapada
12	Nearest police station	Veraval
13	Nearest Railway station	Veraval
14	Date of Grant of Mining Lease	30 <sup>th</sup> Dec'1983 & revised order 05.12.1985
15	Date of Execution	09 <sup>th</sup> Jan,2015 & 08.1.2065 As per MMDR Amend. Act,2015
16	Date of opening of Mine	07 <sup>th</sup> Feb,2017
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	<b>Mr. M.S. Gilotra</b> , 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	<b>Mr. Dinesh G. Randad</b> , M/s Gujarat Sidhee cement Ltd, Sidheegram, Off Veraval-Kodinar Highway, Morasa, Sutrapada Taluka, Gir Somnath Dist. 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	<b>Shri Rajiv Ranjan</b> , M/s Gujarat Sidhee cement Ltd, Agrima Business Centre, NKM International House,178 Backbay Reclamation, Mumbai 400 020, Maharashtra, India, 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	<b>Shri Hemendra jain, BE (Mining) FCC</b> , M/s Gujarat Sidhee cement Ltd, Agrima Business Centre, NKM International House,178 Backbay Reclamation, Mumbai 400 020, Maharashtra, India, Date of appointment 07.02.2017
24	Whether Geologist & Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule	Yes,Carrying out duties as per rule 56 & 57 of MCDR,2017. <b>Shri Hem Chandra Srivastava, MSc (Geology)</b> , Date of appointment 03.10.2019
25	Date of Approval of Mining Plan /MMP with five-year period & specific condition	Letter No.684 (4) MP-14/MDRD/ (D)-GNR Dated 11.4.2017 for 2017-18 to 2019-20.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	MMP No. 684(4)(1)/MP-14/2019-GNR, dated 11/04/2017 for three year periods (2017-18 to 2019-20) & RMP No. 684(4)(1)/MP-254/2019-20 GNR/2413 dated 27/11/2019 for three year periods (2020-21 to 2024-25)
27	Mineral(s) granted in lease and proved for mining	<b>Limestone</b>
28	Method of Mining(Opencast, U/G)	Opencast
29	Category (FM, OTFM, Manual)	'A' (Mechanized Opencast)
30	Captive/Non Captive	Captive

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

**1.0 Exploration**

SN	Item	Proposals (2022-23)	Actual work	Remarks
1a	Backlog of previous year	No backlogs previous years.	NIL	
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	Not done	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	<b>NIL</b>		
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL		
1e	Balance reserves as on 01.04.2022	<b>Lime stone</b> (in million tonnes)-11.421 million tonne		
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area is explored by way of worked out pits/Core drilling in G1/G2 level of exploration.		

**2.0 Development**

SN	Item	Proposals (2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area	It was proposed to work- 2306869N-2307627N & 659227E-660030E	Partly done as proposed due to deviated/lagging.	MMP is submitted
2b	Separate benches in topsoil, overburden and mineral rejects	Topsoil is proposed to removing separately. No OB/ mineral rejects	Removing & stacked separately for exclusively plantation purposes	
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.0	
2d	Quantity of topsoil generation m3	Not proposed	NIL	
2e	Quantity of OB generation in m3	Not proposed since area is devoid of OB/waste	Not generated presently	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The lease area is developed by various mine pits for quality of raw mix and plant requirement.		

**3.0 Exploitation**

SN	Item	Proposals (2022-23)	Actual work	Remarks
3a	Number of pits proposed for production	Pit No.1A,1B & 3,4 as earmark in plate No.4C	Partly done as proposed due to deviated/lagging.	MMP is submitted
3b	Quantity of ROM mineral production proposed	<b>Limestone:</b> 1000000 tonnes	<b>Limestone:</b> 577341.560 tonnes	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No subgrade / mineral reject proposed & generated since entire ROM is utilising by way of sizing, sorting & blending.	Not subgrade / mineral reject generated, since entire ROM is utilising.	Mineral rejects is NIL
3e	Grade of mineral reject generation and threshold value declared			
3f	Quantity of sub-grade mineral generation			
3g	Grade of sub-grade mineral generation			
3h	Manual / Mechanised method adopted for segregating ROM	Mechanised method	Mechanised method	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study requires & proposed.	Not done	NIL
3j	Provision of drilling & blasting in mineral benches	No drilling & blasting proposed	No drilling & blasting is being carried out	Eco-friendly mining method
3k	Provision of mining machineries in mineral benches	Surface Miner combination with loader & dumpers	Surface Miner, with loader & dumpers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of bench is 6m & width is more than height proposed by surface miner & dozer & loader	Height of bench is 6m & width is more than height proposed by surface miner & dozer & loader	Bench height & width are optimised
3m	Total area covered under excavation/pits	5Ha/Year 25.0Ha in plan period	Pit-24.29Ha, up to feb23 Road: 1.56 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.0	1:0.0	
3o	Total area put in use under different heads at the end of year.	-----	Pit-24.29Ha Road: 1.56 Ha	

3p	Production of ROM mineral during last five-year period, as applicable	2018-19 =10,00,260T 2019-20 =10,00,109T 2020-21 =10,00,100T 2021-22= 10,00,000T 2022-23=10,00,000T	2018-19=02,65,018T 2019-20=05,77,341T 2020-21=07,10,254T 2021-22= 06,38,937T 2022-23= 203677.3T	Lagging in ROM/ deviated  (Till Feb.23)
3q	General remarks of inspecting officer on method of mining etc.	Mechanised opencast method of mining with Surface Miner / Loader and tipper using & Eco friendly mining method without blasting.		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2022-23)	Actual work	Remarks	
4a	Separate dumping of topsoil, OB & mineral reject	proposed to remove top soil separately	Concurrently utilising in plantaion work	No O/B & rejects generated	
4b	Location of topsoil, OB & mineral reject dumps	Not proposed for the year	NIL		
4c	Number of dumps within lease area and outside lease area	Not proposed, since lease area is devoid of OB	NIL, not applicable		
4d	Location of dumps w.r.t. ultimate pit limit				
4e	Number of active & alive dumps				
4f	Number of dead dumps				
4g	Number of dumps stabilised				
4h	Whether Retaining wall or garland drain all along dumps are there				
4i	Length of Retaining wall or garland drain all along dump				
4j	Number of settling ponds				
4k	Specific comments of inspecting officer				The lease area is devoid of OB/Waste generation, Hence no dump & entire ROM is utilises therefore no mineral rejects generated.

#### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2022-23)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	UPL is not attained till date & hence not proposed.	NIL	No O/B is proposed & generated. Hence backfilling is not feasible.
5b	Area under backfilling of mined out area	Not proposed, since lease area is devoid of OB	NIL, not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area			
5d	Total area fully reclaimed & rehabilitated			
5e	General remarks of l/officer on backfilling, reclamation etc.	Lease area is devoid of OB, No backfilling/reclamation proposed & done. Hence not applicable.		

#### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2022-23)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time/ correctly 26(2).	Annual return on PMCP to be submit before 1July	Annual return submitted with in time.	NIL
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	<b>Proposal:</b> (i) NIL (ii) 0.5000 ha (iii) 500 No (iv) 1153m fencing (v) 120000	<b>Actual:</b> (i) NIL (ii)0.5Ha (iii) 600 (iv) 3287 (v) 30000	
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	-----	No OB/waste generated & hence not applicable.	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not waste land involved & proposed	NIL	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	monitoring as per MOEF & IBM	Regular monitoring has been carried out.	
6f	General remarks of inspecting officer on PMCP compliance	Plantation done both side of haul road, 7.5m of barrier in pit No.2 Env. monitoring is being carried out by third party.		

### 7.0 Mineral Conservation

SN	Item	Proposals (2022-23)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	<b>Limestone:</b> 1000000 tonnes	<b>Limestone:</b> 203677.30T(feb,23)	Entire ROM is utilised as per Plant requirement
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised & Manual means	Mechanised & Manual means	
7c	Different grade of mineral sorted out at mines	Cement grade limestone	Cement grade limestone as per plant requirement	
7d	Any beneficiation process at mines	Not proposed & requires presently	Not done	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no mineral rejects/subgrade generated presently. Entire ROM is utilised by proper sizing & sorting, blending as per buyers requirement. No beneficiation study is requires.		

### 8.0 Environment

SN	Item	Proposals (2022-23)	Actual work	Remarks
8a	Separate removal & utilization of topsoil	Not proposed	NIL	Topsoil is removing separately & utilising for plantation purposes.
8b	Concurrent use or storage of topsoil	Top Soil utilizes for afforestation /plantation	Top Soil is utilized for plantation afforestation.	
8c	Separate dumps for overburden, waste rock, rejects and fines	No OB/Waste & mineral rejects proposed	NIL, since area is devoid of OB/waste	
8d	Use of OB, waste rock, rejects, fines dumps for restoring the land to its original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations			
8f	Baseline information on existence of plantation & additional plantation done	500 Nos. Plantation 500m Fencing	600No 325m	
8g	Survival rate	Survival Rate: 90%	90%	
8h	Water sprinkling on roads to control airborne dust	Proposals have been made for sprinkling on haul road.	Water sprinkling on haul road doing regularly	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The aesthetic beauty of area is mine working pits & plantation done in 7.5m but surrounding area is irrigated land observed.		

### 9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date & A.R. (2021-22) submitted with in time		
S.N	Item	Details GIVEN A.R.(2021-22)	Observation of I/Officer /Actual reported	Remarks
9b	Scrutiny of Annual return for information on ME,MM & Geologist	Details furnished in AR 2021-22	Details given in AR	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			
9d	Scrutiny of Annual return on afforestation			
9e	Scrutiny of Annual return on mineral reject generation			
9f	Scrutiny of Annual return on ROM stock and/or graded ore			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost			
9i	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- Presently mine was inspected for MMP inspection. No significant violation observed & pointed out.