

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1 (a)	Name of the Mine	Pachhtar Limestone Mine (52.60 Ha)
1(b)	Name of Inspecting Officer	Sunil Kumar Sharma, Sr. ACOM
1(c)	Type of Inspection	MCDR & Star Rating Inspection
1(d)	Date of Inspection	15.10.2024
2.	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total ML area - 52.60 Ha. (Non Forest Land)
3	Mine-code	38GUJ07035
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/95/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Shree Digvijay Cement Co. Limited, Digvijaygram, District: Jamnagar, State: Gujarat, Pin code: 361140, Phone 0288-2344272-75
6	Village	Pachhtar
7	Taluka/Mandal	Bhanwad
8	District	Jamnagar
9	Pin code	361140
10	State	Gujarat
11	Post office	Bhanwad
12	Nearest police station	Bhanvad
13	Nearest Railway station	Bhanvad
14	Date of Grant of Mining Lease	18/06/1983
15	Date of Execution	07/11/1983
16	Date of opening of Mine	01/07/1987
17	Date of first Renewal, if applicable and its period & expiry	Lease term extended till 17/06/2033 vide MCR-1581-(D-82) GOI-15-chh-1 dated 02/02/2018
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	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri R Krishna Kumar, C.E.O & M.D Shree Digvijay Cement Co. Ltd. Digvijaygram, Jamnagar Phone No: 0288-2344072-75 r.krishnakumar@digvijaycement.com, Fax no 0288 -2344092; Date of appointment 16.12.2023
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Manish Kumar Upadhyay, Shree Digvijay Cement Co. Ltd., Digvijaygram, Jamnagar Phone No: 0288-2344072-75 manishkumar.upadhyay@digvijaycement.com Fax no: 0288-2344092 Date of appointment 16.12.2023
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Biswajit Kar, Sr. Manager (Mines) Pachhtar Limestone Mines, Shree Digvijay Cement Co. Ltd, Village - Pachhtar, Taluka-Bhanvad, Dist.- Devbhumi Dwarka; Mobile -9875156625, Email-biswajit.kar@digvijaycement.com Date of appointment - 16.12.2023
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax	Jitendra Kumar Sinha , AMIE(Mining) & Second-Class Mines Manager Certificate. Experience – 11 Years.

	number and date of appointment in mine	Pachhtar Limestone Mines, Shree Digvijay Cement Co. Ltd. Village - Pachhtar, Taluka-Bhanvad, Dist.- Devbhumi Dwarka, Mobile-9099037926, Email -jitendrak.sinha@digvijaycement.com Date of appointment -01.07.2014
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes. Geologist –Mohammad Arzoo Mining Engineer - Jitendra Kumar Sinha
25	Date of Approval of Mining Plan/ Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23) (312)/2004-UDP dated 24.06.2004 for the period of 07.11.2003 to 06.11.2008 684(4)(1)/MP-92/2017-GNR, dated 13.02.2018 for the period of 01.04.2018 to 31.03.2023 684(4)(1)/MP-277(92)/2020-21-GNR/1048, dated 08.10.2020 for the period of 01.04.2020 to 31.03.2023 (Modified Mining Plan) MCDR-MPCP0CaFI/24/2022-GNR-IBM_RO_GNR Dt : 09/12/2022 for the period of 01.04.2023 to 31.03.2028 (2023-24 to 2027-28)
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	682 (23)/MS-462/2008-MCCM(N) Udp Dated.24/03/2009 for the period 2008-09 to 2012-13. Modified 682 (23)/MS-516/2009-MCCM(N) Udp Dated.25/01/2010, for the period 2008-09 to 2012-13. No 682 (23)/MS-516/2009-MCCM(N) Udp Dated.26.07.2013, for the period 2013-14 to 2017-18
27	Mineral(s) granted in lease and proved for mining	Limestone
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 (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	No Proposal	Nil	-
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	Nil	-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	Nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	Nil	-
1e	Balance reserves as on 31.03.2024 (in Mio. Metric Tonne)	UNFC Code	Reserves/Resources	-
111		5.62 million tonne		
121		5.29 million tonne		
221		3.39 million tonne		
Total		14.32 million tonne		
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area is mineralised zone and already explored in the G-1 category		

2.0 Development

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	N 2417025 - N2417892 E 571463 - E 572156	As per proposal	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No OB & topsoil bench proposed	As per proposal	-
2c	Stripping ratio or ore to OB ratio	1:0	1:0	-
2d	Quantity of topsoil generation in m ³	No Proposal	Nil	-
2e	Quantity of overburden generation in m ³	No Proposal	Nil	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	During the inspection, it was found that there is no topsoil, and overburden generated in mining operation.		

3.0 Exploitation

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	One pit	One pit	-
3b	Quantity of ROM mineral production proposed	7,00,000 MT	6,99,188.60MT	-
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposal	As reported no mineral reject generated	-
3e	Grade of mineral reject generation and threshold value declared	No proposal	As reported no mineral reject generated	-
3f	Quantity of sub-grade mineral generation	No proposal	As reported no sub-grade mineral reject generated	-
3g	Grade of sub-grade mineral generation	No proposal	As reported no sub-grade mineral reject generated	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal for mineral segregation.	As reported No mineral segregation done.	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	-
3j	Provision of drilling & blasting in mineral benches	No proposal	Nil	-
3k	Provision of mining machineries in mineral benches	Ripper-Dozer, Excavator, dumpers	Ripper-Dozer, Excavator, dumpers	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed	Yes No bench in OB Mineral bench- 6m	Yes No bench in OB Mineral bench- 6m	-

	in MP/SOM			
3m	Total area covered under excavation/pits	Pit- 29.630Ha	Pit- 29.630 Ha	-
3n	Ore to OB ratio for the pit/mine during the year	1:0	1:0	-
3o	Total area put in use under different heads at the end of year	Pit- 31.37 Ha Road 1.59 Ha Total 32.96	Pit- 29.630 Ha Road 1.57 Ha Total: 31.20 Ha.	-
3p	Production of ROM mineral during last five-year period, as applicable	2018-19-321,541 2019-20 -309,918 2021-22- 500,000 2022-23- 500,000 2023-24- 700,000	2018-19- 269,716.70 2019-20- 309,181.38 2021-22- 499,796.771 2022-23- 499,996.230 2023-24- 699,188.607	-
3q	General remarks of inspecting officer on method of mining etc.	During inspection, it was found that Ripper-Dozer combination is used to extract the mineral at bench then Shovel & Truck combination is used for loading and transportation of the limestone to the pit head.		

4.0 Solid Waste Management-Dumping

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No Proposal	Nil	-
4b	Location of topsoil, OB & mineral reject dumps	No Proposal	Nil	-
4c	Number of dumps within lease area and outside lease area	No Proposal	Nil	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Nil	-
4e	Number of active & alive dumps	No Proposal	Nil	-
4f	Number of dead dumps	No Proposal	Nil	-
4g	Number of dumps stabilised	No Proposal	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	Nil	-
4i	Length of Retaining wall or garland drain all along dump	No Proposal	Nil	-
4j	Number of settling ponds	No Proposal	Nil	-
4k	Specific comments of inspecting officer	There was no proposal of dumping of overburden and waste during the year 2023-24. There was no dump of OB/waste in the mine		

5.0 Solid Waste Management-Backfilling

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	-
5b	Area under backfilling of mined out area	No Proposal	Nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of	No Proposal	Nil	-

	mined out area (Rule 32)			
5d	Total area fully reclaimed & rehabilitated	No Proposal	Nil	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	There was no proposal of backfilling during the year 2023-24 and no backfilling was carried out.		

6.0 Progressive Mine Closure Plan

S N	Item	Proposals (2023-24)	Actual work (2023-24)	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,	Submitted on 20/06/2024 along with Annual Return 2023-24.	-
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	No proposal	Nil	
6c	Afforestation done (ha)	0.2 Ha.	0.2 Ha.	
6d	No. of saplings planted during the year	200 No.	250 No.	
6e	Cumulative no. of plants	-	1451 No.	
6f	Any other specific method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch & care during the year	₹ 20,000/-	₹ 20,000/-	
6h	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)	No proposal	Nil	
6i	ii) Void filled by waste/tailings	No proposal	Nil	
6j	iii) Afforestation on the backfilled area	No proposal	Nil	
6k	iv) Rehabilitation by making water reservoir	No proposal	Nil	
6l	v) Any other specific means	No proposal	Nil	
6m	Compliance of Rehabilitation of waste land within lease i) Afforestation	No proposal	Nil	
6n	ii) Area rehabilitated (ha)	No proposal	Nil	
6o	iii) Method of rehabilitation	No proposal	Nil	
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring to be done.	Monitoring on monthly basis done.	
6q	General remarks of inspecting officer on PMCP compliance & progressive	During inspection, it was found that plantation was carried out at 7.5m safety barrier.		

7.0 Mineral Conservation

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Total ROM dispatch as cement grade	ROM production: 699188.607 tonne	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No sorting proposal	Dispatch: 70,2192.607 tonne	-
7c	Different grade of mineral sorted out at mines	Cement Grade	Cement Grade	-
7d	Any beneficiation process at mines	No Proposal	Nil	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire ROM is dispatched as cement grade limestone.		

8.0 Environment

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	
8b	Concurrent use or storage of topsoil	Utilise for plantation	Utilised for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	200 plants to be planted per year	250 plants planted during 2023-24	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	200 plants to be planted per year	Total 1451 No. plantation was carried out	
8g	Survival rate	70%	80%	
8h	Water sprinkling on roads to control airborne dust	Dust suppression to be done.	Dust suppression done by using water tankers.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Lease area is surrounded by villages with moderate to little vegetation.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
9a.	Status of submission of Online Monthly and Annual returns	Monthly Return October 2024 submitted on 07.11.2024 Annual Return 2023-24 submitted on 20/06/2024	-
S. N.	Item	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri Jitendra Kumarr Sinha Geologist: Shri Mohammad Arzoo Manager: Shri Biswajit Kar	-
9c	Scrutiny of Annual return on land use pattern for area under	Area covered under (O-C) working: 29.63 Ha.	-

	pits, reclaimed area, dumps etc.	Reclaimed- Rehabilitated- 0.43 Ha. Infrastructure: 1.575 Ha.	
9d	Scrutiny of Annual return on afforestation	250 Plants under 1.80 Ha. area	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: 4400.677tonnes Cement Grade stock: 4400.677 tonnes	Violation observed under Rule 45(5)(C), Only one stock was found.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price: ₹ 203.68/- per tonne Cost of Production: ₹ 203.68/- per tonne	-
9i	Scrutiny of Annual return on fixed assets	Plant and Machinery including transport equipment : ₹112213/-	
9k	Scrutiny of Annual return on mining machineries	Shovel (Hydraulic): 1.1 m ³ Capacity (2 No.) Shovel (Hydraulic): 0.7 m ³ Capacity(1 No.) Dozer: 416 HP (1 No.) Water Tanker: 4000 Litre(1 No.) Jeep/Tractor: 63 HP (1 No.) Truck: 26 Tonne (20 No.) Truck: 30 Tonne (14 No.)	Violation observed under Rule 45(5)(c), Ripper is not reported in the Annual return 2023-24

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

नियम सं.	उल्लंघन के प्रकार का विस्तृत ब्यौरा													
34(A)	<p>Every lessee having-</p> <p>(a) an annual excavation plan of one million tonne or more in a particular year; or (b) leased area of fifty hectare or more, shall carry out a drone survey of the leased area and up to hundred meters outside the lease boundary in the month of April or May every year and submit the processed output [digital elevation model (DEM) and Orthomosaic] images obtained from such survey or any other format as may be specified by the Indian Bureau of Mines in this regard to the Controller General on or before 1st day of July every year.</p> <p>In your case, the Digital Aerial Images submitted under Rule 34(A), it is observed that the processed Drone survey output data submitted to Indian Bureau of Mines does not meet the parameters specified in the SOP for submission of Digital Aerial Images under the said Rule. The deviations in the data submitted is as follows:-</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Data type</th> <th>Check Point parameters as per SOP</th> <th>Submitted in proper format</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				S. No.	Data type	Check Point parameters as per SOP	Submitted in proper format	Remarks					
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			(Yes/No)	
	1.	Excavated Area, Roads, Infrastructures	.shp (UTM in WGS 84)	No Polygons not closed. Area couldn't be determined.
	2. There are 80 boundary pillars in the mines as per approved mining plan but only 46 boundary pillars are mentioned in .shp file. 3. No permanent GCP was found at site.			
45(5)(c) read with 45(7)	The following deficiencies have been found in the scrutiny of the annual return submitted by you for 2023-24 – (i) In point no. 2 and 3 of Part-VI, the stock was reported at both ROM stock and cement grade limestone stock, but during inspection, only one stock was found. (ii) In Point No. 6 of Part-V, ripper is not mentioned in the list of machineries whereas ripper is being used in the mines.			

Sunil Kumar Sharma
Senior Assistant Controller of Mines