

Your (**Environment Clearance**) application has been **Submitted** with following details

Proposal No	SIA/GJ/MIN/60349/2018
Compliance ID	27595593
Compliance Number(For Tracking)	EC/M/COMPLIANCE/27595593/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	27-05-2024
IRO Name	Shrawan Kumar Verma
IRO Email	kr099.ifs@nic.in
State	GUJARAT
IRO Office Address	Integrated Regional Offices, Gandhi Nagar
Note:- SMS and E-Mail has been sent to Shrawan Kumar Verma, GUJARAT with Notification to Project Proponent.	



SINCE 1944

By E-mail

Gop-2/MoEF/HYC/C/302/3831

Date- 27-05-2024

To,
Deputy Director General of Forests (C)
Integrated Regional Office, Gandhi Nagar
Ministry of Environment, Forest & Climate Change,
A- Wing - 407 & 409, Aranya Bhawan,
Near CH -3 Circle Sector-10 A,
Gandhinagar -382010 (Gujarat)

Subject: Submission of Compliance Report of the conditions as laid down in the Environmental Clearance letter no. SEIAA/GUJEC/1(a)/774/2021 dated 10.06.2021 in respect of **Gop - 2 Limestone Mines for the half year period October-2023 to March-2024.**

Respected Sir,

As required, we are submitting herewith Pointwise compliance status to various stipulations, as laid down in Environmental Clearance letter No. SEIAA/GUJEC/1(a)/774/2021 dated 10.06.2021 with supporting documents, is enclosed with the following Annexure:

Sr. No.	Annexure	Sr. No.	Annexure
1	Annexure-1 (Form-O)	8	Annexure-8 (Noise Monitoring)
2	Annexure-2 (Photographs of Plantation)	9	Annexure-8A (CER & CSR Activities)
3	Annexure-3 (Boundary Pillars)	10	Annexure-9 (CHR)
4	Annexure-4 (Air Ambient Monitoring)	11	Annexure-10 (Environment Expenses)
5	Annexure-5 (Approval Letter-MP)	12	Annexure-11 (Six Monthly Compliance Letter)
6	Annexure-6 (CGWA Renewal Application)	11	Annexure-12 (Form-4)
7	Annexure-7 (Vehicle Fitness Certificate)1	12	Annexure-13 (Form-V)

We hope that you will find the above submission in order.

Thanking you,

Yours faithfully,
For SHREE DIGVIJAY CEMENT CO. LTD.

Manager Mine

Enclosures - As Above

Copy To:

1.The Environmental Engineer, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10A,
Gandhinagar -382010.

**SHREE DIGVIJAY
CEMENT CO. LTD.**

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SHREE DIGVIJAY CEMENT COMPANY LIMITED

GOP-2 LIMESTONE MINE

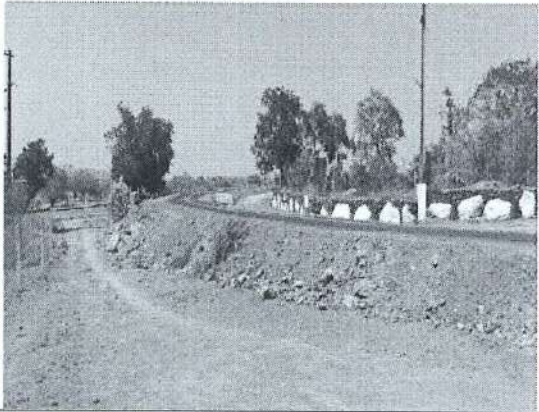
STATUS OF COMPLIANCE

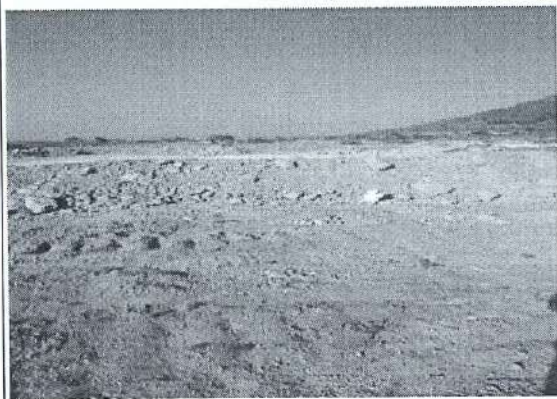
Period: October-2023 to March-2024

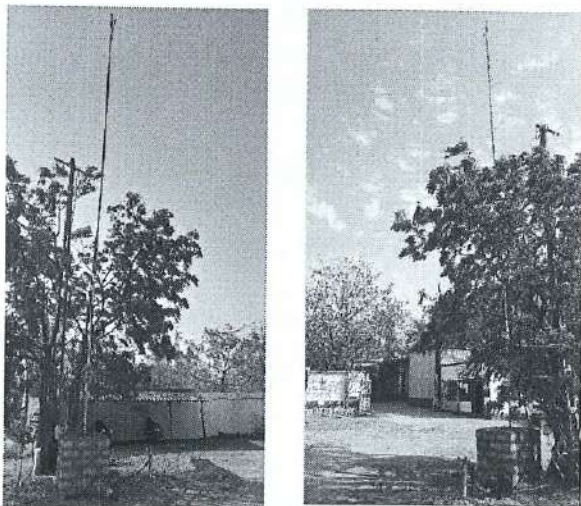
Point wise compliance status to various stipulations as laid down in the Environmental Clearance letter

No. SEIAA/GUJ/EC/1(a)/774/2021 dated 10.06.2021:

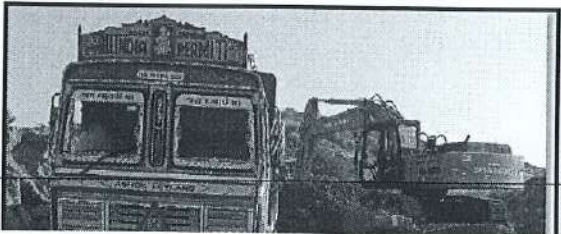
S. No.	CONDITIONS	COMPLIANCE STATUS
SPECIFIC CONDITIONS:		
1	Project proponent shall comply with all the guidelines and notifications issued by MOEFCC, New Delhi regarding cluster policy as part of compliance of orders of Hon'ble National Green Tribunal from time to time.	Not Applicable; No Cluster in the Area.
2	If lease area of project proponent falls in the cluster and total borrowed area of the cluster falls under category B1 or A, as per the prevailing guidelines of MoEF & CC, New Delhi, all the concerned procedures shall be followed up accordingly for compliance of Environmental Laws/ Notifications/Rules and under such circumstances project proponent shall extend all support including financial contribution or otherwise also for compliance of environmental Laws/Notifications/Rules for such cluster.	Not Applicable; The Area does not fall under Cluster.
3	If lease area of applicant falls in the cluster and total borrowed area of the cluster fall under category B1 or A, EIA study shall be carried out for the said cluster as decided by the competent authority and EMP for the cluster shall be prepared based on outcome of the EIA study. In such a case, all the suggestions/ recommendations of EIA/EMP prepared for the cluster shall be complied with in a letter and spirit by the project proponent(s) including lease holders who have already been accorded Environmental Clearance.	Not Applicable. The Area does not fall under Cluster.
4	The project proponent shall obtain registration of the establishment under the 'Building and other Construction Workers' (regulation of Employment & Conditions of Service) Act, 1996 and	Not applicable, as the mine is covered under the Mines Act 1952.

S. No.	CONDITIONS	COMPLIANCE STATUS
	shall comply with the provisions of the Act for the Safety, Health and Welfare of Mining Workers.	
5	The project proponent shall obtain registration of the Mining Workers as Beneficiaries with the Gujarat Building and other Construction Workers Welfare Boards.	Not applicable, as the mine is covered under the Mines Act 1952.
6	To conduct study for health check-up of the mine workers through accredited agency including the respiratory/lungs related ailments and prepare a report for the impact of mining on the health of workers.	Occupational health surveillance of the mine workers is being taken periodically. Initial (IME) & Periodical medical examination (PME) of all the mine workers is done as per statutory – Form – O under rule 29-B of Mines Rule 1955 is being carried out. Copy of form-O is enclosed as Annexure-1
7	PP shall carry out plantation in first year and maintain the same in subsequent years of lease period.	Plantation is being carried out in and around the mines site. 500 No. of plants have been planted during the year April-2023 to March-2024 and shall be maintained in subsequent years. Plantation photographs are enclosed as Annexure-2 .
8	No ground water extraction shall be done from within the lease/permit area.	Noted. No Dewatering being performed.
9	PP shall construct a pacca approach road connecting lease area to the main road with periodic regular maintenance to prevent fugitive dust emission.	Pacca road provided. Periodic regular maintenance to prevent fugitive dust emission is being done. 
10	Pillars mentioning boundary of the lease area shall be provided as per the provision of mining rules/Acts to identify the lease area.	Complied, DGPS survey is done, and Pillars are posted mentioning position and area of the lease. Pillars mentioning of the lease area enclosed as Annexure-3 .

S. No.	CONDITIONS	COMPLIANCE STATUS
11	A brick/stone parapet wall of 3.5 feet surrounding to the excavated mine pit shall be constructed to prevent casualty.	Complied. We have constructed stone parapet, bund (3.5 feet) around extracted-mine pit area. Picture of the same depicted below: 
12	Transportation route for vehicles carrying mineral shall have least minimum pass near human habitation.	The route of transport vehicle is selected as the shortest route for carrying limestone from the mines to the plant.
13	PP shall spend amount of CER after identifying activities in consultation with village gram panchayat.	"Activities are being carried out" in consultation with village gram panchayat.
14	PP shall implement all the measures proposed in EMP in letter and spirit.	Noted & being complied. Under EMP, Programs like greenbelt development, water sprinkling regular monitoring of environmental parameters etc. are being carried out regularly. 
15	Validity of the EC shall be conterminous with validity of lease or thirty years whichever is early.	Noted.
16	PP shall address all the concerns of the public residing in vicinity and propose need- based activities preferably covering environmental aspects which shall be part of EMP as per OM dated 30.09.2020.	Being complied. Programs like Swachhta Pakhwada, Awareness sessions, plantation drive etc. are being organised time to time in community.

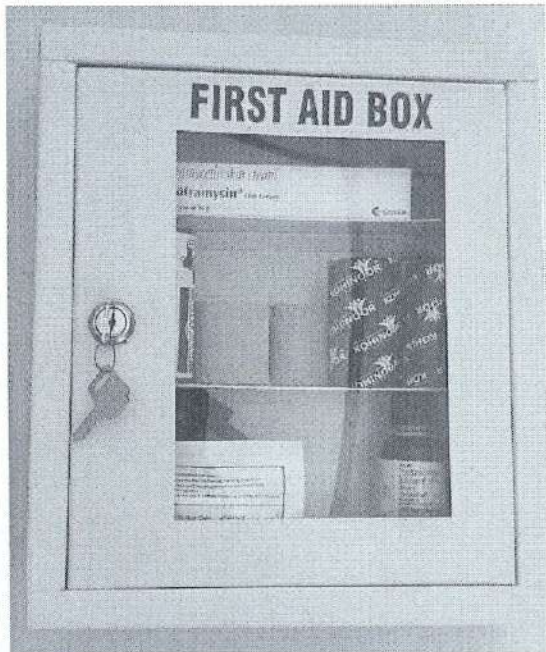
S. No.	CONDITIONS	COMPLIANCE STATUS
		
17	PP shall implement all safety measures including protection of lighting in mine as per the guidance manual of DGMS vide circular No. DGMS (Tech) Circular No: 10 of 2020 dated. 23 June 2020.	Complied. Lighting arrestor have been installed at mines 
18	Dust mitigation measures due to mining, handling of mineral, loading, unloading, transportation and other allied activities shall be implemented in letter and spirit similar to the applicable measures guided in Notification issued by MoEF &CC dated 25/01/2018 vide GSR 94(E).	Being complied. To control fugitive dust emission water spraying is being practiced on haul road and other mining areas.  Ambient air quality monitoring is being done regularly and results are well within the stipulated norms. Ambient Air Quality report is enclosed as Annexure-4 Trees of native species are being planted in and around the mines site.

S. No.	CONDITIONS	COMPLIANCE STATUS
		 Limestone is being transported with carrying right load and provided with cover of tarpaulin. 
19	Vide OM of MoEF & CC dated 16/01/2020, PP shall after ceasing mining operations, undertake re-grassing the mining area and any other area which have been disturbed due to their mining activities and restore the land to a condition which is fit for the growth of fodder, flora and fauna etc.	Noted. Shall be done.
20	All the measures mentioned in approved mining plan shall be complied with in a letter and spirit.	Being complied. Mining operations are being carried out as per approved mining plan.
21	No mining shall be undertaken outside the area specified in this Environmental Clearance.	Noted. Mining is being carried out as approved mining plan. A copy of Approval letter is enclosed as Annexure-5.
22	There shall be no Blasting for mining activity.	There is no drilling and Blasting.
23	Any change in lease area (Individual/cluster), survey number, entailing capacity addition with change in mining technology, modernization and scope of working shall again require prior Environmental Clearance as per the provisions of EIA Notification, 2006 as amended from time to time.	Noted.
CONDITIONS:		
A1	WATER:	

S. No.	CONDITIONS	COMPLIANCE STATUS
24	The project proponent shall obtain necessary prior permission of the competent authorities for withdrawal of requisite quantity of water (surface water and/or ground water) required for the project.	Complied. NOC for abstraction of 30 KLD ground water from CGWA has been obtained. The copy of the renewal Application enclosed as Annexure-6.
25	Mining operation shall not intersect ground table and hence there shall not be any water / wastewater discharge from mining operations.	Ground Water is not encountered during mining operations. Mining is being carried out as per Approved mining plan and no ground will intersect. The Limestone thickness in the area is 1-6 mtrs from GL, whereas the Water table lies about 14-20 mtrs BGL, so there is no possibility of working below Ground Water.
26	Garland Drains, settling tank and Catch drains of appropriate size, gradient and length shall be constructed around the excavated mine, mineral dumps, reject dumps to prevent silt and sediments flowing into any water body.	Construction of Garland Drains: For Waste Dump: Not applicable as there is no waste. For Mines: The mining is being done in slope and bottom of the hilly area following limestone deposits. Water flowing downwards from catchment is trapped into Mine Pits through water channels (Drains).
27	Domestic wastewater shall be disposed off through septic tank - soak pit.	Domestic wastewater is disposed off through septic tank - soak pit.
A2	AIR:	
28	Effective safeguards, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points.	Being complied. To control fugitive dust emission water spraying is being practiced on haul road and other mining areas like mines faces, loading points etc. 
29	Drills shall either be operated with dust extractors or equipped with water injection system (wet drilling) to suppress air borne dust during drilling.	No Drilling and Blasting is practised. Drilling & Blasting has been replaced by Eco-Friendly mining machineries using Ripper –Dozer and Excavator combination. 

S. No.	CONDITIONS	COMPLIANCE STATUS
30	Internal roads shall be either paved properly or sprinkled with water at regular intervals for controlling fugitive emission during vehicular movement. Trees of native species shall be developed along both sides of internal road/s in order to contain dust.	Being complied. Water sprinkling arrangement is being practiced. Trees of native species are being planted in and around the mines site. 
31	Vehicles shall not be overloaded, and mineral transportation shall be done only through covered trucks so that no spillage of mineral / dust take place.	Being complied. Limestone is being transported with carrying right load and provided with a cover of tarpaulin. 
32	Vehicles used in mining operations shall be maintained well so as to keep vehicular emissions in control.	Being complied. Vehicles are being maintained & checked regularly. Vehicle fitness certificate is enclosed as Annexure-7.
33	Fugitive emission in workplace and	Being complied.

S. No.	CONDITIONS	COMPLIANCE STATUS
	ambient air shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities.	Air Ambient Monitoring is being carried out regularly and results are well within the stipulated norms. The monitoring report for the period October-23 to March-24 is attached herewith as Annexure-4 .
34	Ambient air quality shall be monitored at site and the nearest human habitation, and it shall conform to the norms prescribed by the MoEF, Govt. of India.	AAQM is being carried out on regular basis and results are well within the stipulated norms.
A3	OVER BURDEN / REJECTS I HAZARDOUS WASTE:	
35	The project proponent shall strive to adopt zero waste mining concepts by reducing the quantum of reject through technological innovation or finding the use of fines through perspective buyers.	There is no waste / rejects generated. Total ROM is used for Cement Manufacturing.
36	Topsoil from the mining area shall be scrapped, stacked separately, preserved, and utilized for the plantation work.	Whatever topsoil available, is scrapped and being utilized for the plantation work.
37	Overburden, waste rock and non-saleable mineral generated during prospecting or mining operations shall be stored separately in properly formed dumps on grounds earmarked. Slope and height of such dumps shall be restricted adequately to prevent any slippage of material. Such dumps should be properly terraced, stabilized and secured at toe to prevent the escape of material that may cause degradation of the surrounding land or silting of water courses.	No Overburden, No Dumps.
38	Overburden or other rejects shall be backfilled into the worked-out quarry so far as possible with a view to restore the land to its original use or desired alternate use.	There is no overburden hence backfilling is not possible. As per Approved Mining Plan and Progressive Mine Closure Plan, water reservoir is proposed.
39	Used oil / waste oil, if any, generated shall be sold only to the registered recyclers. In case of generation of hazardous waste, the project proponent shall strictly comply with the provisions of Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008, as may be amended from time to time.	Used Oil is being sent to our Cement Plant at Digvijaygram for internal uses.
A4	SAFETY:	

S. No.	CONDITIONS	COMPLIANCE STATUS
40	Anti-vibration devices shall be provided to vibrating tools / equipment to be used by workers during mining. Vibrations shall be maintained within safe limit.	Being complied.
41	All the precautions are to be observed as per Reg. 106 of MMR, 1961 for safety and security. Face masks, helmets, safety shoes etc. shall be provided to all the workers working in the mining areas and its usage shall be ensured and supervised.	Being complied. All the workers are provided mandatory PPEs. No person is allowed to enter mines without wearing PPEs.
42	First Aid Box should be made readily available at the site.	The First Aid Box readily available at the mines site. 
43	Occupational health surveillance of workers shall be undertaken periodically by a doctor who is expert in occupational health and hygiene and its records shall be maintained.	Being complied. Occupational health surveillance program of the workers is being taken regularly and Periodic Medical Examination (PME) of all the workmen is done at statutory intervals. Copy of form-O is enclosed as Annexure-1
44	Information regarding occupational mine diseases caused due to air pollution and its preventive measures shall be displayed at site in vernacular language for workers.	Noted and being complied. 
A5	NOISE:	

S. No.	CONDITIONS	COMPLIANCE STATUS														
45	Noise level in and around the lease area shall be kept well within the standards by providing noise control measures including engineering control like acoustic insulation, hoods, silencers, enclosures etc. on all sources of noise generation. Ambient noise level shall conform to the standards prescribed under the Environment (Protection) Act & Rules, 1986.	Being complied. Noise Monitoring is being carried out regularly and results are well within the stipulated norms. Earmuffs are provided to workmen as per requirement. The Noise monitoring report is attached as Annexure-8														
A6	GREEN BELT DEVELOPMENT:															
46	Green belt shall be developed in periphery of the lease area as per the CPCB guidelines and strictly as per the time schedule. The green belt should comprise of rows of varying height native trees with thick foliage.	Noted and being complied. Trees of native species are being planted in and around the mines site. <table><tr><th>Year</th><th>Nos of Saplings planted</th></tr><tr><td>2018-19</td><td>200</td></tr><tr><td>2019-20</td><td>2629</td></tr><tr><td>2020-21</td><td>3845</td></tr><tr><td>2021-22</td><td>1968</td></tr><tr><td>2022-23</td><td>9282</td></tr><tr><td>2023-24</td><td>500</td></tr></table>	Year	Nos of Saplings planted	2018-19	200	2019-20	2629	2020-21	3845	2021-22	1968	2022-23	9282	2023-24	500
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47	Drip irrigation system shall be used for the green belt development within the premises.	Being complied: Drip irrigation is being practiced in mines area for watering in plantation. Picture depicted below; 														

S. No.	CONDITIONS	COMPLIANCE STATUS
B	OTHER CONDITIONS:	
48	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.	Noted. The CER & CSR Activities are enclosed s Annexure-8A .
49	This Environmental Clearance does not confer any right to the project proponent on the land proposed for lease and all necessary statutory clearances / permissions shall be obtained from respective department before start of mining operations.	Noted. This is an operative mine since 1966 and all statutory permission has been obtained.
50	Mining operation shall be restricted to above ground water table, and it shall be ensured that it does not intersect ground water table.	Ground Water is not encountered during mining operations. Mining is being carried out as per Approved mining plan and no ground will intersect. The Limestone thickness in the area is 1-6 mtrs from GL, whereas the Water table lies about 14-20 mtrs BGL, so there is no possibility of working below Ground Water. The CHR is enclosed as Annexure-9 .
51	The project proponent shall ensure that no natural water course gets obstructed due to mining operations.	Noted and being complied. Mining is carried out as per approved mining plan. No natural water course is being obstructed due to mining operations.
52	The pits left unfilled in lease area shall be converted to water body. Higher benches of excavated void/mining pit shall be terraced, and its slope shall be made gentler for easy accessibility to the water body.	Noted. The water reservoirs are proposed in the Review of mining Plan. Shall be done accordingly.
53	No mining shall be carried out in the safety zone of any bridge / embankment and in the vicinity of natural /manmade archeological sites.	Noted. Being Complied. Mining is being carried out as per approved mining plan.
54	No wildlife habitat shall be infringed and in addition to that before issuing the mining lease, it has to be ensured that no wildlife movement shall be existing in the lease area proposed for mining.	Noted. Being Complied.

S. No.	CONDITIONS	COMPLIANCE STATUS												
55	A booklet containing the Dos and Don'ts shall be prepared in vernacular languages for the use of site in-charge and workers to ensure that all necessary environmental, safety and health measures are undertaken.	Noted and being complied. 												
56	Funds earmarked for environmental protection measures shall be kept in a separate account and shall not be diverted for other purpose. Records of year wise expenditure shall be maintained.	Noted and being complied. <table border="1"> <thead> <tr> <th>SL. No</th><th>Year</th><th>Recurring Yearly Expenditure</th></tr> </thead> <tbody> <tr> <td>1</td><td>2021-2022</td><td>₹ 202871</td></tr> <tr> <td>2.</td><td>2022-2023</td><td>₹ 881320</td></tr> <tr> <td>3.</td><td>2023-2024</td><td>₹ 406348</td></tr> </tbody> </table> Details on Expenditure for environmental protection measures for the FY 2023-24 (October-23 to March-24) is enclosed as Annexure-10.	SL. No	Year	Recurring Yearly Expenditure	1	2021-2022	₹ 202871	2.	2022-2023	₹ 881320	3.	2023-2024	₹ 406348
SL. No	Year	Recurring Yearly Expenditure												
1	2021-2022	₹ 202871												
2.	2022-2023	₹ 881320												
3.	2023-2024	₹ 406348												
57	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.	Noted. We are communicating our agreement for the compliance of the condition.												
58	Half yearly compliance reports on the conditions stipulated herein above shall be submitted to the SEIAA, State Pollution Control Board and the Regional Office of the Ministry of Environment and Forests, Bhopal, on 1st June and 1st December of each calendar year by individual project proponent.	Being complied. Half yearly report is being submitted by email to SEIAA in stipulated period to State Pollution Control Board and the Regional Office of the Ministry of Environment Forest & Climate Change/all concerned offices. Previous half yearly compliance reports submitted vide letter no and Gop2/SEIAAHYCIC/302/3377 dated 24.05.2023 Copy of Submission letter enclosed as Annexure-11												
59	The project proponent shall have to comply with the provisions of Gujarat Minor Mineral Concession Rules (GMMCR) as and when amended by the State Govt. with respect to the provisions for approval of mining plan, EMP for cluster, creation of separate corpus, etc. in view of the recommendations made by the MoEF in its report of March 2010 and the model guidelines framed by the Ministry of Mines.	Not Applicable.												

S. No.	CONDITIONS	COMPLIANCE STATUS
60	Decisions/Directions of Hon'ble Court and Hon'ble National Green Tribunal given in the matter of minor minerals shall be binding on the project proponent.	Not Applicable
61	The Individual project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	We have published Environment Clearance information in the two local newspapers dated 17.07.2021 The publication has appeared in the - (1) Times of India - Ahmedabad Edition (2) Divya Bhaskar - Rajkot edition PUBLIC NOTICE It is to inform all concerned that the State Level Environment Impact Assessment Authority Gujarat, Government of Gujarat has accorded Environmental Clearance to Gop-2 Limestone Mines of Shree Digvijay Cement Company Limited at S. No. 50/P, Village: Gop, Taluka: Jamjodhpur, District: Jamnagar, State: Gujarat vide letter No. SEIAA/GUJ/EC/1(a)/774/2021 dated 10.06.2021. Copy of said Clearance letter is available with Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10-A, Gandhinagar 382043 Gujarat and may also be seen at the Website of SEIAA/ SEAC/ GPCB. Shree Digvijay Cement Company Limited P.O. Digvijaygram-3601140, Dist.: Jamnagar, Gujarat, INDIA :: જાહેર સુચના :: આથી સૂચિત કરવામાં આવે છે કે ગુજરાત સરકારશ્રી ના રાજ્ય સ્તર પર્યાવરણીય ઇમ્પેક્ટ એસેસમેન્ટ ઓથોરિટી ગુજરાતના પત્ર સંખ્યા SEIAA/GUJ/EC/1(a)/774/2021 તા. 10.06.2021 થી, શ્રી દિગ્વિજય સિમેન્ટ કંપની લિમિટેડ ને ગોપ-2 લાઇમસ્ટોન ખાણ, સર્વે નં. 50/ પેકી, વિસ્તાર 58.68 હેક્ટર, ગામ:ગોપ, તાલુકો: જામજોધપુર, જિલ્લો: જામનગર, રાજ્ય: ગુજરાત માટે એન્વાયરમેન્ટ કલીયરન્સ આપવામાં આવેલ છે જેની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ, પર્યાવરણ ભવન, સેક્ટર 10-એ, ગાંધીનગર 382043 તેમજ SEIAA/SEAC/GPCB ની વેબસાઇટ પર પણ જોઈ શકાય છે. શ્રી દિગ્વિજય સિમેન્ટ કંપની લીમિટેડ P.O.- દિગ્વિજયગ્રામ - 3601140 જિલ્લો-જામનગર, ગુજરાત, ભારત
62	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Noted.
63	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted.
64	The project proponent in a time bound manner shall implement these conditions The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act,	Noted.

S. No.	CONDITIONS	COMPLIANCE STATUS
	1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act 1986 and Hazardous Wastes (Management Handling and Transboundary) Rules, 2008 along with their amendments and rules.	
65	The environmental clearance is being issued without prejudice to the action, if any, initiated under the E.P. Act or any court case, if any pending in the court of law and it does not mean that the project proponent has not violated any environmental laws in the past. This clearance does not give immunity to the project proponent for the case, if any, filed against him in any court of law or action initiated under the E.P. Act.	Noted.
66	Precise mining area shall be jointly demarcated at the site by officials of Mining / Revenue Department prior to mining operations. Records of such site plan duly verified by competent authority shall be maintained.	Being Complied.
67	The project proponent shall carry out activities under CSR in consultation with the District Development Officer / District Collector.	Noted and being complied. 
68	Geology and Mining Department will take all measures to comply with all the conditions stipulated in this Environmental Clearance and all the conditions stipulated in this clearance shall be incorporated while granting lease to individual lease holder.	Noted. It is an operative mine.
69	This clearance is issued with respect to only environmental considerations, and it does not imply that SEIAA approved the way by which lease is granted to the project. While granting lease, the concerned authority shall ensure compliance of relevant Rules, Regulations, Notifications, Government Resolutions, Circulars, Judgments / Orders of Hon'ble Courts and NGT, etc.	Noted.
70	Any appeal against this environmental clearance shall lie with the National	Noted.

S. No.	CONDITIONS	COMPLIANCE STATUS
	Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010	
71	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.	Noted

Thanking you

Your faithfully,

For SHREE DIGVIJAY CEMENT COMPANY LTD.

N. 

Manager Mines

Enclosures-As above

[FORM - O]
[See rule 29F (2) and 29L]
Report of medical examination under rule 29B
(To be issued in triplicate)

Annexure-1

Certificate No. 151

Certificate that Shri/Shrimati* Samee Khan, bhu employed
as _____ in _____ mine, Form B

No _____ has been examined for an initial/periodical medical examination. He/she* appears
to be 32 m years of age. The findings of the examining authority are given in the attached
sheet. It is considered that Shri/Shrimati Samee Khan, bhu

(a) *in medically fit for any employment in mines.

(b) *is suffering from _____ and is medically unfit for

- i. Any employment in mine; or
- ii. Any employment below ground; or
- iii. Any employment or work _____

(c) *is suffering from _____ should get this disability cured/controlled and should
be again examined within a period of _____ months. He/she will appear for re-
examination with the result of test of _____ and the opinion
of _____ Specialist from _____ He/she may be permitted/not
*permitted to carry on his duties during this period.



Dr. Rajesh Thakkar
MBBS, DPM, DCP, DNB, CCIM, CCMTD
Specialty _____
Dlab _____
Consultant _____

Signature of the examining authority

Name and Designation in Block letters

Place: Gum Khambhadiya

Date: 11-10-23

*Delete whatever is not applicable.

** One copy of the certificate shall be handed over to the person concerned and another copy shall
be sent to the manager of the mine concerned by registered post; and the third copy shall be
retained by the examining authority.

SHREE DIGVIJAY CEMENT COMPANY LIMITED
Plantation Photographs of Gop Composite Limestone Mine







Photographs of Boundary Pillars-Gop-2 Limestone Mines:



Boundary Pillar No - B.P-1



Boundary Pillar No - B.P-2



Boundary Pillar No - B.P-5



Boundary Pillar No - B.P-6



Boundary Pillar No – B.P-7



Boundary Pillar No – B.P-9



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Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. :782/10/2023-24

Date: 26/10/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : October 2023 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	04/10/2023	04/10/2023	04/10/2023	04/10/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	3 to 16	3 to 16	3 to 16	3 to 16
05.	Average flow rate during sampling	m ³ /minutes	1.13	1.18	1.15	1.15
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	28.6	27.3	29.3	28.4
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	52.7	54.2	51.6	52.8
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	15.4	12.7	14.8	14.3
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	17.5	16.3	15.9	16.6

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No. :793/10/2023-24

Date: 26/10/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : October 2023 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	04/10/2023	04/10/2023	04/10/2023	04/10/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km /Hrs.	3 to 16	3 to 16	3 to 16	3 to 16
05.	Average flow rate during sampling	m3/minutes	1.19	1.20	1.17	1.19
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	31.4	29.4	30.4	30.4
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	49.5	50.6	53.4	51.2
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.5	12.7	15.2	13.8
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	16.2	15.8	14.2	15.4

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No. :8052/10/2023-24

Date: 28/10/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : October 2023 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	25/10/2023	25/10/2023	25/10/2023	25/10/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	3 to 13	3 to 13	3 to 13	3 to 13
05.	Average flow rate during sampling	m3/minutes	1.19	1.21	1.13	1.18
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	28.7	30.1	29.7	29.5
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	51.2	48.6	53.2	51.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.2	14.5	16.4	14.7
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	16.2	17.8	18.5	17.5

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No. :8053/10/2023-24

Date: 28/10/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : October 2023 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	25/10/2023	25/10/2023	25/10/2023	25/10/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	-----	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	3 to 13	3 to 13	3 to 13	3 to 13
05.	Average flow rate during sampling	m ³ /minutes	1.23	1.12	1.18	1.18
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	30.1	29.5	28.5	29.4
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	48.6	50.2	53.4	50.7
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	15.2	14.2	16.5	15.3
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	15.4	17.1	16.3	16.3

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 28/12/2022

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Ref. No.: 92/11/2023-24

Date: 15/11/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : November 2023 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	06/11/2023	06/11/2023	06/11/2023	06/11/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	SE	SE	SE	SE
04.	Average Wind Speed	Km./Hrs.	3 to 16	3 to 16	3 to 16	3 to 16
05.	Average flow rate during sampling	m ³ /minutes	1.13	1.16	1.18	1.16
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	21.5	22.6	25.8	23.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	53.4	55.6	49.8	52.9
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.3	12.6	12.6	13.2
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	21.3	23.3	24.5	23.0

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No.: 93/11/2023-24

Date: 15/11/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : November 2023 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	06/11/2023	06/11/2023	06/11/2023	06/11/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	SE	SE	SE	SE
04.	Average Wind Speed	Km./Hrs.	3 to 16	3 to 16	3 to 16	3 to 16
05.	Average flow rate during sampling	m ³ /minutes	1.20	0.16	1.18	0.85
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	25.6	24.8	28.3	26.2
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	48.6	46.8	50.2	48.5
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.0	12.5	14.1	13.2
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	21.5	22.4	21.0	21.6

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No.: 102/11/2023-24

Date: 30/11/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : November 2023 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	24/11/2023	24/11/2023	24/11/2023	24/11/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	SE	SE	SE	SE
04.	Average Wind Speed	Km./Hrs.	4 to 16	4 to 16	4 to 16	4 to 16
05.	Average flow rate during sampling	m3/minutes	1.24	1.25	1.19	1.23
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	29.8	30.2	31.5	30.5
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	48.9	50.1	49.8	49.6
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.3	12.3	11.2	12.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.4	25.6	23.7	24.2

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No.: 103/11/2023-24

Date: 30/11/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : November 2023 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	24/11/2023	24/11/2023	24/11/2023	24/11/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	SE	SE	SE	SE
04.	Average Wind Speed	Km./Hrs.	4 to 16	4 to 16	4 to 16	4 to 16
05.	Average flow rate during sampling	m ³ /minutes	1.13	1.16	1.19	1.16
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	32.1	29.8	27.9	29.9
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	53.5	54.8	50.2	52.8
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.3	15.2	14.5	14.7
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.4	23.4	21.6	22.8

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ph.: +91 9099919954 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No : 102/12/2023-24

Date: 30/12/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : December 2023 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	13/12/2023	13/12/2023	13/12/2023	13/12/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	4 to 17	4 to 17	4 to 17	4 to 17
05.	Average flow rate during sampling	m3/minutes	1.11	1.15	1.13	1.13
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	23.1	24.5	25.4	24.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	51.5	53.2	54.2	53.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.2	12.6	13.9	13.2
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.6	24.1	22.7	23.1

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

Royal Environment Auditing & Consultancy Service



Chandhi
Analyst



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Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref No.: 103/12/2023-24

Date: 30/12/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : December 2023 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	13/12/2023	13/12/2023	13/12/2023	13/12/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	-----	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	4 to 17	4 to 17	4 to 17	4 to 17
05.	Average flow rate during sampling	m3/minutes	1.17	1.15	1.18	1.17
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	23.7	24.6	27.2	25.2
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	53.4	51.6	52.7	52.6
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.4	13.5	12.9	12.9
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.4	21.5	21.9	22.3

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No.: 109/12/2023-24

Date: 30/12/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone

GOP MINES : December 2023 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	26/12/2023	26/12/2023	26/12/2023	26/12/2023
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	4 to 16	4 to 16	4 to 16	4 to 16
05.	Average flow rate during sampling	m3/minutes	1.21	1.11	1.23	1.18
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	27.8	29.3	24.6	27.2
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	46.9	45.3	48.7	47.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.3	13.4	12.5	12.7
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	21.5	22.6	23.4	22.5

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No.: 110/12/2023-24

Date: 30/12/2023

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : December 2023 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	26/12/2023	01.	Date of sampling	---
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	4 to 16	4 to 16	4 to 16	4 to 16
05.	Average flow rate during sampling	m3/minutes	1.15	1.14	1.19	1.16
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	29.3	27.8	26.8	28.0
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	49.1	47.3	50.2	48.9
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.2	13.5	12.6	13.4
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.1	22.9	24.3	23.1

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No.: 202/01/2023-24

Date: 31/01/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : January 2024 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	03/01/2024	03/01/2024	03/01/2024	03/01/2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	SW	SW	SW	SW
04.	Average Wind Speed	Km./Hrs.	3 to 16	3 to 16	3 to 16	3 to 16
05.	Average flow rate during sampling	m ³ /minutes	1.19	1.11	1.13	1.14
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	23.8	22.7	23.1	23.2
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	53.4	52.8	53.9	53.4
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.2	12.5	13.7	13.1
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.5	24.7	23.2	23.8

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No : 203/01/2023-24

Date: 31/01/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : January 2024 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	03/01/2024	03/01/2024	03/01/2024	03/01/2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	SW	SW	SW	SW
04.	Average Wind Speed	Km./Hrs.	3 to 16	3 to 16	3 to 16	3 to 16
05.	Average flow rate during sampling	m ³ /minutes	1.12	1.16	1.21	1.16
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	24.5	23.7	22.8	23.7
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	51.9	52.4	50.3	51.5
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.3	13.9	13.1	13.8
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.9	24.5	23.7	24.0

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref No : 209/01/2023-24

Date: 31/01/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : January 2024 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	23-01-2024	23-01-2024	23-01-2024	23-01-2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	4 to 17	4 to 17	4 to 17	4 to 17
05.	Average flow rate during sampling	m ³ /minutes	1.11	1.19	1.22	1.17
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	26.7	28.3	29.8	28.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	49.8	50.3	47.3	49.1
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.3	13.2	14.2	13.2
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.3	21.4	23.5	22.4

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

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Ref. No.: 110/12/2023-24

Date: 31/01/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : January 2024 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	23-01-2024	23-01-2024	23-01-2024	23-01-2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04.	Average Wind Speed	Km /Hrs.	4 to 17	4 to 17	4 to 17	4 to 17
05.	Average flow rate during sampling	m ³ /minutes	1.17	1.15	1.18	1.17
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	28.7	29.3	30.8	29.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	50.2	51.5	48.3	50.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.5	12.4	13.9	13.3
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.2	24.3	21.5	23.0

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 28/12/2022

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Ref. No.: 302/02/2023-24

Date: 29/02/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : FEBRUARY 2024 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	05/02/2024	05/02/2024	05/02/2024	05/02/2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	3 to 17	3 to 17	3 to 17	3 to 17
05.	Average flow rate during sampling	m3/minutes	1.12	1.15	1.22	1.16
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	24.5	23.1	22.6	23.4
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	55.1	53.8	54.7	54.5
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.5	13.2	13.1	13.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.8	23.5	21.3	22.5

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 13/01/2024

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Ref. No.: 303/02/2023-24

Date: 29/02/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : FEBRUARY 2024 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	05/02/2024	05/02/2024	05/02/2024	05/02/2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	NE	NE	NE	NE
04.	Average Wind Speed	Km /Hrs.	3 to 17	3 to 17	3 to 17	3 to 17
05.	Average flow rate during sampling	m3/minutes	1.11	1.13	1.19	1.14
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	23.5	21.8	22.3	22.5
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	52.9	53.2	54.8	53.6
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.2	12.5	14.2	13.3
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.4	22.5	23.8	23.2

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 13/01/2024

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Ref. No.: 309/02/2023-24

Date: 29/02/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : February 2024 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	----	17/02/2024	17/02/2024	17/02/2024	17/02/2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	SE	SE	SE	SE
04.	Average Wind Speed	Km./Hrs.	3 to 16	3 to 16	3 to 16	3 to 16
05.	Average flow rate during sampling	m3/minutes	1.13	1.15	1.21	1.16
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	29.7	28.3	27.5	28.5
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	51.2	48.7	50.3	50.1
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.1	12.8	11.9	12.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	21.5	23.4	22.8	22.6

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 13/01/2024

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Ref. No.: 310/02/2023-24

Date: 29/02/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : February 2024 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	----	17/02/2024	17/02/2024	17/02/2024	17/02/2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	SE	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	4 to 17	4 to 17	4 to 17	4 to 17
05.	Average flow rate during sampling	m ³ /minutes	1.11	1.13	1.19	1.14
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	26.8	27.9	27.5	27.4
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	48.9	50.3	50.1	49.8
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.1	13.2	12.3	13.2
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	24.1	24.1	22.8	23.7

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 13/01/2024

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Ref. No.: 403/03/2023-24

Date: 15/03/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : March 2024 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	09/03/2024	09/03/2024	09/03/2024	09/03/2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	2 to 16	2 to 16	2 to 16	2 to 16
05.	Average flow rate during sampling	m3/minutes	1.13	1.19	1.11	1.14
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	22.8	21.9	24.8	23.2
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	52.3	53.1	54.7	53.4
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.7	14.2	13.9	13.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	21.5	22.4	23.5	22.5

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 13/01/2024

Royal Environment Auditing & Consultancy Service



Analyst



Royal

Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.
Ph.: +91 9099919954 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No.: 404/03/2023-24

Date: 15/03/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : March 2024 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	----	09/03/2024	09/03/2024	09/03/2024	09/03/2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	2 to 16	2 to 16	2 to 16	2 to 16
05.	Average flow rate during sampling	m3/minutes	1.10	1.21	1.19	1.17
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	21.3	22.4	24.3	22.7
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	51.3	52.7	53.9	52.6
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.1	12.8	13.2	13.4
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.7	24.6	23.9	23.7

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 13/01/2024

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Ph.: +91 9099919954 ■ E-mail : royalservice@live.com ■ admin@royalconsultancy.com

Ref. No.: 412/03/2023-24

Date: 30/03/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : March 2024 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	21/03/2024	21/03/2024	21/03/2024	21/03/2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	2 to 18	2 to 18	2 to 18	2 to 18
05.	Average flow rate during sampling	m3/minutes	1.15	1.18	1.17	1.17
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	30.2	28.7	29.5	29.5
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	49.1	47.9	48.3	48.4
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.3	13.5	14.8	13.5
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.5	21.7	23.9	22.7

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 13/01/2024

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Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No.: 413/03/2023-24

Date: 30/03/2024

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone GOP MINES : March 2024 (2nd time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	----	21/03/2024	21/03/2024	21/03/2024	21/03/2024
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	2 to 18	2 to 18	2 to 18	2 to 18
05.	Average flow rate during sampling	m3/minutes	1.12	1.15	1.19	1.15
06.	Average flow rate for Gas sampling	LPM	0.5	0.5	0.5	0.5
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	25.7	26.8	27.4	26.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	50.2	51.3	51.9	51.1
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.7	14.9	12.8	13.8
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	21.7	23.8	22.1	22.5

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 13/01/2024

Royal Environment Auditing & Consultancy Service



Analyst

भारत सरकार
खान मंत्रालय
भारतीय खान ब्यूरो
क्षेत्रीय खान नियंत्रक का कार्यालय
कर्मयोगी भवन, चतुर्थ माला, ब्लॉक-2, सी विंग, सेक्टर-10A
गांधीनगर, गुजरात, 382010



Government of India
Ministry of Mines
Indian Bureau of Mines
Office of Regional Controller of Mines
Karmayogi Bhavan, 4th Floor, Block-2, C Wing, Sector 10A,
Gandhinagar, Gujarat-382010

Tel- 079 29750358 /29750359; ई-मेल/ E-mail: ro.gandhinagar@ibm.gov.in

फाईल संख्या File No: 684(4)(1)/MP-373/2021-22 GNR

दिनांक 12 Jan 2022

सेवा में To, नोमिनेटेड ओनर
मै. श्री दिग्विजय सीमेंट कंपनी लिमिटेड
दिग्विजयग्राम, गाँव: सिक्का,
जिला- जामनगर
गुजरात - 361140

Nominated Owner
M/s Shree Digvijay Cement Company Limited
Digvijaygram, Village: Sikka,
Dist.- Jamnagar,
Gujarat- 361140
E-mail : sdcclmines@gmail.com

विषय Sub: Approval of Review and updation of Mining Plan along-with Progressive Mine Closure Plan (PMCP) in respect of Gop-II Limestone Mine of M/s Shree Digvijay Cement Co. Ltd. over an area of 58.68 hectare near Village- Moti Gop, Tehsil- Jamjodhpur, District – Jamnagar, submitted under Rule 17(2) of Minerals (Other than Atomic & Hydro Carbons Energy Minerals) Concession Rules, 2016 & 23 of MCDR 2017.

- संदर्भ /Ref:
1. Your e-mail dated 12th Nov 2021 received in the office.
 2. Our office letter of even number dated 16th Dec 2021
 3. Your letter no. Nil dated- 30 Dec 2021 received in this office on dated 31st Dec 2021.

महोदय/Sir,

With reference to above and in exercise of the power conferred by Clause (b) of Sub-Section (2) of section 5 of Mines & Minerals (Development & Regulation) Act, 1957 read with Government of India order no. S.O. 445 (E) dated 28.04.1987 and Government of India Order No- S.O. 1857 (E) dated 18.05.2016; I hereby approve the aforesaid Review & updation of Mining Plan Including Progressive Mine Closure Plan (herein after refer as **Mining Plan**). This approval is subject to the following conditions:

1. The Mining Plan is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
2. The proposals shown on the plates and/or given in the mining plan is based on the lease map /sketch submitted by the lessee and is applicable from the date of approval. Proposed scale of production is subjected to environmental clearance by competent authority.
3. It is clarified that the approval of Mining Plan does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Act, 1957, or the Minerals (Other than Atomic & Hydro Carbon Energy Minerals) Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, The Occupational Safety, Health and Working Conditions Code, 2020/The Mines Act 1952 and Rule & Regulations made there under.
4. Indian Bureau of Mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the precise area as furnished by the lessee.
5. The Next Financial Assurance shall be due for submission on 31 March 2027.
6. This approval is restricted in respect of the prospective proposals contained therein within the valid mining lease area of this Review and updation of Mining Plan for the period commencing from the date of submission of appropriate and requisite amount of Bank Guarantee (as per chapter-7 of mining plan) against Financial Assurance as per amended MCDR, 2017 in prescribed format and co-terminus with plan period as per rules OR 1st April 2022 for the financial year 2022-23 whichever is LATER, up to financial year 2026-27 with validity up to 31 March 2027 and subject to all statutory compliance and clearance for the mining activity to be carried out with in the mining leasehold.
7. Drone survey shall be carried out and submit the processed output as per rule 34A of MCDR, 2017 (as amended on 03-11-2021).
8. Mining lease is in much close vicinity of
 - a. Public roads are passing through lease area therefore utmost care shall be taken from public safety point of view.
 - b. Proposed area is also in close proximity to the place of religious importance and its connecting roads, thus utmost care shall be taken for connecting roads, pathways etc.
9. Adequate measures shall be taken to prevent any inadvertent access to the mined out area/water logged pits, if any, with appropriate fencing etc.
10. Adequate number of parapet walls, check dams, and/or retaining walls shall be made and maintained in good condition to check any detrimental impact on water regime.
11. Wherever side/benches have finalized or reached to its ultimate limit, immediate steps shall be taken for stabilization/ restoration of such sides/benches/terraces appropriately like plantations of suitable species etc.

12. In addition to the PMCP proposals mining lease holder shall comply the Order of Hon'ble Supreme Court dated 08.01.2020 in the matter of Writ petition(C) No.114/2014(common Cause vs Union of India & Ors.) to undertake re-grassing of the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. **Compliance status of the same shall be furnished every year along with the compliance of PMCP proposals under rule 26(2) of MCDR 2017.** For the compliances including PMCP proposals. The conceptual plan needs to be examined thoroughly on planning and commencement of mining operations in next review & updation of mining plan.
 13. This approval is restricted to the proposals only for the ensuing mining plan period and this approval shall not be interpreted as a compliance of any of the violations made to the statutory provisions.
 14. The mineral wise/ore stocks above the limit prescribed in the threshold values of minerals and below the cut-off grade if any shall be maintained separately and its inventory shall be maintained in a bound page register indicating the quantity and quality of material stacked. The month wise inventory of such materials shall be updated regularly.
 15. Mining operations shall be carried out strictly as per provisions of MCDR 2017 and other rules made under MM(D&R) Act 1957 and updated time to time.
 16. At any stage, if it is found/observed that any of the information, data, details, drawings, geo-referenced spatial configuration of the mining lease, proposals etc. furnished/incorporated in the mining plan are incorrect or misrepresent the facts or non-compliance of the conditions of the approval letter, if any, the approval of this mining plan shall be revoked with immediate effect.
- Encl: One copy of approved Mining Plan.

भवदीय

(पुष्पेन्द्र गौड़/ Pushpender Gaur)

क्षेत्रीय खान नियंत्रक /Regional Controller of Mines

प्रतिलिपि सूचनार्थ प्रेषित / Copy for kind information to:-

1. The Commissioner, Department of Geology & Mining, Govt. of Gujarat, Gandhinagar, Gujarat, e-mail- commissioner-cgm@gujarat.gov.in.
2. The Geologist, Department of Geology & Mining, Collector Office Compound, Block-A, Bahumali Makan, Lal Bungalow Compound, Jamnagar, Gujarat e-mail- geologist-jam@gujarat.gov.in. Along-with copy of approved Review and updation of Mining Plan along with PMCP. Kindly refer our letter no 684(4)(1)/MP-373/2021-22 GNR dated 12.01.2022 in this matter.
3. Shri K. K. Rajeev Nambiar, The Nominated Owner, M/s Shree Digvijay Cement Company Limited, Digvijaygram, Village: Sikka, Dist.- Jamnagar, Gujarat- 361140 e-mail: anil.nigam@digvijaycement.com.
4. Sh. Deepak Gaur, Mining Engineer E-mail : dgaur@mining360services.com

क्षेत्रीय खान नियंत्रक /Regional Controller of Mines

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)
Application for Issue of NOC to Abstract Ground Water (NOCAP)

**Application for Renewal of NOC to Dewater Ground Water for Mining Industry
(Application for Renewal of NOC)**

Application Number : 21-4/2075/GJ/MIN/2017

Applied For Renewal : 1st

1.	General Information:	
	Water Quality:	Fresh Water
	Purpose of Renewal Application:	Existing Ground Water
	Application Type Category/ Type of Application	Limestone
2.	Name of Mine/Project:	GOP COMPOSITE LIMESTONE MINE
3.	Location Details of the Mining Unit- (Attach Site, Approved Mining Plan, Toposketch of Surrounding 10km Radius Outside) (\$) :	
	Address Line 1 :	VILLAGE MOTI GOP
	Address Line 2 :	TALUKA JAMJODHPUR
	Address Line 3 :	
	State:	GUJARAT
	District:	JAMNAGAR
	Sub-District:	JAMJODHPUR
	Village/Town:	Moti Gop
	Latitude:	
	Logitude:	
	Area Type :	Non-Notified
	Area Type Category :	Safe
	Whether industry is MSME:	No
4.	Communication Address	
	Address Line 1:	MANISH KUMAR UPADHYAY
	Address Line 2:	SHREE DIGVIJAY CEMENT COMPANY LTD
	Address Line 3:	DIGVIJAYGRAM
	State:	GUJARAT
	District:	JAMNAGAR
	Sub-District:	JAMNAGAR
	Pincode:	361140
	Phone Number with Area Code:	
	Mobile Number:	91 7861880790
	Fax Number:	
5.	Details of Existing NOC issued by CGWA (enclose copy)	
	E-Mail:	sdccmines@gmail.com
	NOC Letter No:	CGWA/NOC/MIN/ORIG/2021/11841
	Date of Issuance:	06/05/2021
	Vailidity (Start):	06/05/2021
	Validity (End):	05/05/2023

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
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	Reason for not applying for renewal before expiry of NOC Validity (Attach Affidavit):				
6.	Change in Land Use Pattern after execution of Project and Surroundings (10 km Radius - Outside)				
	Lease Area is Government waste land. The area consist of mostly barren land isolated agriculture land. Part of the area is forest land.				
7.	Land Use Detail of Project Area				
	Land Use Details	Existing (sq meter)	Proposed (sq meter)	Grand Total (sq meter)	
	Green Belt Area	187700.00	0.00	187700.00	
	Open Land	2524689.00	0.00	2524689.00	
	Road/ Paved Area	41585.00	0.00	41585.00	
	Rooftop area of building/ sheds	18126.00	0.00	18126.00	
	Total	2772100.00	0.00	2772100.00	
8.	Whether there is a change in Topography of the Area after the execution of the Project:		Yes		
	a) Regional	It is Upland with numbers of isolated Rocky Pediments and Pediments			
	b) Project Area	Rocky Pediment with isolated mine pits			
9.	Whether there is change in Drainage pattern of the area after the execution of the Project:		Yes		
	a) Regional	Small Gullies from Gop Hills			
	b) Project Area	Small Gullies from Gop Hills			
10.	Present Townships / Villages within 10 km radius of the Project:-		Moti Gop, Zinavari, Kathitad, Sanosary		
11.	Whether the Groundwater Table will be Intersected by Activity :-				No
	(a) At What Depth (m bgl)	Pre-monsoon		Post-monsoon	
	Minimum (m bgl)				
	Maximum (m bgl)				
	(b) Maximum Depth Proposed to Dewater (m bgl)				
	(c) Groundwater Flow Direction (Attach Map)(\$)				
	(d) Any Other Information				
12.	Total Water Requirment for various Purpose to be Mentioned	Existing (m3/day)	Additional (m3/day)	Existing (m3/year)	Additional (m3/year)
	Ground Water Required through Abstract Structure	30.00		10600.00	
	Ground Water Abstracted on account of Dewatering / Mining Seepage				
	Total Ground Water Withdrawal	30.00	0	10600.00	0
13.	Details of De-Watering Structure				
	(a) De-Watering Existing Structure				

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
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Applied For Renewal : 1st

Number of Existing Structures:							0				
	SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours(Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA /If so Details Thereof	
(b) De-Watering Requirement and Additional Structure Detail											
Number of Proposed Structures:							0				
	SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours(Day) / Days(Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof	
14. Details of Utilization of Pumped Water (Please Attach Details)(m3/year) (\$)											
(a)	Water Supply			Yes	7060.00		Domestic Water				
(b)	Agriculture			No							
(c)	Green Belt Development			Yes	3177.00		Green Belt Development				
(d)	Suppression of Dust			Yes	3530.00		For Dust Suppression				
(e)	Recharge			Yes	637680.00		From Mining Pit in Rainy Season				
(f)	Any Other Item										
15. Monitoring of Ground Water Regime (Attach Map(\$))											
(a)	Location Details of the Wells / Piezometers (Latitude, Longitude, Reduced Level)					Open Well 001 Latitude 22.044305; Longitude 69.918919 001 Latitude 22.044664; Longitude 69.921318					
(b)	Number of Wells / Piezometers					Two					
(c)	Attach Details of GW Level of Observation Wells / Piezometers(At Least for One Year)(\$)					Ground water Monitoring and water level record enclosed Annexure-IV					
(d)	General Quality of GW in the Area & Surroundings (\$)					Ground Water Quality enclosed Annexure-V					
(e)	Any Other Item					Water Balance Chart enclosed as Annexure-VI					
16. Give the details of change in groundwater regime and quality after execution of the project (Attach detailed report with Map showing GW flow direction(\$))											
Drainage map in 10km radius in closed as Annexure-XVIII											

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
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17.	Proposed Pump / Pumping Groundwater Outside the Mine Pit for Domestic or Other Use (If so, give Details):										
	Number of Existing Structures:						3				
		SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours (Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof
		1	Dugwell / 2015	21.00 / 3950	12.60	5.00	6 / 300	Submersible Pump	2.00	Yes	Yes / -
		2	Dugwell / 2015	23.90 / 4200	22.20	5.00	6 / 300	Submersible Pump	2.00	Yes	Yes / -
		3	Borewell / 2021	90.00 / 150	30.00	2.00	1 / 300	Submersible Pump	2.00	Yes	Yes / -
	Number of Additional Structures:						1				
		SNo.	Type of Structure Name / Year of Construction	Depth (Meter) / Diameter (mm)	Depth to Water Level (Meters below Ground Level)	Discharge (m3/Hour)	Operational Hours (Day) / Days (Year)	Mode of Lift Name	Horse Power of Pump	Whether fitted with Water Meter	Whether Permission Registered with CGWA/If so Details Thereof
		1	Borewell / 2023	90.00 / 200	30.00	10.00	5 / 300	Submersible Pump	3.00	Yes	Yes / -
18.	(a). Compliance to the Condition prescribed in the NOC										
	SNo.	Conditions given in NOC				Compliance Conditions Applicable			Status of Compliance		
	1	Area Specific Plantation				Yes			Area Specific Plantation is enclosed as Annexure-XIV		
	2	Domestic Water School Sanitation				Yes			Domestic Water School Sanitation Photographs is enclosed as Annexure-XVI		
	3	Groundwater quality monitoring - Pre monsoon and Post monsoon				Yes			Groundwater quality monitoring - Pre monsoon and Post monsoon is enclosed as Annexure-V		
	4	Maintenance of recharge structures				Yes			Recharge Pond photographs is enclosed as Annexure-VII		

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
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Applied For Renewal : 1st

5	Number of Pizometers as per NOC and Water Level Record	Yes	Piezometer as per NOC and Water Level Record photographs is enclosed as Annexure-IV
6	Number of Tubewells Borewales as per NOC	Yes	Number of Borewell as per NOC photographs is enclosed as Annexure-II
7	Pizometer fitted with AWLRs with telemetry as per NOC	Yes	Not Applicable, Piezometer as per NOC and Water Level Record photographs is enclosed as Annexure-IV
8	Quantum of Groundwater as per NOC	Yes	Water Balance Chart is enclosed as Annexure-VI
9	Recharge through ponds	Yes	Recharge through ponds is enclosed as Annexure-VII
10	Recycle and reuse of water	Yes	will be done
11	RWH and AR structures implemented	Yes	Recharge Pond photographs is enclosed as Annexure-VII
12	Submission of Compliance report to the Region	Yes	The CGWA NOC Condition Compliance already submitted copy is enclosed as Annexure-XX
13	Water conservation measures	Yes	Recharge Pond photographs is enclosed as Annexure-VII
14	Water Security Plan of villages	Yes	Will be done
15	Well monitored around the plant premises	Yes	Well monitored around the mining area photograph is enclosed as Annexure-IV
16	Wells fitted with water meter and its Record	Yes	Wells fitted with water meter and its Record is enclosed as Annexure Annexure XII

(b). Compliance to the Condition prescribed in the NOC - Other

SNo.	Conditions given in NOC	Status of Compliance
No Record Found!		
19. Gainful utilaization of pump water:-		

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)
Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry
(Application for Renewal of NOC)

Application Number : 21-4/2075/GJ/MIN/2017

Applied For Renewal : 1st

20.	Details of Rainwater Harvesting and Artificial Recharge Measures for Groundwater Recharge in the Area:-			
MINING USE- Self Declaration				
☒ I hereby certify that the data and information furnished above are true to the best of my knowledge and belief and I am aware that if any part of the data / information submitted is found to be false or misleading at any stage, the application will be rejected outright.				
I hereby declare that all the mandatory documents prescribed in the application form have been uploaded and no blank /irrelevant documents have been uploaded. I am also aware that any false/ wrong submission /uploading of document will lead to rejection of my application without any notice.				
It is to certify that no case related to ground water withdrawal/ contamination is pending against the industry/ project/ unit as on date. Any such case filed against the company/ project/ unit in respect of ground water withdrawal/ contamination during the pendency of this application shall be immediately brought to the notice of CGWA.				
I hereby undertake that in case any environmental compensation/ penalty is imposed on the firm by any statutory authority, I shall comply with the decision of such authority.				
1. Application Proforma is subject to modification from time to time.				
2. Application is submitted online on website http://cgwa-noc.gov.in to following office.				
Regional Director,Central Ground Water Board West Central Region, Swami Narayan College, Building, Shah Alam Tolnaka, AHMADABAD, GUJARAT,380022				
3. Incomplete application will be summarily rejected.				
Scanned copy of last page of application with signature and seal should be attached at presribed place before submission of application.				
4. Reciept of Processing Fee of Rs. 5000.00/- (Rupees Five Thousand Only) submitted through NON TAX RECEIPT PORTAL (https://bharatkosh.gov.in) should be attached along with hard copy of application.				
Processing Fee:-				
Bharat Kosh Transaction Ref. No:-	2604230003270			
Bharat Kosh Transaction Date:-	26/04/2023			
Note:- The Processing Fee is Non-Refundable. Applicant should ensure and Check Eligibility of Submission of Application and Required Documents before Submitting Online Application.				
5.	Hard copy of application required:		No	
6.	Ground Water Quality Approved	Not Define	Ground Water Charge Required:	Not Define
	Ground Water Charge Recieve:	No	Ground Water Charge Amount:	
			Ground Water Aear Amount:	

Attached Files:

1). GroundWater flow Direction Map: (Refer:11-C)

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)
Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry
(Application for Renewal of NOC)

Application Number : 21-4/2075/GJ/MIN/2017

Applied For Renewal : 1st

S.No	Attachment Name	File Name
1	Groundwater Flow Direction Map	Annexure-XVIII (Drainage Map).pdf

2). GW Level of Observation Wells / Piezometer : (Refer:15-C)

S.No	Attachment Name	File Name
1	GW Level of Observation Wells/Piezometer	Annexure-IV (Piezometer Well with WLR).pdf

3). General Quality of Ground Water in the Area : (Refer:17-D)

S.No	Attachment Name	File Name
1	General Quality of GW in Area	Annexure-V (WQR).pdf

4). Changes in Topography : (Refer: 8)

S.No	Attachment Name	File Name
1	Topography	Annexure-XIX (Toppographical Map).pdf

5). Changes in Drainage Pattern : (Refer: 9)

S.No	Attachment Name	File Name
1	Drainage Map	Annexure-XVIII (Drainage Map).pdf

6). Reason for Not Applying for Renewal before Expiring NOC : (Refer: 5)

No Attachment Found!

7). Existing NOC : (Refer: 5)

S.No	Attachment Name	File Name
1	Existing NOC	Annexure-I (NOC).pdf

8). Compliance to the Condition prescribed in the NOC : (Refer: 17-a)

S.No.	Conditions given in NOC	Attachments		
		S.No.	Attachment Name	File Name
1	Area Specific Plantation	No Attachment Found!		
2	Domestic Water School Sanitation	No Attachment Found!		
3	Groundwater quality monitoring - Pre monsoon and Post monsoon	No Attachment Found!		
4	Maintenance of recharge structures	No Attachment Found!		
5	Number of Pizometers as per NOC and Water Level Record	No Attachment Found!		
6	Number of Tubewells Borewales as per NOC	No Attachment Found!		
7	Pizometer fitted with AWLRs with telemetry as per NOC	No Attachment Found!		

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)
Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry
(Application for Renewal of NOC)

Application Number : 21-4/2075/GJ/MIN/2017

Applied For Renewal : 1st

8	Quantum of Groundwater as per NOC	No Attachment Found!
9	Recharge through ponds	No Attachment Found!
10	Recycle and reuse of water	No Attachment Found!
11	RWH and AR structures implemented	No Attachment Found!
12	Submission of Compliance report to the Region	No Attachment Found!
13	Water conservation measures	No Attachment Found!
14	Water Security Plan of villages	No Attachment Found!
15	Well monitored around the plant premises	No Attachment Found!
16	Wells fitted with water meter and its Record	No Attachment Found!

9). Compliance to the Condition prescribed in the NOC - Other : (Refer: 17-b)

SNo.	Conditions given in NOC	Attachments		
		S.No.	Attachment Name	File Name

10). Extra Attachment :

S.No	Attachment Name	File Name
1	Affidavit Non availability of water	Affidavit - (Non-Availability Water Gop).pdf
2	Affidavit of wet land	Affidavit - (Wetland Gop).pdf
3	CHR-Gop	Annexure-XI (CHR).pdf
4	Approval Letter of MP	Annexure- XXI (Mining Plan Approval Letter).pdf
5	NOC Condition Compliance Report	CGWA Compliance-Gop Final.pdf

11). Bharat Kosh Reciept (Porcessing Fee):

No Attachment Found!

12). Application with Signature and Seal:

S.No	Attachment Name	File Name
1	Aplication with Signature and Seal Attachment	Declaration Letter-Gop.pdf

13). MSME certificate in case of MSME:

No Attachment Found!

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)
Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry
(Application for Renewal of NOC)

Application Number : 21-4/2075/GJ/MIN/2017

Applied For Renewal : 1st

Date :

Name & Signature of the applicant

Place :

(With official seal)

Associated User : anilnigam

Submitted By User : anilnigam

Submission Date : 28/04/2023

* In case signed by any authorized signatory, the details of the signatory with the authorization shall be enclosed.

GUJARAT MOTOR VEHICLE DEPARTMENT

State Transport Department
JAMNAGAR
FORM 38

Annexure-7



[See Rule 62(1)] CERTIFICATE OF FITNESS

(Applicable in the case of transport vehicles only)

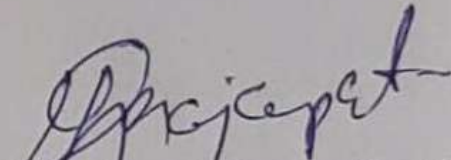
Vehicle No: **GJ03AX7086** (Goods Carrier) is certified as complying with the provisions of the Motor vehicles Act, 1988 and the rules made there under.

Registration No : GJ03AX7086
Application No : GJ230925V3504562
Inspection Fee Receipt No : GJ230925C6443261
Receipt Date : 25-Sep-2023
Chassis No : MAT46638802B04508
Engine No : B591803121B63236573
Seating Capacity : 2 (Including Driver)
Type of Body : TRKOPN TRUCK (OPEN BODY)
Manufacturing Year : 2012
Category of Vehicle : HGV
Inspected on : 30-Sep-2023

Certificate will expire on : 29-Sep-2024
Next Inspection Due : **01-Aug-2024**
Date

Printed on : 04-Oct-2023 15:16:49

Inspected by (DHIREN R
PRAJAPATI)


Signature of Inspecting Authority
JAMNAGAR



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Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.
Ph.: +91 9099919954 ■ E-mail : royalsenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 797/10/2023-24

Date: 26/10/2023

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 4th & 5th October 2023

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	61.5	44.5
02.	Chorbedi Mines Adm. Building	59.8	45.6
03.	Pachhtar and Pachhtardi Mines Adm. Building	51.3	43.5

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : SL-4030 (LUTRON)

Calibration done on : 04/03/2023


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Ref. No. : 798/10/2023-24

Date: 26/10/2023

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited
Digvijaygram - 361 140.
District : Jamnagar.

Sampling Date : 4th & 5th October 2023

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer - BEML/BH 35 - G11266	76.8	67.8	60.5
02.	HYUNDAI - SMART PLUS 210 - HYNDN633CE0006118	78.3	66.5	58.7
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Dozer BD 355 - P12027	80.1	68.7	60.3
04.	Excavator Komatsu 205 - N800092	76.9	69.5	61.3
05.	Excavator Tata 200 - 2001-15309	78.3	67.3	610.9
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Dozer BEML/BH35-2 - GJ-0000	80.1	68.7	59.3
07.	Excavator - HYUNDAI - R 140 LC-9 - NIL0001	78.3	67.2	58.6

Instruments used : Sound level meter, model : SL-4030. (LUTRON)

Calibration done on : 04/03/2023

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Ref. No. : 97/11/2023-24

Date: 15/11/2023

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 6th & 7th November 2023

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
Time of sampling		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	63.5	43.8
02.	Chorbedi Mines Adm. Building	62.7	42.6
03.	Pachhtar and Pachhtardi Mines Adm. Building	55.3	41.5

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : SL-4030. (LUTRON)

Calibration done on : 04/03/2023



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Ref. No. : 98/11/2023-24

Date: 15/11/2023

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited
Digvijaygram - 361 140.
District : Jamnagar.

Sampling Date : 6th & 7th November 2023

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBa		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer - BEML/BH 35 - G12027	73.2	62.9	65.3
02.	HYUNDAI - SMART PLUS 210 - HYNDN633CE0006118	72.9	64.3	64.8
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Komatsu Dozer B 355 - D355A3054	78.6	64.5	58.4
04.	Excavator Komatsu 205 - N800092	75.3	67.8	57.9
05.	Excavator Tata Hitachi Ex 200 LCI - 2001-15309	74.9	63.5	63.5
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Dozer BEML/BH35-2 - GJ11268	65.8	63.4	57.2
07.	Excavator - HYUNDAI - R 140 LC-9 - NIL0001	67.8	63.4	54.3

Instruments used : Sound level meter, model : SL-4030 (LUTRON)

Calibration done on : 04/03/2023

Royal Environment Auditing & Consultancy Service




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Ref. No. : 107/12/2023-24

Date: 30/12/2023

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 13th & 14th December 2023

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	65.2	45.3
02.	Chorbedi Mines Adm. Building	63.2	41.2
03.	Pachhtar and Pachhtardi Mines Adm. Building	59.3	40.3

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : SL-4030. (LUTRON)

Calibration done on : 04/03/2023

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Ref. No. : 108/12/2023-24

Date: 30/12/2023

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited
Digvijaygram - 361 140
District : Jamnagar.

Sampling Date : 13th & 14th December 2023

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer - BEML/BH 35 - G12027	70.1	65.9	52.6
02.	HYUNDAI - SMART PLUS 210 - HYNDN633CE0006118	70.9	66.7	55.3
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Komatsu Dozer B 355 - D355A3054	73.6	66.2	55.7
04.	Excavator Komatsu 205 - N800092	74.2	62.3	53.8
05.	Excavator Tata Hitachi Ex 200 LCI - 2001-15309	73.2	63.9	54.9
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Dozer BEML/BH35-2 - GJ11268	72.6	66.2	55.3
07.	Excavator - HYUNDAI - R 140 LC-9 - NIL0001	73.4	63.2	56.2

Instruments used : Sound level meter, model : SL-4030 (LUTRON)

Calibration done on : 04/03/2023

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Ref. No. : 207/01/2023-24

Date: 31/01/2024

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 03rd & 04th January 2024

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	64.5	46.7
02.	Chorbedi Mines Adm. Building	62.8	47.5
03.	Pachhtar and Pachhtardi Mines Adm. Building	63.8	43.2

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : SL-4030. (LUTRON)

Calibration done on : 04/03/2023

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Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 208/01/2023-24

Date: 31/01/2024

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar

Sampling Date : 03rd & 04th January 2024

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBa		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer - BEML/BH 35 - G12027	71.2	64.9	52.7
02.	HYUNDAI - SMART PLUS 210 - HYNDN633CE0006118	72.3	63.8	54.8
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Komatsu Dozer B 355 - D355A3054	74.3	65.8	54.9
04.	Excavator Komatsu 205 - N800092	75.7	62.7	55.8
05.	Excavator Tata Hitachi Ex 200 LCI - 2001-15309	73.9	63.8	53.5
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Dozer BEML/BH35-2 - GJ11268	73.2	64.8	59.7
07.	Excavator - HYUNDAI - R 140 LC-9 - NIL0001	72.3	64.7	57.3

Instruments used : Sound level meter, model : SL-4030 (LUTRON)

Calibration done on : 04/03/2023

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Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.
Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 307/02/2023-24

Date: 29/02/2024

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 05th & 06th February 2024

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	61.5	43.9
02.	Chorbedi Mines Adm. Building	60.8	46.3
03.	Pachhtar and Pachhtardi Mines Adm. Building	59.6	45.7

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : SL-4030 (LUTRON)

Calibration done on : 04/03/2023

Royal Environment Auditing & Consultancy Service

Analyst



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Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.
Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 308/02/2023-24

Date: 29/02/2024

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 05th & 06th February 2024

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer - BEML/BH 35 - G12027	69.8	63.5	53.8
02.	HYUNDAI - SMART PLUS 210 - HYNDN633CE0006118	71.6	62.3	52.9
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Komatsu Dozer B 355 - D355A3054	74.2	62.1	53.1
04.	Excavator Komatsu 205 - N800092	73.2	63.3	54.2
05.	Excavator Tata Hitachi Ex 200 LCI - 2001-15309	72.9	62.3	51.8
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Dozer BEML/BH35-2 - GJ11268	72.5	63.5	56.8
07.	Excavator - HYUNDAI - R 140 LC-9 - NIL0001	71.9	62.8	55.9

Instruments used : Sound level meter, model : SL-4030. (LUTRON)

Calibration done on : 04/03/2023

Royal Environment Auditing & Consultancy Service



Analyst



Royal

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Ph.: +91 9099919954 ■ E-mail : royalservice@live.com ■ admin@royalconsultancy.com

Ref. No. : 408/03/2023-24

Date: 15/03/2024

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 09th & 10th March 2024

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	57.8	43.8
02.	Chorbedi Mines Adm. Building	55.9	44.1
03.	Pachhtar and Pachhtardi Mines Adm. Building	58.3	42.3

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : SL-4030. (LUTRON)

Calibration done on : 04/03/2023



Royal Environment Auditing & Consultancy Service

Analyst



Royal

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Ref. No. : 409/03/2023-24

Date: 15/03/2024

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited
Digvijaygram - 361 140.
District : Jamnagar.

Sampling Date : 09th & 10th March 2024

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer - BEML/BH 35 - G12027	70.1	63.5	55.4
02.	HYUNDAI - SMART PLUS 210 - HYNDN633CE0006118	68.9	59.3	55.7
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Komatsu Dozer B 355 - D355A3054	73.5	60.3	51.5
04.	Excavator Komatsu 205 - N800092	74.5	61.5	52.3
05.	Excavator Tata Hitachi Ex 200 LCI - 2001-15309	71.6	63.2	53.2
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Dozer BEML/BH35-2 - GJ11268	71.3	62.9	54.3
07.	Excavator - HYUNDAI - R 140 LC-9 - NIL0001	70.3	60.8	52.9

Instruments used : Sound level meter, model : SL-4030. (LUTRON)

Calibration done on : 04/03/2023

Royal Environment Auditing & Consultancy Service



Analyst

CER or CSR activities carried out in the Gop-2 Limestone Mines







**COMPREHENSIVE REPORT ON GROUND WATER
CONDITIONS AT GOP VILLAGE, JAMJODHPUR TALUKA,
JAMNAGAR DISTRICT, GUJARAT**

(As per CGWA guidelines dated 24.09.2020)

**FOR
SHREE DIGVIJAY CEMENT COMPANY LTD**

**GOP LIMESTONE MINE
GOP & ZINAVARI VILLAGE
TALUKA: JAMJODHPUR
DISTRICT: JAMNAGAR
STATE:GUJARAT**



Report Prepared by

Dr. Nallathambi Varadaraj,

M.Tech , P.G .Dip (Hons), Ph. D

**CGWA Accredited Individual (Sl. No. 7) for Impact Assessment Report,
Modelling Studies & Hydrogeological Report for Mining Projects**

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1. INTRODUCTION

Shree Digvijay Cement Co Ltd., established in 1942 at Sikka – Jamnagar and one of the pioneers in the Cement business, is a flagship Company of Votorantim. The fully computer controlled plant has a production capacity of 1.30 million tonnes per annum. The limestone required for cement plant is obtained from three mines located in Jamnagar and Devbhumi Dwarka Districts. The GOP composite limestone mine is one of the mines in operation with 0.25 MTPA capacity.

At the instance of company management, Krisha Geo ventures Pvt Ltd, Chennai has taken up detailed ground water surveys and rain water harvesting studies in the mines and adjoining villages in 10 km radius. The detailed ground water studies for designing rainwater harvesting structures in accordance with CGWB guidelines in its website is carried out during the period of 9th April 2017 to 11th April 2017. Dr N.Varadaraj, Ground water Expert (Formerly Member, CGWB, and Govt. of India) and team from Krisha Geo Ventures Pvt. Ltd, Chennai, collected the primary and secondary data on, Geology, Hydrogeology and land use pattern and prepared technical report on ground water conditions of the study area.

2. PROJECT DESCRIPTION

Mining of Limestone and manufacturing of Clinker / Cement, has been the main life of activity of the company, which it has been carrying out with distinction for last over seven decades period. Mining of Limestone is being carried out by use of Dozer – Ripper & Excavator combination. No Drilling - blasting being performed since 2015.

3. BACKGROUND

Shree Digvijay Cement Company Limited, incorporated in the year 1944, started its production in the year 1949 by the then prevailing “Wet process” Technology, using calcareous sea sand as the main raw material. The various types of cement produced by this company under the brand name “KAMAL”.

4. OBJECTIVES AND SCOPE

The Scope of work includes the following.

- To analyze physiographic conditions of the study area with the help of field observations, GPS readings, Survey of India (SOI) toposheets and Satellite images.
- To observe hydrogeological conditions and study of aquifer system of the area i.e. in Core and 10 km Buffer Zone.
- To work out quantitative as well as qualitative variations in groundwater with respect to aerial extent and to find out water balance.
- To observe surface water features and their impact on groundwater balance.
- To ascertain the impact of mining project on groundwater conditions of the surrounding area.
- To work out scope of Rainwater harvesting within the mining project and proposal for suitable recharge/storage system.
- To suggest ways and means of creating rainwater harvesting to negate adverse impact on groundwater regime of the area.
- To prepare detailed Hydro-geological report.

5.0 REGIONAL SETTING

5.1 LOCATION

Gop limestone mine is located in S.No.286 in GOP village and S.No 91 in Zinavari located near Gop Jam railway which is about 50 km away from Jamnagar town and lies between N. Latitude $22^{\circ}02'25''$ and $22^{\circ}03'15''$ and E longitude $69^{\circ}54'18''$ to $69^{\circ}55'19''$. The location map of Gop Jam area is given in Fig-1 and Google map of mines and surrounding area is shown in Fig-2

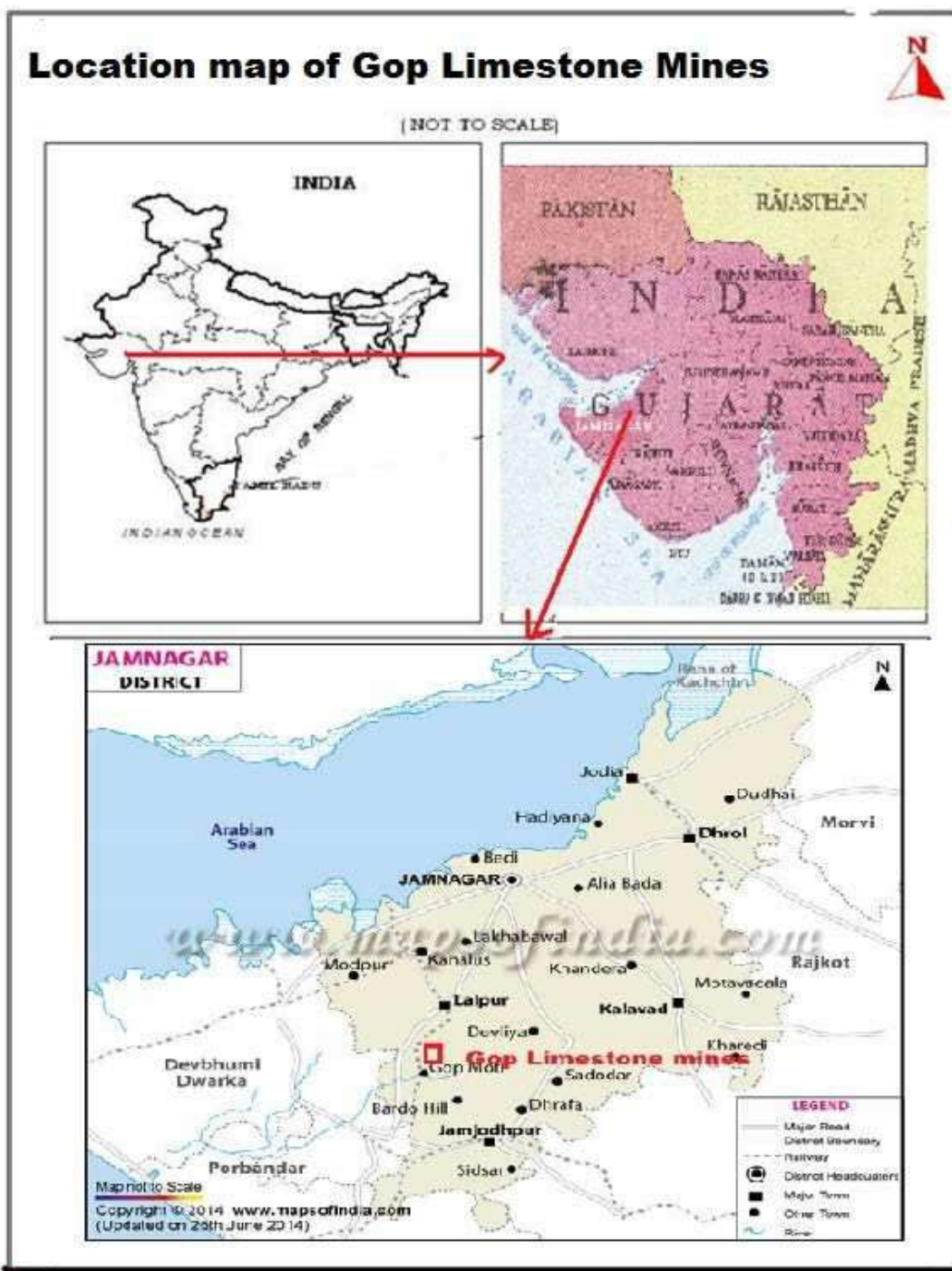


Fig-1 Location map of GOP Limestone mines

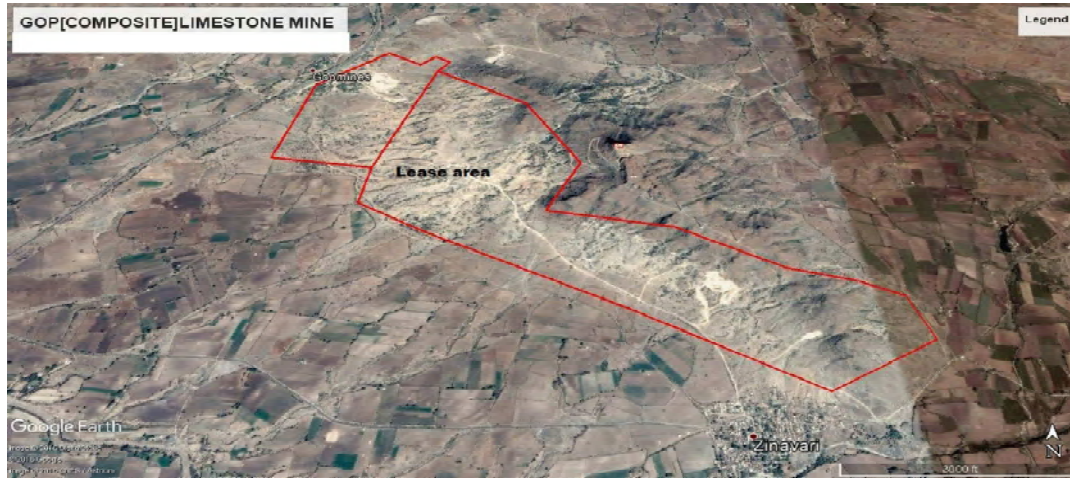


Fig: 2 GOOGLE map of GOP Mines area

In order to get the regional hydrogeological information, traverses are made in a 10 km radius zone in and around the Mine site. The GPS points studied are shown in the Google map and the details of the study points are given in Table-1

GPS NO	latitude	longitude	Altitude (m)	Description
001	22.045724000	69.921183000	187.6	ROAD inside the Mines
002	22.045296000	69.918975000	166.9	Check Dam
003	22.044305000	69.918919000	164.5	Existing WELL
004	22.043900000	69.919047000	163.9	NEW Bore well location
005	22.043769000	69.918324000	158.9	Old BW DRY-RWH
006	22.043602000	69.918721000	158.4	Alternate NEW BW point
007	22.044664000	69.921318000	184.8	Existing WELL-2
008	22.043374000	69.920745000	174.6	Check Dam -2
009	22.033331000	69.930151000	156.5	MINE PIT
010	22.032830000	69.939271000	147.8	Private WELL-3
011	22.033243000	69.938559000	148.7	Private BW
012	22.041268000	69.911608000	144.8	WELL4
013	22.052066000	69.908899000	138.6	Bore Well
014	22.052820000	69.909885000	140.2	DRY Bore- Proposed RWH
015	22.052311000	69.910288000	139.3	NEW BW proposed
016	22.052182000	69.903766000	126.0	Private WELL Good yield
017	22.054693000	69.907506000	124.8	Irrigation WELL
018	22.058647000	69.957945000	175.6	Irrigation WELL
019	22.057561000	69.969837000	198.0	Irrigation WELL
020	22.064735000	69.989832000	216.1	Irrigation WELL

Table-1 GPS readings for survey points –GOP Mines area

5.2 LANDUSE

Total study area/ buffer zone of Gop (Composite) Limestone Mines of Shree Digvijay Cement Company Limited mainly comprises of Crop Land (7290.97 Hectare covering 23.03 % area) followed by barren land (21882.3 Hectare covering 69.12 % area). Details of land use pattern is given below:.

Table : Land use pattern in buffer zone (10 km Radius)

S. No.	LU/LC Class	Area (hectare)	Area (%)
1	River/Canal	1952.21	6.17
2	Agriculture	7290.97	23.03
3	Barren Land	21882.3	69.12
4	Settlement	257.365	0.81
5	Mine Quarry	277.21	0.88
	Total	31660.1	100.00

5.3 CLIMATE AND RAINFALL

Jamnagar district enjoys a semi arid climate. The weather is pleasant during the period from November to January. January is the coldest month with minimum daily temperature at 10.7°C and the mean daily maximum temperature at 26.3°C. May is the hottest month with maximum temperature of 36.4°C. The relative humidity during the southwest monsoon is very high (70.5 to 80.5%). The relative humidity during winter and summer months is 52 to 58%.

The average annual rainfall for the period is 573.4 mm only and the normal monthly rainfall distribution is given in table-2

Table-2 Monthly Temperature & rainfall distribution in Jamnagar

Month	Max Temp (Deg. C)	Min Temp (Deg. C)	Humidity (%)	Wind Spd. Kmpd	Sunshine (Hours)	Solar Rad. (MJ/m ² /d)	Eto (mm/d)	Rainfall (mm)
January	26.3	10.7	52.5	143.7	8.9	17.0	3.6	1.7
February	29.0	12.8	54.0	127.4	9.3	19.5	4.1	1.8
March	33.0	17.4	58.0	143.7	9.6	22.3	5.3	1.1
April	35.4	21.4	62.0	181.3	10.3	25.0	6.4	0.0
May	36.4	24.9	65.5	259.7	10.2	25.3	7.2	0.9
June	35.9	26.7	70.5	264.6	7.9	21.8	6.3	91.6
July	33.0	25.7	78.0	254.8	5.0	17.4	4.8	197.6
August	31.5	24.8	80.5	231.9	4.9	16.9	4.3	180.3
September	32.2	23.5	76.5	158.4	7.0	19.0	4.5	62.0
October	34.5	21.2	62.0	114.3	8.8	19.5	4.6	28.6
November	31.8	16.7	52.0	112.7	9.0	17.5	3.9	7.0
December	27.9	12.4	52.5	122.5	8.6	15.9	3.3	0.8
Total	-	-	-	-	-	-	-	573.4
Average	32.2	19.9	63.7	176.3	8.3	19.8	4.8	-

(Source :CGWB)

5.4 TOPOGRAPHY AND DRAINAGE

Gop mines area is coastal upland with number of isolated rocky pediments and pediments. The prominent land form is the GOP hill trending in East-West direction. The regional slope is North East to South west and ground elevation varies from 120 to 200 m above Mean sea level (m amsl). Two small dully is flowing in the Mines area and crosses railway line in the western side as seasonal drainage.

The prominent geomorphic units identified in the area through interpretation of Satellite imagery are 1) Structural Hills (SH). 2) Rocky pediment/ Pediment 3) Buried Pediments and man made structures. The topsoil occurring in the study site is grey coloured loam derived from weathering of country rock. The thickness

of top soil varies from place to place depending on the extent of weathering of host Deccan trap rocks. It is very thin in major part of the study area
The Google map of the study area showing the land use of mines, built up area near railway station and cultivated lands are shown in Fig-3.

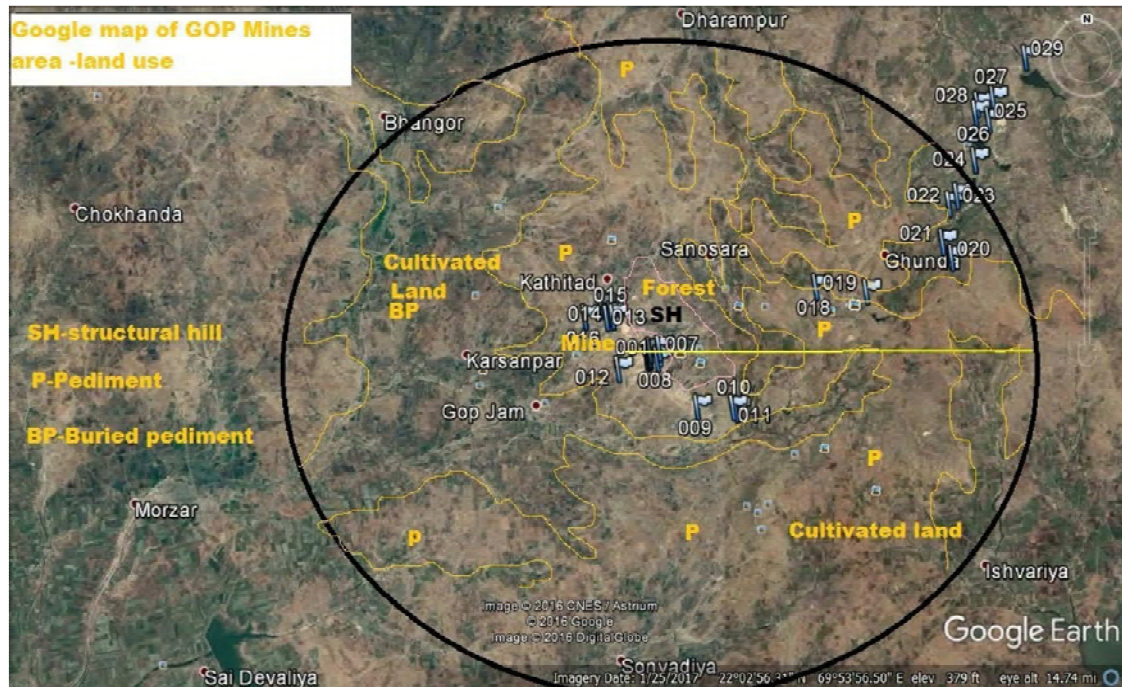


Fig-3 Google map of Gop Mines landforms& Land use

The 10 km area surrounding the mines is unique coastal upland with mining and agriculture. The drainage is few and also there are few ponds and other surface water bodies with barren land surrounding the hillock .

5.5 GEOLOGY

Regional Geology

The miliolitic limestone deposit in the leasehold area at Gop occurs in the valleys and also along hill slope and well extending on the low flat ground Gop Limestone deposit occurs along the southern slopes of Gop hill ranges trending in an east west direction. The prominent Gop hill ranges are occupied by basalt belonging to Deccan traps. Geologically Miliolitic Limestone deposit of Recent age in Saurashtra coastal region is one of the most widespread and important mineral wealth of Gujarat State. The basaltic traps and associated lava differentiates of the

Deccan trap occupying extensive area of Saurashtra region form the oldest basement rocks.

The regional stratigraphic sequence is given in table-3 below:

Table -3 Stratigraphy of GOP area

AGE	FORMATION	ROCK TYPE
Recent (Holocene)	Alluvium/Recent Limestone	Alluvial Soil, Black-brown soil, coastal limestone
Early Holocene to Late Pleistocene	Miliolite Formation	Arenaceous limestone and calcareous sandstone
Pliocene	Dwarka Beds	Gypsiferous clay and sandy foraminifer limestone
Miocene -----	Gaj Beds --Unconformity--	Clay and calcareous clay -----
Paleocene to Upper Cretaceous	Deccan Trap	Basalt and its derivatives including the intermediate and acidic rock types like, dacites, granophyres etc.

The rocks of the Miliolite Formation have the appearance of dirty white, friable, oolitic calcarinite. The rocks occur in beds which show a gentle eastward dip of 5° to 14°. The rocks are extensively cross-laminated showing dune type current bedding. Alternating coarse and fine grained lamination is common. They occur at various levels, in the coastal plains, along the foothills and high up in their glens. The name “miliolite” has been derived from the Miliolidae, belonging to the common foraminifera present in profusion in the rock. Composition-wise, the

rocks are extremely variable ranging from near pure limestone devoid of sand to calcareous sandstone and clays limestone.

The rock formations originated as beach sediments formed in agitated, warm and very shallow waters. They were subsequently cemented by calcspar precipitated from sea water saturated with CaCO_3 . The warm, shallow, circulating waters were favourable living areas for marine organisms which have left their in shells and faecal pellets.

The occurrence of the Pleistocene beach limestone all over Tertiary coastal plains fringing the Deccan Trap plateau and deep in the interior of the Deccan Trap country at high elevations, tends to lead to the conclusion that during Pleistocene period the sea level stood much higher than at present. This may be true in respect of the areas of the coastal plain and the foothill regions. But the occurrence of the Miliolite rocks at higher elevation in the interior areas also point to an Aeolian origin indicating that the windblown particles from the fragmented beach sediments might have been deposited in the valleys of the high hills which acted as natural wind barrier and the sea need not have transgressed to such great heights in order to form the thinner layers of the Miliolite rocks at such higher altitudes.

LOCAL GEOLOGY

The limestone bearing lease hold area of Shree Digvijay Cement Co. Ltd. at Gop Mine is geologically miliolite limestone deposit. The rainwater flows down the slope of the area and flows into the nearby areas. The prominent Gop Hill ranges trending in an East-West direction occupied by Basaltic Traps, forms the oldest basement rock exposed in the area.

The Limestone formation is practically horizontally bedded and general off white to buff in colour. The Limestone is soft, porous and friable in nature but also compact, hard and boundary at places. Thickness varies from 0.5 meters to 6.0 meters. The variation is due to undulating basalt floor. However it is not continuous and separated by basalt rock intrusion at irregular places

On the basis of field observation and their co-relation with excavated pits in the area, the general sequences of Litho units encountered in the Gop mining Lease area is as shown below:-

Local stratigraphic sequences in Gop Lease area

Rock type	Thickness	Formation	Geological age.
Oolitic Miliolite Limestone	0.5 to 6 meters	Miliolite Limestone	Pleistocene to sub Recent
.....Unconformity.....			
Basaltic trap rock altered at top	Thickness not known	Deccan traps	Paleocene to Upper Cretaceous

The weathered and jointed rocks are seen in the dug well sections in the study area while bore wells have encountered massive and fractured rock formation. The well cuttings at the Gop and Zinavari villages is highly compact and rock exposures are seen in most of the forest and waste land region. These are essentially basaltic flows having general horizontal to near horizontal disposition over large area. The basaltic flows do not have any primary porosity in the lower massive portion, but the top vesicular portion has some porosity because of the vesicles formed due to escaping gases. Both massive and vesicular portions have no primary permeability, as the vesicles are seldom interconnected.

6.0 GENERAL HYDROGEOLOGY

All the rock units, found in this region, are capable of yielding water. The yield in different rock types, however, varies with differences in permeability. Most of the wells are dug or open with the exception of some which are dug-cum-bore wells.

Groundwater occurs in water table as well as semi-confined to confined conditions. The water table aquifer occurs from 0 to 20 m or less. Since the saturated thickness of water table aquifer is not consistent it is highly variable laterally. The top clays, fractured limestones and sandstones of Miliolite Limestone and Dwarka formations form the water table aquifer. The sandstones of Dwarka Formation form the semi-confined or confined aquifer. The description of various aquifers is presented below.

WATER IN MILIOLITE ROCKS - Miliolites, comprised of limestone, calcareous sandstone, and shelly sand, are the most important water bearing formations in the area. Groundwater circulating through porous Miliolite limestone through its numerous sink holes is arrested by the impervious beds of the Gaj series. The Miliolites therefore act as good reservoir for shallow groundwater. Water occurs in the Miliolite limestone under water-table conditions. Recharge to this formation, is affected mainly by direct precipitation over these porous formations, and by influent seepage from perennial and other ephemeral streams. Recharge is also affected by applied irrigation water. Dug wells piercing Miliolite limestone are numerous, each irrigating a small plot of land of 2 to 5 acres. The hydraulic gradient is towards the Arabian Sea.

Discharge of groundwater from the infiltration limestones is mainly affected by withdrawal of water for irrigation and other uses by dug-wells or dug cum-bore wells and by evapo-transpiration. Dug-wells in the Miliolite limestone are generally 10 x 10 feet. They yield on an average about 15,000 gallons per day. Most of the wells, using, mechanical pumps for lifting water, are however, capable of yielding 50,000 gallons per day. Such wells are commonly seen between Varaval, Chorwad, Mangrol and Sil and north of Degam and Kolikhara.

The chemical quality of water in Miliolite limestone is generally good. The average chloride content ranges from 150-250 parts per million. The total hardness and bicarbonates are comparatively high. The hardness-range, during winter season, is between 200 and 300 parts per million, while the bicarbonate range is between 300 and 400, during the same period. Close to the sea however, the Salinity increases. Although the chloride content increases considerably, the bicarbonates and hardness do not seem to increase in the same proportion.

WATER IN DWARKA BEDS - Dwarka beds are composed of yellow gypseous clays below and foraminiferal sandy limestone above, water in Dwarka beds occurs mainly under water-table conditions. Recharge to this formation is affected mainly by rain water percolating through its porous formations exposed in the central part of the Okhamandal, comprising the localities of Gadhechi – Kalianpur - Dhrasanvel.

Groundwater moves towards the Arabian Sea in the west and to the Okha Rann in the east. The central part thus forms a groundwater mound. Discharge is affected by withdrawal of water for industrial and irrigational purposes. Some groundwater seepages are seen towards East around Charakla and Tupni in the vicinity of the

Okha Rann. Such seepages and evapo-transpiration appear to contribute much to the discharge of groundwater. Because of the clayey nature of the formations and the narrow stretch of sandy limestone exposed to recharge, the rocks of the Dwarka beds are generally poor aquifers. The average diameter of wells in this rock series is approx. 10 feet.

The chemical quality of water in the rocks of Dwarka series is generally poor. They are high in Chloride content (average range between 500 and 700 parts per million). The bicarbonates range between 400 and 600 parts per million. Close to creeks and to the Rann, the quality of water deteriorates considerably.

WATER IN GAJ SERIES - The rocks of the Gaj series consist of yellow and brown limestone, clays and grits often nearly and gypsiferous. Water in the rocks of this series occurs both under confined and water-table conditions. Recent drilling results have shown that the deeper aquifers yield meager supplies of groundwater; the quality of water is extremely saline. Recharge to this formation is affected by rain water percolating through its granular beds, exposed northward close to Deccan Trap boundary. Since the upper granular beds are immediately underlain by impervious clay beds of fairly good thicknesses, the deeper permeable beds of the Gaj hardly get any recharge. Moreover the area, over which they are exposed to recharge, is restricted only to a few miles (about 2 to 4). The upper granular beds however, get good recharge through rain and through infiltration from perennial and ephemeral streams. The movement of the groundwater is to the south and south-west, towards the Arabian Sea. In the absence of reduced level data, the magnitude of the hydraulic gradient could not be determined.

Discharge of groundwater from the Gaj beds is mainly affected by withdrawal of water for irrigation and other uses. The upper granular bed of the Gaj series, consisting of limestone and grit, is a good aquifer, for shallow groundwater.

WATER IN ALLUVIUM - The alluvial deposits of this region invariably yield highly saline water-unsuitable for irrigation or domestic uses. As such, wells are very rare in this area. Water for domestic use is generally drawn from the nearby stream, if any, or from the village pond. Very few of the wells are used for irrigation purposes. Small scale irrigation is done only locally from wells located on the banks of perennial or ephemeral streams. Because of the clayey nature of alluvium, recharge is poor.

The groundwater development in the area is mainly through dug wells, dug cum bore wells, bore wells and tube wells. The district can be broadly divided into two units. The major area is covered by hard rock formation i.e. Deccan traps. Groundwater development in this area is by dug well and bore wells. The yield ranges from 80-150 lpm in dug wells and 60-300 lpm in bore wells. The soft rock formation in the district has limited resources. The discharge in these formation ranges from 200-300 lpm in dug well zone and 200-400 lpm in tube well zones. The yield potential and suitability of drilling techniques is given below:

Taluka	Wells feasible	Drilling Technique	Depth of Well	Discharge (Liters per minute)
Dwarka, Kalyanpur, Jodiya	Dug Wells	Manual	10-25	200-300
	Tube Wells	Direct Rotary, Reverse Rotary	50-100	200-400
Jamnagar, Khambaliya, Lalpur, Kalawad, Jam Jodhpur, Bhanvad, Dhrol, Kalyanpur	Dug Wells	Manual	10-25	80-150
	Bore Wells	Down the Hole Hammer	100-200	60-300

6.1 GROUNDWATER CONDITION

The ground water condition in and around the Gop mine site covering 10 km radius is studied in detail. The northern part of the site is part of GOP hill while the southern side is mostly barren land with isolated built up area. The secondary porosity and permeability developed due to fracturing and jointing provides passage for infiltration, storage and movement of groundwater. The weathered zone extends to about 3-7m bgl in the western side of railway line and eastern side of Gop hill while it is very thin in mines area. Weathered flow contacts extend to greater depths in few places. The permeability of these zones are further intensified by fracturing and jointing. These interflow zones and fractured and jointed zones

have given rise to stratified aquifer system, which is responsible for occurrence of water even at greater depths as inferred from the existing bore wells and dug wells.

As per CGWB report, the depth of water level in the area ranges from 3.30 m bgl to 25.40 bgl during the pre monsoon period while during the post monsoon the water level ranges from 0.06 to 17.50 m bgl. The yields of the wells tapping weathered basalts are in the range of 20-100m³/day. Those in which interflow zones have been tapped 100-400m³/day. The bore wells drilled in the district have yields ranging from 100 to 500m³/day.

There are few bore wells and dug wells in Study area which are low yielding due to unfavourable hydrogeological setting. Few wells are inventoried and details are given in table. The wells studied are shown in the Google map in Fig.3 with GPS number and also detailed in Table-1.

Table: Details of Dug wells & Bore wells existing at Mine area

Particulars	Temple Well 1	Temple Well 2	Private Well 3	Gopnath Temple Well 4	Irrigation Well in Ghunda village	Irrigation well
Diameter (m)	3.95	4.2	4.0	4.2	5.5	4.2
Depth reported/ Measured (m)	21.0	23.9	23.0	19.4	19.2	15.5
Water Quality	Good	Good	Good	Good	Good	Good
Static water level M below top of casing	12.6	22.2	21.3	14.8	14.7	10.0
Use	Temple needs at hilltop	Temple needs	Poor yield Horizontal bore exists	Mode rate yield	Irrigation	Irrigation well
Remarks	Low yield and Pumped to well 2	Acts as storage sump for pumping to hill top	0m bore well in land gives 1lps(liter per second)	Used for irrigation & water quality monitoring	Located in Nala side and weathering is 6 m5 HP submergible pump	Fitted with Diesel pump

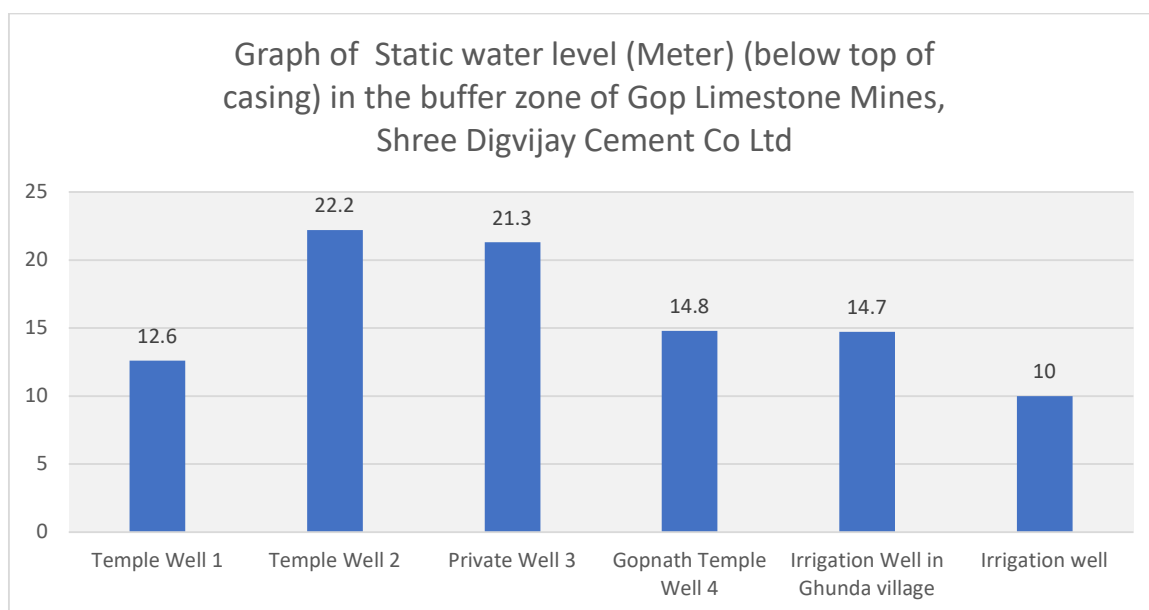
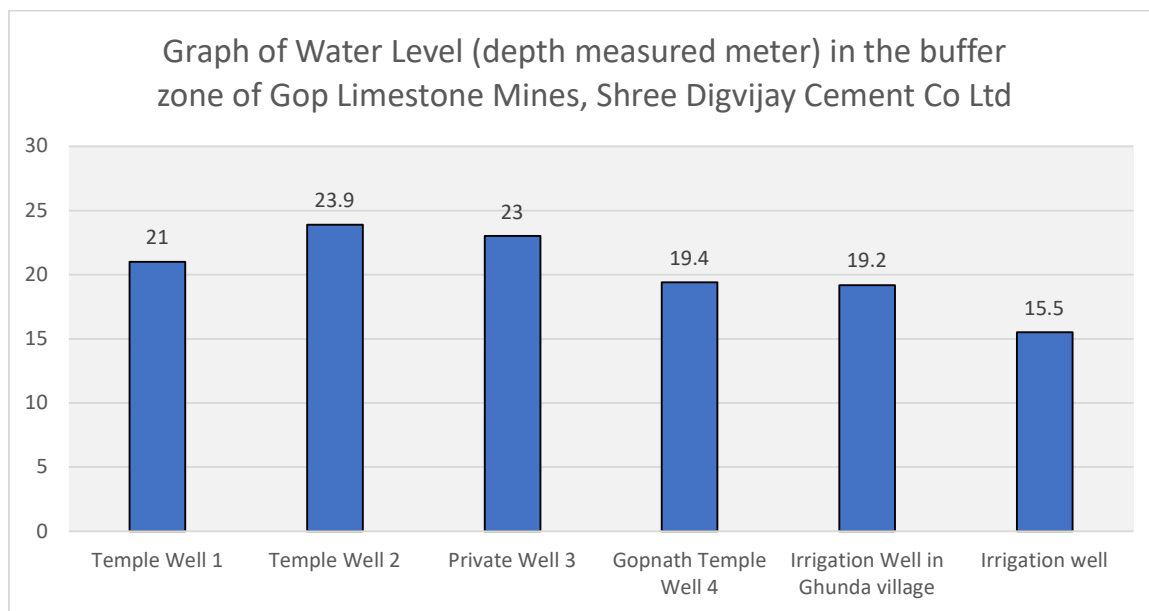
There are few unused and failed bore wells in the study area near the Gop colony and the reported quality deterioration due to sewerage is the reason for disuse of well water.

6.2 SPATIAL AND TEMPORAL VARIATIONS IN WATER LEVELS AND GROUND WATER QUALITY

Groundwater Analysis

S. No	Parameters	Unit	Temple Well 1	Temple Well 2	Private Well 3	Gopnath Temple Well 4	Irrigation Well in Ghunda village	Irrigation well	Specification as per IS 10500- 2012	
									Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	Colour	Hazen	2.54	3.03	3.02	2.5	2.93	2.12	5	15
2	Turbidity	NTU	0.89	0.81	0.79	0.78	0.81	0.92	1	5
3	pH at 25°C	-	7.92	7.93	7.7	7.8	7.8	8	6.5 to 8.5	No Relaxation
4	Conductivity at 25°C	µS/cm	719	705	715	712	718	721		
5	Total Dissolved Solids	mg/l	460	428	456	462	474	462	500	2000
6	Total Hardness (as CaCO ₃)	mg/l	116	112	119	122	127	141	200	600
7	Calcium (as Ca ⁺²)	mg/l	26	24	22	25	27	42	75	200
8	Magnesium (as Mg ⁺²)	mg/l	12	13	15	12	14	27	30	100
9	Chloride (as Cl ⁻)	mg/l	80	72	68.75	78	82	108	250	1000
10	Sulphate (as SO ₄ ⁻²)	mg/l	19	18	17	15	19	38	200	400

11	Nitrate (as NO ₃ ⁻)	mg/l	22	25	27	30	32	5.18	45	No Relaxation
12	Fluoride (as F ⁻)	mg/l	0.17	0.13	0.12	0.14	0.19	0.38	1	1.5
13	Total Alkalinity (as CaCO ₃)	mg/l	210	235	198	240	260	258	200	600



Chemical analysis of groundwater samples reveals that there is no considerable variation in chemical composition of water samples collected from different sources (bore wells/dug wells) of nearby areas. Groundwater quality is found to be good in general and suitable for drinking purposes/human consumption as certain major parameters were found within permissible range for drinking water standards as described by Indian Standard: 10500-2012.

7.0 IMPACT OF GROUNDWATER EXTRACTION ON LOCAL GROUNDWATER

Rainwater harvesting/Artificial groundwater recharge is to be done to minimize the undesirable effect on groundwater status. It is necessary that groundwater storage of an area must be arranged by rainwater harvesting so that the existence of any industry does not adversely affect the groundwater situation.

The artificial recharge to groundwater aims at augmentation of groundwater reservoir by modifying the natural movement of surface water utilizing suitable civil construction techniques. Artificial recharge techniques normally addresses to following issues –

- (i) To enhance the sustainable yield in areas where over-development has depleted the aquifer.
- (ii) Conservation and storage of excess surface water for future requirements, since these requirements often change within a season or a period.
- (iii) To improve the quality of existing ground water through dilution.
- (iv) To remove bacteriological and other impurities from sewage and waste water so that water is suitable for re-use.

The basic purpose of artificial recharge of ground water is to restore supplies from aquifers depleted due to excessive groundwater development.

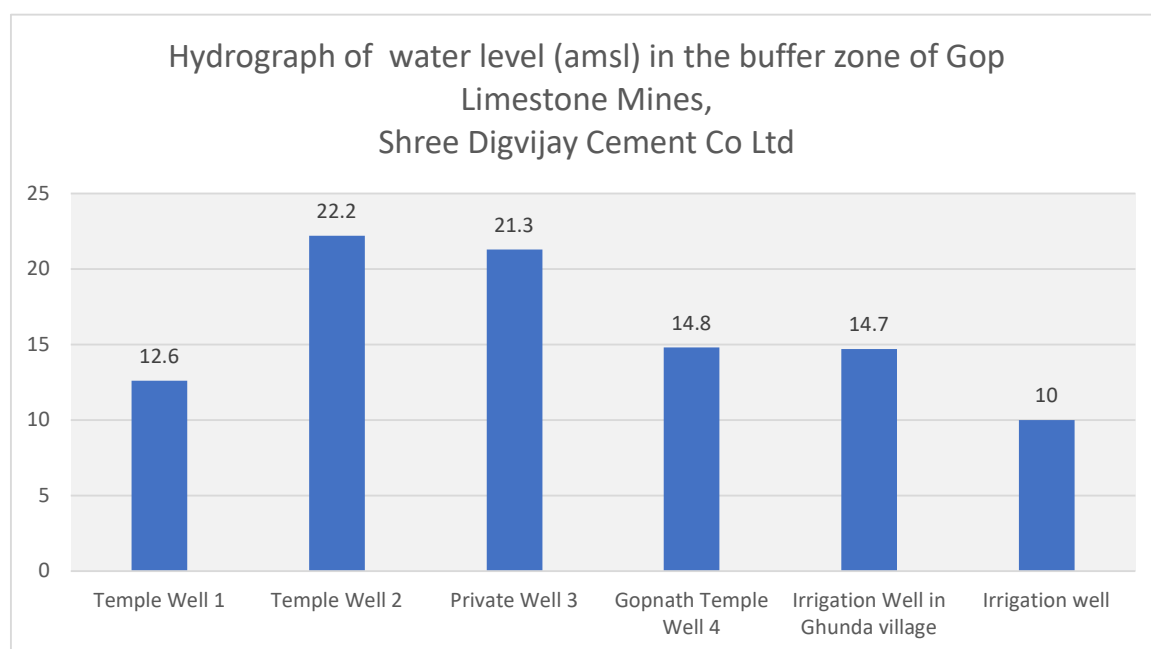
The total fresh water requirement for Limestone mine of Shri Digvijay Cement Company Limited is **30.0 M³/day** which shall be met out from ground water supplies/ mine sump water/accumulated rainwater (as already developed). Although, the zone in which **mine site is falling i.e. Jamjodhpur taluka, coming under Safe Category (CGWB), yet no significant deficit in groundwater storage in nearby areas.** However, rainwater harvesting measures is being practiced for minimizing dependency on groundwater resources as well as betterment and augmentation of natural resources in a long run. Mined out pits of

the lease area is developed as groundwater recharge pits and fulfil the requirement of lessee.

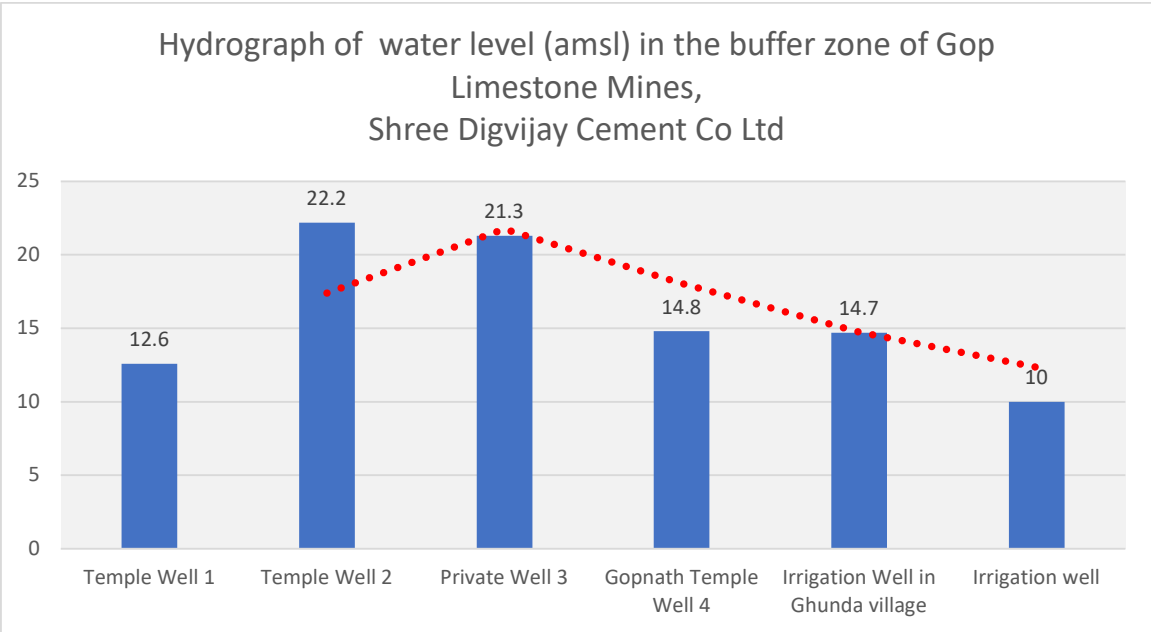
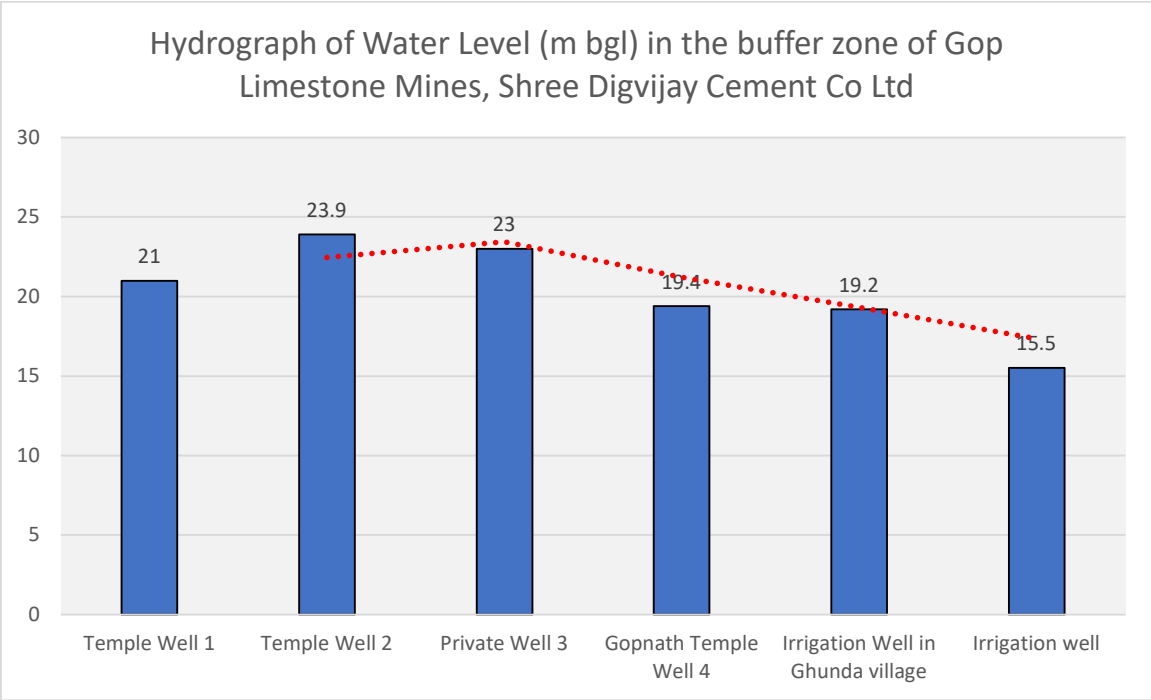
7.1 HYDROGRAPH OF WATER LEVEL/PIEZOMETER IN MONITORING WELLS

Details of Groundwater Level Monitoring in Buffer Zone, Gop Limestone Mines , Shri Digvijay Cement Company Limited, Jamnagar District

S.No.	Location	Northing	Easting	Type of Well	Water Level (m bgl) (m bgl)	Elevation (m amsl)	Water Level (m amsl) (m amsl)
1	Temple Well 1	22.044	69.919	Open Well	100	113	92
2	Temple Well 2	22.045	69.921	Open Well	91	113	89.1
3	Private Well 3	22.033	69.939	Open Well	96	117	94
4	Gopnath Temple Well 4	22.041	69.912	Open Well	149	164	144.6
5	Irrigation Well in Ghunda village	22.055	69.908	Open Well	110.1	124.8	105.6
6	Irrigation well	22.059	69.958	Open Well	165.6	175.6	160.1



7.2 TREND ANALYSIS OF HISTORICAL WATER LEVELS FLOW NET ANALYSIS



7.3 YEAR WISE/BENCH WISE MINE DEWATERING COMPUTATION **AS PER APPROVED MINE PLAN**

Based on groundwater level monitoring and pattern, during five year plan period, mining will be done above groundwater table. Hence, no groundwater seepage will be occurred. Total water volume to be intercepted in mine pits during five year plan period shall be rainwater accumulation only which needs to be dewatered for use of Dust Suppression/Plantation/and domestic use.

Year	Volume of Rainwater Accumulated (Cum)	Volume of Groundwater Seepage (Cum)	Total Volume to be Dewatered (Cum)
1st Year	135000	-	135000
2nd Year	137244	-	137244
3rd Year	136481	-	136481
4th Year	135965	-	135965
5th Year	136983	-	136983
Total	681673		681673

Maximum Rainwater Accumulation in Mine Pits = 681673 Cum

8.0 CONCLUSION

The ground water condition in and around the GOP Limestone mines and colony is highly variable from place to place depending on the ground elevation and thickness of overburden and top soil. In the absence of thick top soil in the study area, the runoff from the Hillock and low rainfall results in limited saturation of the shallow aquifer. The ground water development in the Jamjodhpur Taluka Assessment unit is low and the area falls in Safe category (CGWB)

Area is covered by Deccan trap rocks with shallow and deeper water bearing zones. Existing dug wells in the mines area and surrounding are giving low yield and not sustainable in summer.

The yield of bore wells of 60 to 75m varies from negligible to 2 liters per second (lps) and dug wells give 10,000 to 30,000 liters per day in summer while it gives about 20,000 to 1 lac liter per day in post monsoon period. The bores are fitted with 1HP submergible pump while the dug wells are pumped with 2 to 5 HP submergible pumps.



Annexure-10

GOP-2 LIMESTONE MINES
YEARLY EXPENDITURE STATEMENT
FOR ENVIRONMENT MANAGEMENT
 (For the Period of October-2023 to March-2024)

Sr. No.	WORK	Grand Total
1	Ambient Air & Noise Monitoring	26250.00
2	Water Sprinkling on haul roads	3850.00
3	Plantation	106248.00
4	Security and Maintenance	270000.00
	Total	406348.00


Manager Mines



SINCE 1944

By E-mail

Date- 31-10-2023

Gop-2/MoEF/HYC/C/302/3578

To,
 Deputy Director General of Forests (C)
 Integrated Regional Office, Gandhi Nagar
 Ministry of Environment, Forest & Climate Change,
 A- Wing - 407 & 409, Aranya Bhawan,
 Near CH -3 Circle Sector-10 A,
 Gandhinagar -382010 (Gujarat)

Subject: Submission of Compliance Report of the conditions as laid down in the Environmental Clearance letter no. SEIAA/GUJEC/1(a)/774/2021 dated 10.06.2021 in respect of **Gop - 2 Limestone Mines for the half year period April - 2023 to September - 2023.**

Respected Sir,

As required, we are submitting herewith Pointwise compliance status to various stipulations, as laid-down in Environmental Clearance letter No. SEIAA/GUJEC/1(a)/774/2021 dated 10.06.2021 with supporting documents, is enclosed with the following Annexure: -

Sr. No.	Annexure	Sr. No.	Annexure
1	Annexure-1 (Form-O)	6	Annexure-6 (CGWA Renewal Application)
2	Annexure-2 (Plantation Photographs)	7	Annexure-7 (Vehicle Fitness Certificate)
3	Annexure-3 (Boundary Pillars)	8	Annexure-8 (Noise Level)
4	Annexure-4 (Ambient Air - Apr -23 to Sep -23)	9	Annexure-9 (Environment Yearly Expenses – Apr - 23 to Sep-23)
5	Annexure-5 (Approval Letter-Mining Plan)		

We hope that you will find the above submission in order.

Thanking you,

Yours faithfully,
 For **SHREE DIGVIJAY CEMENT CO. LTD.**

[Signature]
 31/10/23
 Manager Mine

Enclosures - As Above

Copy To:

1.The Environmental Engineer, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10A, Gandhinagar -382010.



REGISTERED A/D

GPCB-ID-30566

Gop/GPCB/Form 4/C/352/3782

Date: 27.04.2024

To,
The Member Secretary,
Gujarat Pollution Control Board
Sector 10 A, Gandhinagar
Pin - 382043 (Gujarat)

Subject: Submission of Form IV for our Gop (Composite) Limestone Mines pertaining to M/s Shree Digvijay Cement Company Limited.

Sir,

As required under Rule 6(5), 13(8), 16(6) and 20 (2) we are sending herewith the Annual Return in **Form - IV** in with respect to our **Gop (Composite) Limestone Mine**, survey no. 50/P & 17/P, village – Moti Gop & Jeenavari, Taluka - Jamjodhpur, District - Jamnagar, Gujarat for the year **2023-24**

We hope that you shall find the same in order.

Thanking you,

Yours faithfully,

For Shree Digvijay Cement Co. Ltd.

N. Santosh Kumar

N Santosh Kumar

Manager [Mines]

Encl. : As above

FORM – 4

[See the rule 6(5), 13(8), 16(6) and 20 (2)]

FORM FOR FILING ANNUAL RETURNS[To be submitted to State Pollution Control Board by 30th June of every year for the preceding period April to March] **(Financial Year 2023-24)**

1.	Name and Address of Facility	:	Shree Digvijay Cement Co. Ltd. Gop (Composite) Limestone Mine Survey No. Gop – 286/p, Zinawari – 91, Village-Gop/Zinawari, Taluka - Jamjodhpur, Dist. - Jamnagar (Gujarat)
2	Authorization No. and Date of issue:	:	AWH-106505 03.02.2020
3.	Name of the Authorized person and full address with telephone and fax number	:	Shri N Santosh Kumar Gop Limestone Mines P.O / At- Gop Moti, Via-Verad Dist- Jamnagar, Gujarat 360515 Tel No.-2882344272, Mob. No - 7752038929
4	Production during the year (product wise), wherever applicable	:	247275.846 MT (Limestone)

Part A. To be filled by hazardous waste generators

1	Total quantity of waste generated category wise (in MTA)	:	Type of Hazardous Waste	Quantity (in KL)
		:	Used Oil	0.050 KL
2.	Quantity dispatched			
	(i) to disposal facility		(ii) to recycler or co-processors or pre-processor	(iii) others
3	Quantity utilized in-house, if any -		0.050 KL	
4	Quantity in storage at the end of the year –Nil			

Part B. To be filled by Treatment, storage and disposal facility operators

1	Total quantity received.	:	Not applicable
2	Quantity in stock at the beginning of the year	:	Not applicable
3.	Quantity treated.	:	Not applicable
4.	Quantity disposed in landfills as such and after treatment.	:	Not applicable
5.	Quantity incinerated. (if applicable)	:	Not applicable
6.	Quantity processed other than specified above	:	Not applicable

Part C. To be filled by recyclers or co-processors or other users

1.	Quantity of waste received during the year	:	Not applicable
(i)	Domestic Sources	:	Not applicable
(ii)	Imported (if applicable)	:	Not applicable
2.	Quantity in stock at the beginning of the year	:	Not applicable
3.	Quantity recycled or co-processed or used	:	Not applicable
4.	Quantity of products dispatched (wherever applicable)	:	Not applicable
5.	Quantity of waste generated	:	Not applicable
6.	Quantity of waste disposed	:	Not applicable
7.	Quantity re-exported (wherever applicable)	:	Not applicable
8.	Quantity in storage at the end of the year	:	Not applicable

N. 
Signature of the Occupier or
Operator of the disposal facility

Date:27.04.2024
Place – Moti Gop

Hazardous Waste Disposal Statements

Gujarat Pollution Control Board

QTY is in Metric Tonnes

Year : 2023 - 2024

Month	Year	Comman SLF/TSDF	Captive SLF/TSDF	Comman Incinerable	Captive Incinerable	Co-Processed / Co-Incineration	Qty Utilized	sent to Recyclers	Self Recycle/Reuse/Captive Utilization	To Other State	#Trucks
April	2023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
June	2023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
July	2023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
August	2023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
September	2023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
October	2023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
November	2023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
December	2023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
As Per Yearly Return	2022-2023								0.000	0.000	0.100
January	2024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000
February	2024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
March	2024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.000

30566-Shree D C C Ltd (Gop Composite Mine),
VILL GOPJIVANVARI,
GOP & Jinavari - 360515
DIST : Jamanagar, TAL : Jamjodhpur, SIDC : Not In Gidc
PHONE NO : -

Authorised Signatory



Yours Faithfully



REGISTERED A/D

GPCB-ID-30566

GOP/GPCB/Form -V/C/352/3787

Date: 29.04.2024

To,
The Environmental Engineer,
Gujarat Pollution Control Board,
Sector 10 A, Paryavaran Bhavan
Gandhinagar - 382010 (Gujarat).

**Subject: Submission of Form V for our Gop (Composite) Limestone Mines pertaining to M/s
Shree Digvijay Cement Company Limited**

Sir,

We hereby submitting the form-V (Environment Audit Report) for the financial year ending 31st March 2024 (2023-2024) for our Gop (Composite) Limestone mines.

We hope that you shall find the same in order.

Thanking you,

Yours faithfully,

For Shree Digvijay Cement Co. Ltd.

N Santosh Kumar

Manager Mine

Encl.: As above

Copy to Regional officer, GPCB, Jamnagar

**SHREE DIGVIJAY
CEMENT CO. LTD.**

Registered Office & Works
Post- Digvijaygram 361140, Jamnagar,
Gujarat, India.
CIN L26940GJ1944PLC000749

+91 288 234 4272-75
+91 288 234 4092
info@digvijaycement.com
www.digvijaycement.com

FORM V

Environment Audit Report for the financial year ending the 31st March 2024

PART – A

1. Name & Address of the Owner/
Occupier of the Industry
Operation or process : **Shree Digvijay Cement Co. Ltd.
GOP (Composite) Limestone Mine
Survey No.50 /17, Village-Gop/Jeenavari,
Taluka-Jamjodhpur, Distt. - Jamnagar
(Gujarat)**
2. Industry Category :
Primary: (STC Code) : **Mining Industry**
Secondary: (SIC Code)
3. Production Capacity : **0.25 Million TPA**
4. Year of Establishment : **01.06.1978 & 17.06.86**
5. Date of the last Environmental
Statement submitted. : **22.05.2023**

PART – B

Water & Raw Material Consumption

(i) * Water consumption M³ / day

Process	:	0
Cooling	:	0
Domestic (Drinking)	:	10.87 KL
Dust Suppression	:	0.65 KL
Plantation	:	0.51 KL

(*) P. S. Yearly consumption spread equally over 365 days of a year.

	Name of products	Process water consumption per unit of product	
		During previous Financial Year 2022-23	During current Financial Year 2023-24
	LIMESTONE	Not Applicable	Not Applicable

(ii) Raw material consumption

S. No.	Name of raw materials	Name of Products	Consumption of raw material per unit of output	
			During the previous financial year 2022-23	During the current financial year 2023-24
1.	Explosives	Limestone	0	0
2	Ammonium nitrate		0	0
3	Detonating Fuse		0	0
4	Safety Fuse		0	0
5	Detonator		0	0
6	Cord Relays		0	0
7	HSD		86700 L	85700 L
8	Lubricant oil		1509 L	425 L
9	Grease		233.5 Kg	337 Kg

PART – C

Pollution discharged to Environment/unit of output

(Parameter as specified in the consent issued)

	Pollutants	Qty. of pollutants discharged (Kg/Day)	Concentration of pollutants in discharges (Mg/Nm ³)	Percentage of variation from prescribed standard with reasons
(a)	Water	9 KL goes to ground through septic tank and soak pit,		
(b)	Air	Enclosed Annexure-1		
		--	--	--
		--	--	--
		--	--	--

Note: The prescribed limit of concentration as per the Consent issued –

Sr. No.	Pollutant	Time Weightage Average	Concentration in Ambient Air
1	Sulphur dioxide (SO ₂) in Microgram/M ³	Annual 24 hours	50 80
2	Nitrogen Dioxide(NO _x) in Microgram/M ³	Annual 24 hours	40 80
3	Particulate Matter (Size less than 10 Microgram/M ³ or PM 10 Microgram/M ³)	Annual 24 hours	60 100
4	Particulate Matter (Size less than 2.5 Microgram/M ³ or PM 2.5 Microgram/M ³)	Annual 24 hours	40 60

PART – D

Hazardous Wastes

(As specified under Hazardous Wastes/Management & Handling Rules, 1989)

	Hazardous Wastes	Total Quantity (Kg.)	
		During the previous Financial Year-2022-23	During the current Financial Year-2023-24
(a)	From Process (Used Oil from Machines)	100 Litres	50 Litres
(b)	From pollution control facilities	-	-

PART – E

(Solid Wastes)

		Total Quantity	
		During the Previous Financial Year	During the current Financial Year
(a)	From process	Not applicable, as there is no generation of solid waste from the process.	
(b)	From pollution control Facility		
(c)	i) Quantity recycled or re-utilised within the unit		
	ii) Sold		
	iii) Disposed		

PART – F

Please specify the characterization (in terms of concentration and quantum) of Hazardous as well as solid waste and indicate disposal practice adopted for both these categories of waste.

The used oil when taken out of machine at oil change time, it is collected in an empty barrel. This oil is reused for external lubrication of running moving parts of loading machine and lubrication system of drill machine.

Not applicable as described above in Part – E.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

Due to additional higher investment cost of pollution control monitoring and abatement measures there is slight additional burden on cost of production. Thus, the cost of production increases to certain extent. However, as it is absolutely necessary to have a pollution control to conserve ecology & environment, we have planted trees in the mines.

PART – H

Additional measures investment proposal for environmental protection including abatement of pollution, prevention of pollution.

Following control measures were contemplated for reducing dust in mines.

1. Dust suppressed on haul road by water sprinkling.
2. Fumes and smoke emissions from HEMM controlled by regular maintenance and timely overhaul of engines.
3. Tarpaulin covering on the transporting vehicle before leaving the mine site.
4. AAQ monitoring is done on regular basis. Contract awarded to Royal Environment Auditing and consultancy Service, Rajkot and reports are submitted to GPCB, Gandhinagar, MOEF, New Delhi and Regional Office of MOEF.

PART – I

Any other particulars for improving the quality of the environment

Following are various measures taken by us: -

1. Adequate plantation has been done in mines.
2. Mining is carried out as per Approved Mining Plan.
3. Sense of creating & maintaining clean environment among the employees are being created by celebrating Mines Environment and Mineral Conservation Week every year and Environment Day and other such functions time to time on Environment, keeping slogan boards on environment etc.

Date: 29.04.2024

Signature of a person carrying out
an industry, operation or process



Name: N Santosh Kumar
Designation: Manager (Mines)
Address: Shree Digvijay Cement Co. Ltd.
P.O. Digvijaygram 361140
(Via) Jamnagar, Gujarat