



By E-mail

Gop/MoEF/HYC/C/302/2239

Date- 20-11-2020

The Director (S),
Ministry of Environment & Forests and Climate Change,
Regional Office, Western Region,
Government of India,
Kendriya Paryavaran Bhavan,
Link Road No.3, E-5 Ravi Shankar Nagar,
Bhopal 462 016 (MP)

Subject: Submission of Compliance Report of the conditions as laid down in the Environmental Clearance letter no. J-11015/47/2005-IA, II (M) dated 07.10.05-in respect of Gop (Composite) Limestone Mines for the half year period **April-20 to Sep-20**

Respected Sir,

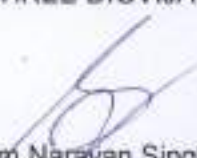
As required, we are submitting herewith Pointwise compliance status to various stipulations, as laid-down in Environmental Clearance letter No.J-11015/47/2005-IA.II(M) dated 07.10.2005 with supporting documents, is enclosed with the following Annexure:-

- | | | | |
|----|--|---|------------|
| a. | Environment Statement in Form V for the year 2019-20 | : | Annexure A |
| b. | Ambient Air Quality Reports | : | Annexure B |
| c. | Noise Level | : | Annexure C |
| d. | Environment Yearly Expenses Statement | : | Annexure D |

We hope that you will find the above submission in order

Thanking you,

Yours faithfully,
For SHREE DIGVIJAY CEMENT CO. LTD.


Shyam Narayan Singh
Manager (Mines)

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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Gujarat, India.
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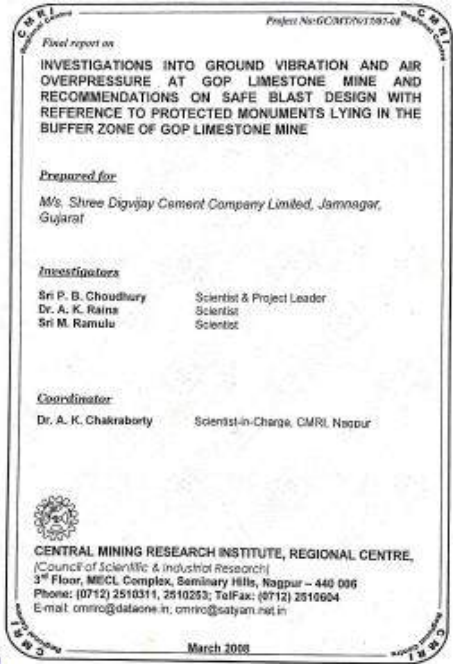
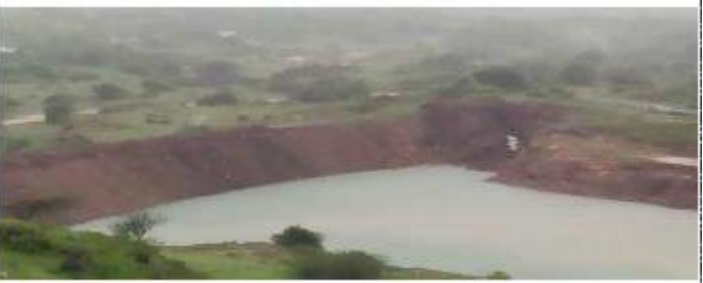
SHREE DIGVIJAY CEMENT CO. LTD.

GOP (COMPOSITE) LIMESTONE MINE

SIX MONTHLY COMPLIANCE STATUS

Apr-20 to Sep-20

S. NO.	CONDITIONS	COMPLIANCE STATUS																									
A. Specific Conditions																											
(i)	The production capacity of this mine shall not exceed 0.25 MTPA with a capping of production of limestone to a capacity of 2.2 MTPA from all 5 Mines, namely Gop, Pachhtar, Mokhana, Chorbedi and Bhogat Limestone mines put together subject to the individual mines obtaining environmental clearance individually.	Production during Apr-20 to Sep-20 is 83919.198 MT from Gop (Composite) Limestone Mine. 04 Mines viz. Gop, Chorbedi, Pachhtar and Mokhana Mines have obtained EC individually as detailed below: Gop Mines – J-11015/47/2005-IA.II (M) dated 7th October 2005. Chorbedi Mines – J-11015/47/2005-IA.II (M) dated 7th October 2005. Pachhtar Mines - J-11015/49/2005-IA.II (M) dated 7th October 2005. Mokhana Mines - J-11015/48/2005-IA.II (M) dated 7th October 2005. Production of all 05 Limestone Mines during Apr-20 to Sep-20 and its capacities are as under- <table><tr><th>Name of Mine</th><th>EC Capacity in Million Tons</th><th>Production in Million Tons</th><th>Remarks</th></tr><tr><td>Gop</td><td>0.25</td><td>0.084</td><td rowspan="4">Within the EC Limit</td></tr><tr><td>Pachhtar</td><td>1.00</td><td>0.227</td></tr><tr><td>Chorbedi</td><td>0.90</td><td>0.000</td></tr><tr><td>Mokhana</td><td>0.70</td><td>0.000</td></tr><tr><td>Bhogat</td><td>EC not granted</td><td>0.000</td><td></td></tr><tr><td>Total</td><td>2.85 <i>(limited to 2.20)</i></td><td>0.311</td><td></td></tr></table> Mokhana Mines: Whole lease area of Mokhana Mines was under Forest Land for which Possession taken over by Forest Department on 07.08.2004. The operations were stopped since 05.08.2004. Bhogat Mines: The area covered under CRZ and EC for this mine is rejected vide MoEF letter 09.10.2006. There is no production from Bhogat Mines Since 21.10.2004.	Name of Mine	EC Capacity in Million Tons	Production in Million Tons	Remarks	Gop	0.25	0.084	Within the EC Limit	Pachhtar	1.00	0.227	Chorbedi	0.90	0.000	Mokhana	0.70	0.000	Bhogat	EC not granted	0.000		Total	2.85 <i>(limited to 2.20)</i>	0.311	
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Total	2.85 <i>(limited to 2.20)</i>	0.311																									
(ii)	The recommendations of the Expert Committee on Historical Religious Monuments constituted under the District Collector shall be complied with to ensure that the mining does not have adverse impacts on the Sun temple and Gop Nath temple. The compliance report shall be submitted regularly to the MOEF Regional Office, Bhopal and to the GSPCB.	As per the recommendation of Expert committee on Historical Religious Monuments No blasting within 1km of Sun Temple and within 500m of Gopnath Temple is performed. At present there is No Blasting in the Mine at all since 2015. The Compliance reports are being submitted Half Yearly to MOEF Regional Office, Bhopal and to the GPCB.																									
(iii)	A study to be carried out by a specialized agency such as the CMRI shall be commissioned to determine the ground vibrations during blasting operations and the precautionary and safety measures recommended shall be	A study has been carried out by CMRI, Nagpur in the March-2008 to determine the ground vibrations during blasting operations; and the precautionary and safety measures as recommended have been implemented for safety of monuments located in the buffer zone. Now the drilling & Blasting has been eliminated by the use of Ripper –Dozer and Excavator combination, an Eco-Friendly																									

	implemented for the safety of the monuments located in the buffer zone.	mining machinery.
		
(iv)	Timing of primary blasting shall be stipulated and specified. The notice displaying such timing shall be displayed in local language for the benefit of local population.	Complied as directed. Timing of Primary Blasting stipulated during 12 to 2 pm. Notice displaying the timing is fixed at the Mines Entry. However, there is no Drilling and Blasting since 2015. 
(v)	Drainage plan in mining area shall be so designed to make most effective use of water resources.	Check dam and bunds are provided to store rain water in the mined-out area. Water drains through natural channels into these ponds to meet the year- long demand of cattle of the region besides recharging Ground water. 
(vi)	No river water should be used for water spraying in the mining area and on the Katchha roads.	No river water is used for water spraying in the mining area. Water from outside is purchased and sprinkled through Tanker.
(vii)	First Aid facilities shall be provided at convenient locations. Emergency and First Aid Training shall be imparted to	A First Aid Facility is provided at pit head in the mine. Company's Doctor & Officers holding First Aid Certificate are imparting training to all operating staff.

	all the operating staff at all levels and to local affected villages.	Free medical and Ambulance facilities are provided to local villagers in the area.
		
(viii)	Socio-economic plan should be prepared in consultation with local community and the plan should be implemented in a phased manner and published at local level in Gram Sabha.	Socio-economic plan is prepared in consultation with local community and the Plan is being implemented in a phased manner.
(ix)	Catch drains and siltation ponds of appropriate size and check dams should be constructed to arrest silt and sediment flows from the mining operations. The drains should be regularly de-silted and maintained properly. Garland drain (size, gradient & length) shall be constructed for both mine pit and for the waste dump. Sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of silt material. Sedimentation pits should be constructed	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). Pits and Drains are marked in Surface Plan and details of these pits have been submitted vide our Email dated 20.03.2020 as Annexure 1. Size of the Sump (Pit) is capable to receive and store 2355487.50 Ltrs of water with average rainfall of 63 Cm which is well above 50% safety margin to take care of sudden Peak rainfall. Sumps are large enough to provide adequate retention period for proper settling of silt material. Details of Drains & Siltation Pits have been submitted vide our Email dated 20.03.2020 as Annexure 2
		
(x)	Drills should be wet operated or with dust extractors.	We are not operating drills.
(xi)	Controlled blasting should be practiced and only between 12 Noon and 2 PM. The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented. No blasting shall be carried out within	Drilling and Blasting is not being performed. It has been stopped now. Blasting when being performed earlier was conducted during 12 to 2pm with control measures to arrest fly rocks and control ground vibrations. No Blasting carried out within 500 m distance from Gopnath Temple and 1km Distance from Sun Temple.

	500 m distance from Gop Nath Temple and 1 KM distance from the Sun Temple.											
(xii)	Plantation shall be done over the lease area includes a green belt of adequate width around the ML area, along roads by planting suitable native species in consultation with the local DFO/Agricultural Department. The density of trees should be around 1000 plants per hectare.	Plantation is being done within and outside lease area. We have done year wise plantation in mines area as per mining plan. A table with year wise plantation details is given below: <table><tr><th>Year Nos. of</th><th>Nos. of trees</th></tr><tr><td>Upto 2018-19</td><td>8970</td></tr><tr><td>2019-20</td><td>2959</td></tr><tr><td>2020-21</td><td>4870</td></tr><tr><td>Total</td><td>16799</td></tr></table> We have planted 4870 Nos of plants in the year 2020-21 against the target of 2000 Nos plants as per our Email dated 20.03.2020 regarding development of greenbelt over the next 10 years.	Year Nos. of	Nos. of trees	Upto 2018-19	8970	2019-20	2959	2020-21	4870	Total	16799
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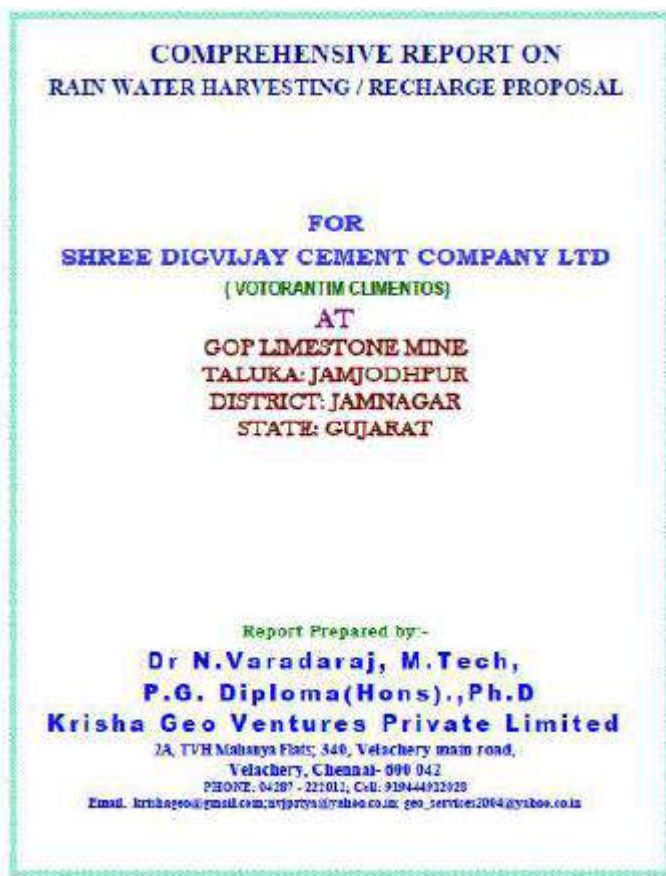


(xiii)	Ground water shall not be encountered during mining operations. Prior approval of the MOEF and CGWA shall be taken for mining below ground water.	The Ground Water table is in the range of 17-20m belowground level (bgl) (Pre-Monsoon) and 6-12m bgl (Post-Monsoon). Depth of deposit lies well above Water Table at 5-6 mtrs (BGL). So, there is no chance of encountering Ground Water during Mining Operations.
(xiv)	Rain water harvesting measures shall be taken up in consultation with the Regional Office, CGWB to recharge and augment groundwater in the area.	Rainwater harvesting measures being done with channelization of rain water inside the excavated pits in the area. Thus, the entire precipitation water of the lease area being taken inside the pits for ground water recharge in the area. A study from reputed consultant and ex-Director of CGWB is carried out for systematic Rain Water Harvesting in Gop Mines. The report with proposals is submitted to Regional Office, CGWB, Ahmedabad along with application for Ground Water abstraction. As per proposal: 1. Old mine pits are created which serves as recharge ponds. Additionally 2. Circular pits in plantation area are also being made. 3. Artificial Recharge structure at proposed Mines Office is also created. In this regard we have also requested guidance and expertise from Regional Director, C.G.W.B. Ahmedabad.

WATER RESERVOIR AT GOP



GROUND WATER RECHARGE SYSTEM AT GOP



(xv)	A final Mine Closure Plan alongwith details of Corpus Fund should be submitted to the Ministry of Environment and Forests 5 years in advance of final mine closure for approval.	The validity of Mining Lease is up to 31.03.2030. Balance life of Mine is envisaged as 11 Years @ present rate of production. So Final Closure is anticipated by 2030; accordingly, Final Mine Closure plan will be submitted by 2025 i.e. before 5 years of anticipated closure.
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	once in six months.	Note: AAQ Monitoring in the month of April & May 2020 not done due to the Lockdown guidelines of Covid-19 (restriction of movement from one place to another place)															
(iv)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) should be provided and properly maintained.	Fugitive dust emissions from all the sources are controlled by regularly water spraying on haul roads, loading sites etc. being complied.															
(v)	Adequate measures should be taken for control of noise levels in the work environment.	Regularly monitoring the noise level. Data of Noise level for the period of Apr-20 to Sep-20 is enclosed as Annexure C . Note: AAQ Monitoring in the month of April & May 2020 not done due to the Lockdown guidelines of Covid-19 (restriction of movement from one place to another place)															
(vi)	Industrial waste water, if any, should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time.	Maintenance of vehicles is being done in Tata Corgo, situated in Rajkot – Jamnagar Highway, Hapa, Jamnagar, Gujarat. All maintenance & treatment facilities like ETP are available as per the norms. A Photograph is attached for your kind reference. Hence this condition may be treated as complied. 															
(vii)	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance program of the workers is being taken periodically to observe any contractions due to exposure to dust. Initial (IME) and Periodical Medical Examination (PME) of all the work persons is done at statutory intervals. Initial / Periodical Medical Examination is being carried out for following parameters as per Form O under rule 29 B of Mines Rules 1955 for all employees General Development: Height, Weight, Eye, Ears, Respiratory System, Circulatory System, Nervous System, Locomotor System, Hydrocele Any other abnormality. Urine, Skiagram of Chest, Cardiological Assessment, Neurological Assessment, ILO-Chest Radiograph, Spirometry, Audiometry, Pathological Test (Blood Sugar – Fasting & Post Prandial) So far not a single case is detected for dust borne disease.															
(viii)	The funds earmarked For environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to this Ministry's Regional Office located at Bhopal (WZ).	The funds earmarked for environmental protection measures is kept in separate account and not diverted for other purpose. Expenditure for environmental protection measures is given below: Last 7 years Recurring yearly data is as under: <table border="1"> <thead> <tr> <th>S.No.</th><th>Year</th><th>Recurring Yearly Expenditure</th></tr> </thead> <tbody> <tr> <td>1</td><td>2013-14</td><td>375319</td></tr> <tr> <td>2</td><td>2014-15</td><td>123321</td></tr> <tr> <td>3</td><td>2015-16</td><td>131240</td></tr> <tr> <td>4</td><td>2016-17</td><td>199408</td></tr> </tbody> </table>	S.No.	Year	Recurring Yearly Expenditure	1	2013-14	375319	2	2014-15	123321	3	2015-16	131240	4	2016-17	199408
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3	2015-16	131240															
4	2016-17	199408															

		<table> <tr> <td>5</td><td>2017-18</td><td>321289</td></tr> <tr> <td>6</td><td>2018-19</td><td>224666</td></tr> <tr> <td>7</td><td>2019-20</td><td>187086</td></tr> </table> Expenditure for environmental protection measures is attached as Annexure D.	5	2017-18	321289	6	2018-19	224666	7	2019-20	187086
5	2017-18	321289									
6	2018-19	224666									
7	2019-20	187086									
ix)	The Regional Office (WZ) of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office (s) of the Regional Office by furnishing the requisite data / information/ monitoring reports.	We are submitting six monthly compliance report along with annexures to the MoEF Regional Office Bhopal and GPCB. Full co-operation is being extended to the authorities/officials by providing data/information/monitoring report etc.									
(x)	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom and suggestion / representation has been received while processing the proposal.	Copy of Environmental Clearance letter was handed over to all concerned Panchayat vide letter dated 13.12.2005									
(xi)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days and provides copies of the same to anyone requesting for the same.	SPCB displayed the copy of EC as per procedure.									
(xii)	The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in vernacular language of the locality concerned, within 7 days of the issue of clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment and Forests at http://envfor.nic.in .	We have advertised in two local newspapers dated 10.12.2005 in respect of Environmental Clearance having been accorded to our Limestone Mines, by the MoEF New Delhi. The publication has appeared in the – (1) Times of India – Ahmedabad Edition (2) Phoolchhab – Rajkot edition.									

FORM V**Environment Audit Report for period 2019-20****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. Gop - 286/p & Zinawari - 91,
Village-Gop / Zinawari,
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**
5. Date of the last Environmental
Statement submitted : **11.05.2020**

PART - B**Water & Raw Material Consumption****(i) * Water consumption M³ / day**

Process	:	0
Cooling	:	0
Domestic (Drinking)	:	20.1 KL
Dust Suppression	:	0 KL
Plantation	:	0.55 KL

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

	Name of products	Process water consumption per unit of product	
		During the previous year	During current year
	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 year	During current year
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
	Raydet	8 mtrs		0	0
		4 mtrs		0	0
		7 mtrs		0	0
7	HSD - L/ Ton			90 L/0.14	0.0 L/0.00
8	Lubricant oil - L/ Ton		0.0 L/0.00	0.0 L/0.00	
9	Grease – Kg/Ton		1 Kg/0.00	0.0 Kg/0.00	

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	Annexure Enclosed		

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 10Microgram/M ³	Annual 24 hours	60 100
4	Particulate Matter (Size less than 2.5 Microgram/M ³ or PM 10Microgram/M ³	Annual 24 hours	40 60

PART – D

Hazardous Wastes

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

	Hazardous Wastes	Total Quantity	
		During the previous year	During current year
(a)	From Process (Used Oil from Machines)	0.00 KL	0.00 KL
(b)	From pollution control facilities	-	-

PART – E

(Solid Wastes)

		Total Quantity	
		During the previous year	During current 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.

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.

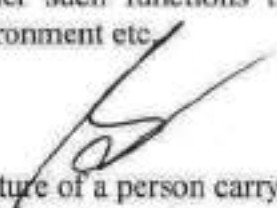
1. Dust suppressed on haul road by water sprinkling.
2. Fumes and smoke emissions from HEMM controlled by regular maintenance and timely overhaul of engines.
3. Tarpaulin covering on the transporting vehicle before leaving the mine site.
4. AAQ monitoring is done on regular basis. Contract awarded to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

PART - I

Any other particulars for improving the quality of the environment

Following are various measures taken by us: -

1. Plantation has been done in mines.
2. 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.


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

Name: Shyam Narayan Singh

Designation: Manager (Mines)

Address: Shree Digvijay Cement Co. Ltd.

P.O. Digvijaygram 361140

(Via) Jamnagar, Gujarat

MoEF&CC (GOI) Recognized Environmental
 Laboratory under the EPA-1986 (12.01.2020 to 17.03.2023)

 QCI-NABET Accredited QA
 Consultant Organization

 CPCB Recognized Environmental
 Auditor [Schedule-II]

 ISO 9001:2015
 Certified Company

 ISO 45001:2018
 Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/20/06/A-SDC003	Report Issue Date:	16/06/2020
Sample ID No.	URA/ID/A-20/06/003	Work Order No.	4500042141
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	08/06/2020	Date of Testing	10/06/2020
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Gop Mines (Near Gop Mines - 1)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK-2010 4134-DTJ-2010	01/08/2019	31/07/2020
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-2010	01/08/2019	31/07/2020

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.24	1.25	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	595	600	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	96	96	96

Environmental Conditions during testing : Temp.: 25 ± 5 °C, Relative Humidity: 40 to 50%

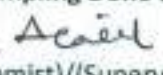
Test Parameter Results

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	90	81	63	90	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	305	223	147	261	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	24	17	29	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	20.3	18.6	12.3	19.8	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	22.9	25.2	15.9	23.5	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS - 5182, Part - 10

Note: BDL: Below Detection Limit.

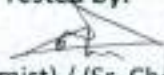
Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification - 2009, mention all parameter are within Specify Norms.

Sampling Done By:

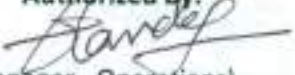

 (Chemist)/(Supervisor)
 (A. T.)

Page No.: 1 of 1

Tested By:


 (Chemist) / (Sr. Chemist)
 (M. D. P.)

Authorized By:


 (Manager - Operations)
 (P. S.)
 UERL/AIR/F-05/03

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/20/06/A-SDC004	Report Issue Date:	16/06/2020
Sample ID No.	URA/ID/A-20/06/004	Work Order No.	4500042141
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	08/06/2020	Date of Testing	10/06/2020
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Gop Mines (Loading Site)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cal. Date	Next Cal. Date
UERL/AIR/RDS/23	Respirable Dust Sampler	2343-DTB-2012 1038-DTC-2012	01/08/2019	31/07/2020
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/08/2019	31/07/2020

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.27	1.24	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	610	595	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	96	96	96

Environmental Conditions during testing : Temp.: 25 ± 5 °C, Relative Humidity: 40 to 50%

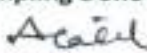
Test Parameter Results

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	92	78	62	87	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	382	269	172	308	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	36	21	15	30	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	18.4	16.2	13.9	18.8	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	21.5	22.7	18.2	23.2	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS - 5182, Part - 10

Note: BDL: Below Detection Limit.

Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification - 2009, mention all parameter are within Specify Norms.

Sampling Done By:


 (Chemist)/(Supervisor)

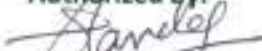
 (a ii)
 Page No.: 1 of 1

Tested By:


 (Chemist) / (Sr. Chemist)

(a-i)

Authorized By:


 (Manager - Operations)

 (2-5-7)
 UERL/AIR/F-05/03

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/20/06/A-SDC006	Report Issue Date:	16/06/2020
Sample ID No.	URA/ID/A-20/06/006	Work Order No.	4500042141
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	09/06/2020	Date of Testing	11/06/2020
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Gop Mines (Loading Site)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/23	Respirable Dust Sampler	2343-DTB-2012 1038-DTC-2012	01/08/2019	31/07/2020
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/08/2019	31/07/2020

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.26	1.25	1.29
2.	Volume of Air Sampled for PM ₁₀	m ³	604	600	619
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	96	96	96

Environmental Conditions during testing : Temp.: 25 ± 5 °C, Relative Humidity: 40 to 50%

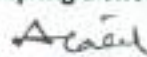
Test Parameter Results

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	98	85	71	85	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	296	252	201	250	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	29	26	20	25	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	17.2	19.8	13.8	16.9	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	20.9	24.7	17.4	21.0	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS - 5182, Part - 10

Note: BDL: Below Detection Limit.

Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification - 2009, mention all parameter are within Specify Norms.

Sampling Done By:


 (Chemist)/(Supervisor)

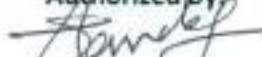
 (A. S. J.)
 Page No.: 1 of 1

Tested By:


 (Chemist) / (Sr. Chemist)

(A. S. J.)

Authorized By:


 (Manager - Operations)

 (A. S. J.)
 UERL/AIR/F-05/03

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TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	URA/20/06/A-SDC005	Report Issue Date:	16/06/2020
Sample ID No.	URA/ID/A-20/06/005	Work Order No.	4500042141
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	09/06/2020	Date of Testing	11/06/2020
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Gop Mines (Near Gop Mines - 1)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK-2010 4134-DTJ-2010	01/08/2019	31/07/2020
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-2010	01/08/2019	31/07/2020

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.22	1.24	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	585	595	610
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	96	96	96

Environmental Conditions during testing : Temp.: 25 ± 5 °C, Relative Humidity: 40 to 50%

Test Parameter Results

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	96	85	80	87	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	349	312	288	316	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	32	29	24	28	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	18.9	20.3	15.7	18.3	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	22.8	26.2	18.5	22.5	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS - 5182, Part - 10

Note: BDL: Below Detection Limit.

Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification - 2009, mention all parameter are within Specify Norms.

Sampling Done By:

Asad
 (Chemist)/(Supervisor)

(A-17)
 Page No.: 1 of 1

Tested By:

[Signature]
 (Chemist) / (Sr. Chemist)

(A-12.6)

Authorized By:

[Signature]
 (Manager - Operations)

(D-5.7)
 UERL/AIR/F-05/03

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WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/20/06/WN-SDC001	Date Of Report:	16/06/2020
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		

 ➤ Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09A	Sound Level Meter	24 DTE 2008	01/08/2019	31/07/2020

 1) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
" Temporary Discontinued – No Operation"				

 2) Pachhter (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
08/06/2020	Dozer D - 8R	89.2	83.7	74.3
08/06/2020	Hyundai - 140 (LC - 9)	89.1	83.8	73.6
08/06/2020	Tata - 200 Bracker	88.7	82.9	74.1

 3) Gop (Composite) Limestone Mines.

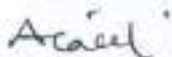
Date of Monitoring	Name of Site	Noise Level - dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
08/06/2020	Dozer D8 - N (CAT)	89.4	84.1	74.9
08/06/2020	Hyundai - 140 Excavator	88.9	83.5	73.4
08/06/2020	Tata - 200 Excavator	89.4	84.2	74.1

Note:

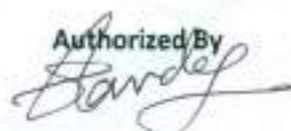
Permissible Limit:

TWA (Time Weighted Average) 8 Hrs: 90 dB (A)

Prepared By



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AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/20/06/AN-SDC001	Date Of Report:	16/06/2020
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		

➤ Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09A	Sound Level Meter	24 DTE 2008	01/08/2019	31/07/2020

1) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
08/06/2020	Pachhtar Village	62.3	48.1
09/06/2020	Pachhtar Village	60.5	47.9

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
08/06/2020	Chorbedi Village	62.7	50.3
09/06/2020	Chorbedi Village	64.5	52.7

3) Gop (Composite) Limestone Mines.

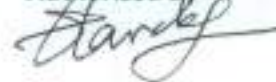
Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
09/06/2020	Gop Village	61.7	53.9
09/06/2020	Jeenawari Village	64.8	56.5
10/06/2020	Gop Village	62.4	54.2
10/06/2020	Jeenawari Village	65.2	56.7

Note:
Permissible Limit:

Day Time: 75> dB (A) Night Time: 70> dB (A)

Prepared By


Page 1 of 1

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UERL/AIR/F-18/01



Annexure D

**GOP (COMPOSITE) LIMESTONE MINES
YEARLY EXPENDITURE STATEMENT
FOR ENVIRONMENT MANAGEMENT**

For the Period of 2019-20

S. No.	WORK	Expenditure in Rs		Grand Total
		From April 19 to Sep 19	From October 19 to March 20	
1	Ambient Air & Noise Monitoring	10800	20700	31500
2	Water Sprinkling on haul roads	0	0	0
3	Purchasing of Sapling	2010	0	2010
4	Purchasing of Soil	0	0	0
5	Recurring Expenses for Security and Maintenance of Plantation	76788	76788	153576
	Total	89598	97488	187086



Signature

Shyam Narayan Singh

Manager - Mines

**SHREE DIGVIJAY
CEMENT CO. LTD.**

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Gujarat, India.
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