



REGISTERED A/D

Gop/MoEF/HYC/A/302/1561

Date-24-Nov-18

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) dt 07.10.05-in respect of Gop (Composite) Limestone Mines for the half year period April 2018 to September 2018

Sir,

As required, we are submitting herewith following information/documents pertaining subject matter for your kind perusal and records.

1. Present status of Project work progress.

This is a captive limestone mine for which Consent has been renewed vide Order No.AWH-69729 which is valid up to 20.02.2020 vide letter No.GPCB/CCA-JMN-46(3)/GPCB-ID-30566/313379 of dated 07.05.2015.

Production from Gop (Composite) Limestone Mines in the half year from April 2018 to September 2018 is **638.33 Tonnes**.

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:-

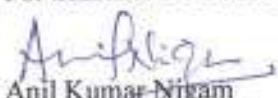
a. Environment Statement in Form V	:	Annexure A
b. Ambient Air Quality Reports	:	Annexure B
c. Noise Level	:	Annexure C
d. Environment Half Yearly Expenses Statement	:	Annexure D

We hope that you will find the above submission in order

Thanking you,

Yours faithfully,

For **SHREE DIGVIJAY CEMENT CO. LTD.**


Anil Kumar Nigam
General Manager (Mines)

Copy To:

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

SHREE DIGVIJAY CEMENT CO. LTD.

GOP (COMPOSITE) LIMESTONE MINE

SIX MONTHLY COMPLIANCE STATUS

April 2018 to September 2018

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.	Complied
(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.	Complied as directed.
(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 implemented for the safety of the monuments located in the buffer zone.	A study has been carried out by CMRI, Nagpur 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 mining.
(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. However Drilling and Blasting is not being performed. It has been stopped now.
(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 for recharging ground water in the area.
(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.
(vii)	First Aid facilities shall be provided at convenient locations. Emergency and First Aid Training shall be imparted to all the operating staff at all levels and to local affected villages.	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. 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 are 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 desilted 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	Rain water catchment areas of both Gop Mining Leases are comprised of slope of Gop Hill on North- East side and Lease area itself, so the inflow of water into Lease area is limited. This inflow of water is trapped by excavated pits on South -West arm of both the leases, which prevents outflow of silt and siltation from the Mining lease area. Due to the aforesaid factors, there is limited inflow of water into the Leased area. Area of excavated pit is so large that so far no incidence of overflow of rain water and sediment from mined out pits of both leases has been observed. Furthermore, fast percolation of rainwater – within 3 to 4 days - into strata creates space to absorb inflow of new rainwater. This percolation of water recharges ground water table of area around both leases. Few earthen bunds have been created in mined out pits to prevent spillage of rain water and siltation from mined out pits. However, if and when any additional need arises to build Check Dam/ Catch drain/ Garland drain/ Siltation pond to divert or channelize rain water/ sediments into desired mined out pit, such work will be undertaken by us.
(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 500 m distance from Gop Nath Temple and 1 KM distance from the Sun Temple.	Drilling and Blasting is not being performed. It has been stopped now.
(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.	Total 477 Nos. of samplings in 2017-18 & 205 Nos. of samplings in 2018-19 were planted within lease area. We propose to cover the remaining excavated pits within the lease area gradually with plantations.
(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.	Not applicable because of shallow depth deposit.
(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 the provisions of garland drains and 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. In this regard we have requested guidance and expertise from Regional Director, C.G.W.B. Ahmedabad.

(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.	Final Mine Closure plan will be submitted in time.
(xvi)	Consent to operate shall be obtained from the SPCB before expanding mining operations.	Consent has been obtained vide Order No. AWH-69729 valid up to 20/02/2020 vide letter No. PCI CCA-JMN-46(3)/ID-30566/313379 dated 07.05.2015
B.	General conditions	
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	No change is made in Mining Technology and scope of working.
(ii)	No change in the calendar plan including excavation, quantum of limestone and waste should be made.	Similarly no change is made in the calendar plans including excavations, quantum of Limestone and waste.
(iii)	Data on ambient air quality (RPM and SPM) should be regularly submitted once a year to the Ministry including its Regional Office (WZ) at Bhopal and the Gujarat State Pollution Control Board /Central Pollution Control Board once in six months.	Data of ambient air quality (RPM & SPM) are regularly submitted half yearly on 1st June and 1st December to MOEF including Regional Office (WR) Bhopal and GPCB, Gandhinagar. Data of Ambient air Quality Survey conducted during the half year period April 18 to Sep 18 is enclosed as Annexure -A
(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 is enclosed as Annexure B
(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.	Not Applicable.
(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. So far not a single case is detected.
(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 for the period of April 18 to Sep 18 is attached as Annexure D.

(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.	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 clearance letter was handed over to all concerned Panchayat
(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.	For compliance by GPCB, Gandhinagar.
(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 the financial year ending the 31st March 2018****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 & 17.06.86
5. Date of the last Environmental
Statement submitted : 22.11.2017

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

Process	:	0
Cooling	:	0
Domestic (Drinking)	:	20 KL
Dust Suppression	:	0 L
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 previous Financial Year 2015-16	During current Financial Year 2016-17
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 2016-17	During the current financial year 2017-18
1.	Explosives		Limestone	475	0
2	Ammonium nitrate			30000	0
3	Detonating Fuse			5625	0
4	Safety Fuse			7640	0
5	Detonator			0	0
6	Cord Relays			554	0
	Raydet	8 mtrs		74	0
		4 mtrs		443	0
		7 mtrs		400	0
7	HSD - L/ Ton			50494 L/0.49	0
8	Lubricant oil - L/ Ton			1504 L/0.014	0
9	Grease – Kg/Ton			230 Kg/0.002	0

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		
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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 10)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	During the current Financial Year
(a)	From Process (Used Oil from Machines)	60 Litres	0.0 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.

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.

Date: 26th May/2018

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



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

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC005	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/005	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	13/04/2018	Date of Testing	15/04/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Gop Mines (Near Security Office)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Calif. Date	Next Calif. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254-3490-DTG-2008	21/08/2017	20/08/2018
UERL/AIR/FPS/08	Fine Particulate Sampler	173-DTB-2010	01/09/2017	31/08/2018

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	1.27	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	595	610	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.20		
4.	Flow Rate for Gas	L/min	1.5	1.5	1.5
5.	Volume of Air Sample for Gas	L	720	720	720

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	104	68	81	84	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	273	90	158	174	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	34	18	26	26	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	22.4	13.8	19.3	18.5	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	28.1	18.5	22.8	23.1	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyzer

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:

(Signature)
(Chemist)/(Supervisor)
C.A.R.P.

Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)
(C.A.R.P.)

Authorized By:

(Signature)
(Manager - Operations)
(C.A.R.P.)
UERL/AIR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC006	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/006	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	14/04/2018	Date of Testing	16/04/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Gop Mines (Near Security Office)		

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254-3490-DTS-2008	21/08/2017	20/08/2018
UERL/AIR/FPS/08	Fine Particulate Sampler	173-DTS-2010	01/09/2017	31/08/2018

➤ **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	1.25	1.25	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	600	600	610
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.12		
4.	Flow Rate for Gas	L/min	1.5	1.5	1.5
5.	Volume of Air Sample for Gas	L	720	720	720

➤ **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	112	68	89	90	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	296	93	152	180	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	18	29	27	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	20.8	15.5	18.6	18.3	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	29.1	19.4	25.8	24.7	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyzer

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:

(Signature)
(Chemist)/(Supervisor)

C.A.R.P.
Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)
(N.E.P.)

Authorized By:

(Signature)
(Manager - Operations)

(I-3-7)
UERL/AIR/F-05/02

MAFF&CC (GOI) Recognized Environmental Laboratory Under the EPA-1986(12/01/2015 to 11/01/2020)

GCNABT Accredited QA Consultant Organization

GPCI Recognized Environmental Auditor (Schedule-II)

ISO 9001:2007 Certified Company

ISO 14001:2015 Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-SDC005	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/005	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	18/05/2018	Date of Testing	20/05/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Gop Mines (Near Security Office)		

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254-3490-DTG-2008	21/08/2017	20/08/2018
UERL/AIR/FPS/08	Fine Particulate Sampler	173-DTB-2010	01/09/2017	31/08/2018

➤ **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	1.25	1.24	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	600	595	605
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.10		
4.	Flow Rate for Gas	L/min	1.5	1.5	1.5
5.	Volume of Air Sample for Gas	L	720	720	720

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

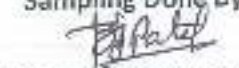
➤ **Test Parameter Results**

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	111	65	85	87	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	302	96	170	189	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	18	29	27	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	23.8	16.1	21.4	20.4	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	31.5	17.4	26.7	25.2	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyzer

Note: BDL: Below Detection Limit.

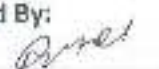
Remark: As per NAAQMS [National Ambient Air Quality Monitoring Standard] Notification - 2009, mention all parameter are within Specify Norms.

Sampling Done By:

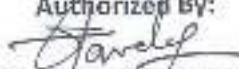

(Chemist)/(Supervisor)
(A. J. P.)

Page No.: 1 of 1

Tested By:


(Chemist) / (Sr. Chemist)
(P. C. P.)

Authorized By:


(Manager - Operations)
(J. J. J.)
UERL/AIR/P-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-SDC006	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/006	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	19/05/2018	Date of Testing	21/05/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Gop Mines (Near Security Office)		

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Call. Date	Next Call. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254- 3490-DTG-2008	21/08/2017	20/08/2018
UERL/AIR/FPS/08	Fine Particulate Sampler	173-DTB-2010	01/09/2017	31/08/2018

➤ **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	1.28	1.27	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	614	610	605
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.14		
4.	Flow Rate for Gas	L/min	1.5	1.5	1.5
5.	Volume of Air Sample for Gas	L	720	720	720

➤ **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	104	60	82	82	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	268	84	141	164	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	30	16	26	24	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	21.9	14.7	19.2	18.6	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	32.3	20.5	26.1	26.3	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyzer

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:

(Signature)
(Chemist)/(Supervisor)

(B. J. D.)
Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)
(N.C.P.)

Authorized By:

(Signature)
(Manager - Operations)

(J. J. J.)
UERL/AIR/F-05/02

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 [12.01.2015 to 11.01.2020]

QC-NABET Accredited EM Consultant Organization

CPCB Recognized Environmental Auditor (Schedule-II)

GHSA518001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/06/A-SDC005	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/ID/A-18/06/005	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	15/06/2018	Date of Testing	17/06/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Gop Mines (Near Security Office)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254-3490-DTG-2008	21/08/2017	20/08/2018
UERL/AIR/FPS/08	Fine Particulate Sampler	173-DTB-2010	01/09/2017	31/08/2018

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	1.27	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	605	610	610
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.13		
4.	Flow Rate for Gas	L/min	1.5	1.5	1.5
5.	Volume of Air Sample for Gas	L	720	720	720

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	95	53	72	73	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	274	81	135	163	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	27	14	23	21	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	20.6	12.7	16.2	16.5	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	26.5	15.4	19.1	20.3	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyzer

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:

A. Patel
(Chemist)/(Supervisor)
(C.A.A.I.)
Page No.: 1 of 1

Tested By:

Patel
(Chemist) / (Sr. Chemist)
(N.C.P.)

Authorized By:

Patel
(Manager - Operations)
(C.S.S.)
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/06/A-SDC006	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/10/A-18/06/006	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	18/06/2018	Date of Testing	18/06/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Gop Mines (Near Security Office)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254-3490-DTG-2008	21/08/2017	20/08/2018
UERL/AIR/FPS/08	Fine Particulate Sampler	173-DTB-2010	01/09/2017	31/08/2018

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	1.25	1.25	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	600	600	610
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.17		
4.	Flow Rate for Gas	L/min	1.5	1.5	1.5
5.	Volume of Air Sample for Gas	L	720	720	720

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	91	50	76	72	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	235	78	112	142	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	26	13	21	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	19.3	11.7	17.6	16.2	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	27.6	17.5	21.4	22.1	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyzer

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:

Acetel
(Chemist)/(Supervisor)
(AAT)

Page No.: 1 of 1

Tested By:

Prasad
(Chemist) / (Sr. Chemist)
(P.C.B.)

Authorized By:

Prasad
(Manager - Operations)
(C-3-22)
UERL/AIR/F-05/02

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	18/04/N-SDC001	Date Of Report:	24/04/2018
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/09C	Sound Level Meter	S983470	01/07/2017	30/06/2018

1) Gop (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
13/04/2018	Gop Village	57.2	35.0
13/04/2018	Jeenawari Village	55.4	35.0
14/04/2018	Gop Village	56.8	35.0
14/04/2018	Jeenawari Village	54.5	35.0

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
13/04/2018	Chorbedi Village	55.3	35.0
14/04/2018	Chorbedi Village	55.8	35.0

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
14/04/2018	Pachhtar Village	54.6	35.0
15/04/2018	Pachhtar Village	56.1	35.0

Note:

Permissible Limit :

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

Prepared By
Atul

Page 1 of 1

Authorized By
Harish
UERL/AIR/F-18/00

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	18/04/N-SDC001	Date Of Report:	24/04/2018
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/09C	Sound Level Meter	9983470	01/07/2017	30/06/2018

1) 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.
" Temporary Discontinued – No Operation"				

2) Charbedi (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.
13/04/2018	Dozer D9-R	89.5	84.2	75.1
13/04/2018	Tata Hitachi Ex 200	88.3	78.5	72.7
13/04/2018	Kirlosker Compressor	88.6	75.8	71.5

3) Pachhtar (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.
14/04/2018	Dozer D9-R	89.1	75.7	72.2
14/04/2018	Tata Hitachi Ex 200	88.6	75.2	71.7
14/04/2018	Kirlosker Compressor	88.5	74.9	70.9
14/04/2018	Wagon Drill WD-300	89.0	74.5	71.1

Note:

Permissible Limit :

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

Prepared By

Arul

Page 1 of 1

Authorized By

Arul

UERL/AIR/F-20/00

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	18/05/N-SDC001	Date Of Report:	28/05/2018
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/09C	Sound Level Meter	9983420	01/07/2017	30/06/2018

1) Gop (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
18/05/2018	Gop Village	56.7	35.0
18/05/2018	Jeenawari Village	57.2	35.0
19/05/2018	Gop Village	55.4	35.0
19/05/2018	Jeenawari Village	56.8	35.0

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
18/05/2018	Chorbedi Village	56.5	35.0
19/05/2018	Chorbedi Village	57.3	35.0

3) Pachhtar (Composite) Limestone Mines.

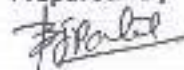
Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
19/05/2018	Pachhtar Village	55.7	35.0
20/05/2018	Pachhtar Village	56.5	35.0

Note:

Permissible Limit :

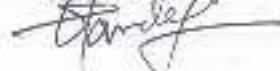
Day Time: 75> dB (A) Night Time: 70> dB (A)

Prepared By



Page 1 of 1

Authorized By



UERL/AIR/F-18/00

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	18/05/N-SDC001	Date Of Report:	28/05/2018
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/09C	Sound Level Meter	9983420	01/07/2017	30/06/2018

1) 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.
" Temporary Discontinued – No Operation "				

2) Chorbadi (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.
18/05/2018	Dozer D9-R	89.8	83.6	74.9
18/05/2018	Tata Hitachi Ex 200	88.5	78.2	73.4
18/05/2018	Kirlosker Compressor	86.2	75.4	71.2

3) Pachhtar (Composite) Limestone Mines.

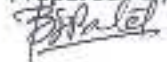
Date of Monitoring	Name of Site	Noise Level - dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
19/05/2018	Dozer D9-R	89.6	75.4	72.7
19/05/2018	Tata Hitachi Ex 200	88.5	75.3	71.6
19/05/2018	Kirlosker Compressor	88.2	73.9	71.4
19/05/2018	Wagon Drill WD - 300	89.1	74.3	71.3

Note:

Permissible Limit :

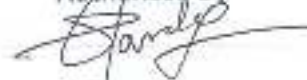
TWA (Time Weighted Average) 8 Hrs : 90 dB (A)

Prepared By



Page 1 of 1

Authorized By



UERL/AIR/F-20/00

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	18/06/N-SDC001	Date Of Report:	25/06/2018
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/09C	Sound Level Meter	9983420	01/07/2017	30/06/2018

1) Gop (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
15/06/2018	Gop Village	58.2	35.0
15/06/2018	Jeenawari Village	55.6	35.0
16/06/2018	Gop Village	56.5	35.0
16/06/2018	Jeenawari Village	57.3	35.0

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
15/06/2018	Chorbedi Village	58.6	35.0
16/06/2018	Chorbedi Village	56.8	35.0

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
16/06/2018	Pachhtar Village	57.4	35.0
17/06/2018	Pachhtar Village	58.2	35.0

Note:

Permissible Limit :

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

Prepared By

Asad

Page 1 of 1

Authorized By

Harsh

UERL/AIR/F-18/00

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	18/06/N-SDC001	Date Of Report:	25/06/2018
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/CSC	Sound Level Meter	9983420	01/07/2017	30/06/2018

1) 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.
" Temporary Discontinued – No Operation"				

2) 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.
15/06/2018	Dozer D9 – H	89.4	82.6	73.7
15/06/2018	Hyundai – 140	88.2	75.8	72.5
15/06/2018	Mini D.G. Set	88.5	74.3	71.3

3) Pachhtar (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.
15/06/2018	Dozer D8 – R	89.2	75.5	72.2
	Dozer D 355	88.9	74.6	72.5
16/06/2018	Hyundai – 130	88.9	75.1	71.3
16/06/2018	Diesel Pump	0	0	0
16/06/2018	Wagon Drill WD – 300	0	0	0

Note:

Permissible Limit :

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

Prepared By

Asad

Page 1 of 1

Authorized By

Stanley

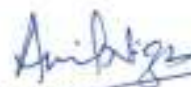
UERL/AIR/F-20/00

Date: 28/05/2018

**GOP (COMPOSITE) LIMESTONE MINES
HALF YEARLY EXPENDITURE STATEMENT
FOR ENVIRONMENT MANAGEMENT
SEP 2017 to MAR 18**

S.No.	WORK	AMOUNT IN Rs.
1	Ambient Air & Noise Monitoring	216000
2	Water Sprinkling on haul roads	0
3	Purchasing of Sapling	0
4	Purchasing of Soil	0
5	Recurring Expenses for Security and Maintenance of Plantation	100789
6	Maintenance of fencing	4500
	Total	321289

Signature



Anil Kumar Nigam
General Manager – Mines
Shree Digvijay Cement Co. Ltd.

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Fax: +91 288 234 4092

SHREE DIGVIJAY CEMENT CO. LTD.

CIN L26940GJ1944PLC000749

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