



By Email

Pac/MoEF/HYC/A/302/1889

Date: 30-Nov-19

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 (M.P.)

Subject: Submission of 6 monthly compliance report of the conditions as laid down Environmental Clearance vide letter No J/11015/49/2005-1A.II (M), dated 07.10.2005, corrigendum dated 06.02.2006 & 21.06.2010 in respect of **Pachhtar (Composite) Limestone Mines**, pertaining to **Shree Digvijay Cement Co Ltd.** for the period of **April 19 to September 19.**

Sir/Madam,

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

1. This is a captive Limestone Mine for which "Consent to Operate" has been obtained for continuing mining operations from GPCB, Gandhinagar, vide Consent Order No.AWH-71393 of dated 29.06.2015 which is valid up to 24.05.2020.
2. Point wise compliance status to various stipulations, as laid-down in Environmental Clearance letter No.J-11015/49/2005-1A.II(M) dated 07.10.2005 and 06.02.2006 & 21.06.2010 with supporting documents, is being enclosed with the following Annexure:-

Environment Statement in Form V
Ambient Air Quality Reports
Noise Level
Environment Half-Yearly Expenses Statement

: Annexure A
: Annexure B
: Annexure C
: Annexure D

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

Thanking you,

Yours faithfully,
For SHREE DIGVIJAY CEMENT CO. LTD.

Anil Kumar Nigam
Sr. General Manager (Mines)

Copy To:
The Environmental Engineer, Gujarat Pollution Control Board Paryavaran Bhavan, Sector 10A, **GANDHINAGAR** 382 010.

**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 period 2018-19****PART – A**

1. Name & Address of the Owner/
Occupier of the Industry
Operation or process : **Shree Digvijay Cement Co. Ltd.
Pachhtar (Composite) Limestone Mine
Survey No.225/P, Village- Pachhtar,
Taluka - Bhanvad, Distt. - Jamanagar
(Gujarat)**
2. Industry Category :
Primary: (STC Code) **Mining Industry**
Secondary: (SIC Code)
3. Production Capacity : **10 Lakh tones / Annum**
4. Year of Establishment : **07.11.1983**
5. Date of the last Environmental
Statement submitted : **28.05.2018**

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

Process	:	0
Cooling	:	0
Domestic (Drinking)	:	1.0 KL
Dust Suppression	:	11.63 KL
Plantation	:	0.60 KL

(*)PS Yearly consumption spread equally over 365 days of a year

Name of products	Process water consumption per unit of product	
	During previous year	During the 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 previous year	During the current year
1.	Explosives	Limestone	Nil	Nil
2	Ammonium nitrate		Nil	Nil
3	Detonating Fuse		Nil	Nil
4	Safety Fuse		Nil	Nil
5	Detonator		Nil	Nil
6	Cord Relays		Nil	Nil
7	HSD - L/ Ton		0.66	0.47
8	Lubricant oil - L/ Ton		0.02	0.01
9	Grease – Kg/Ton		0.001	0.001

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	Nil.		
(b)	Air	Annexure Enclosed		
		--	--	--
		--	--	--
		--	--	--

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

Parameter	Time Weighted Avg.	Concentration in Ambient Air	
		Industrial, residential, rural and other area	Ecologically Sensitive area (notified by Central Govt.)
Particulate Matter In Microgram/M ³	24 hours	100	100
	Annual	60	60
SO ₂ in Microgram/M ³	24 hours	80	80
	Annual	50	20
NO _x in Microgram/M ³	24 hours	80	80
	Annual	40	30

PART – D

Hazardous Wastes

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

Hazardous Wastes		Total Quantity (Kg.)	
		During previous year	During the current year
(a)	From Process (Used Oil from Machines)	0.09	0.120
(b)	From pollution control facilities	-	-

PART – E

(Solid Wastes)

		Total Quantity	
		During previous year	During the current year
(a)	From process	Nil	NIL
(b)	From pollution control Facility	Nil	Nil
(c)	i) Quantity recycled or re-utilized within the unit	Nil	Nil
	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 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 being used for reducing dust in mines.

Use of Surface Miner/ Ripper Dozer – Use of Eco-friendly Ripper Dozer Machine has been started at Pachhtar Mines which is having following advantages:-

1. Dust generated during cutting of limestone is suppressed with use of water sprinkling system at the point of generation itself.
2. Limestone so cut becomes moist hence during loading of limestone into dumpers/trucks, the dust generation is minimized.
3. Machine is provided with AC Cabin which protects the operator from dust, noise & heat.
4. Mined out floor is perfectly level and under - footing condition is extremely good. The road conditions becomes very good which ultimately reduce the diesel consumption of dumpers / trucks plying on the road. Hence the generation of noxious fumes is also reduced.

Other measures -

5. Drilling is eliminated by deployment of Ripper-Dozer.
6. Dust suppressed on haul road by water sprinkling.
7. Fumes and smoke emissions from HEMM controlled by regular maintenance and timely overhaul of engines.
8. Tarpaulin covering on the transporting vehicle before leaving the mine site.
9. AAQ monitoring is done on regular basis. Contract awarded to M/s 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:24.05.2019


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

SHREE DIGVIJAY CEMENT CO. LTD.
PACHHTAR (COMPOSITE) LIMESTONE MINE
SIX MONTHLY COMPLIANCE STATUS
April 19 to September 19

Point wise compliance status to various stipulations as laid down in the Environmental Clearance letter No. J-11015/49/2005-ia.ii (m) dated 21.06.2010:

S. NO.	CONDITIONS	COMPLIANCE STATUS
A. Specific Condition		
(i)	The project proponent shall carry out mining operations using Surface Miners in accordance with the mining scheme as approved by the Indian Bureau of Mines on 25.01.2010.	Complied. Mining operation is being carried out as per EC and the Mining Plan approved by IBM. IBM has approved a fresh Mining Plan on 13.02.2018 for the period of 2018 -19 to 2022 - 23, and all mining activity is being carried out as per approved mining plan.
(ii)	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM ₁₀), NO _x in the ambient air within the impact one shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006 -IA. II (M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.n shall also be referred in this regard for its compliance.	Complied. The Critical Parameters such as RSPM, NO _x in the ambient air within the impact zone are being monitored on monthly basis. Also note that we are not discharging water/effluents from the mines. The monitored data are being displayed at main gate of the Office as well as uploaded on the website of the company.
(iii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Provision for Construction Labours –Not Applicable
B. General Condition		
(i)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal office of Central Pollution Control Board, the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of the Ministry of Environment and forests, Bhopal, the respective zonal office of Central Pollution Control board and the State Pollution Control Board.	Six monthly reports on the status of compliance of the stipulated environment clearance Conditions including results of monitored data are being sent by E-mail to Regional office, Bhopal & State Pollution Control Board, Gandhinagar.
(ii)	The environmental statement for each financial year ending 31 st March in Form - V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Bhopal by e-mail.	Complied. Environmental statement for each financial year ending 31 st March in Form V has been submitted on 24.05.2019 to the Gujarat Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986.

Point wise compliance status to various stipulations as laid down in the Environmental Clearance letter No. J-11015/49/2005-IA.II (M) dated 07.10.2005 and 06.02.2006:

SL.	CONDITIONS	COMPLIANCE STATUS																		
A. Specific Conditions																				
(i)	Prior approval of the Chief Wildlife Warden, Government of Gujarat, shall be obtained before expansion of mining activities.	We have not undertaken any expansion of mining activities at Pachhtar Limestone Mine.																		
(ii)	The production capacity from this mine shall not exceed 1.0 MTPA with a capping of production of limestone to 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.	Production during Apr-19 to Sep-19 is 268935.52 MT from Pachhtar (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-19 to Sep-19 and its capacities are as under- <table border="1"> <thead> <tr> <th>Name of Mine</th><th>EC Capacity in Million Tons</th><th>Production in Million Tons</th></tr> </thead> <tbody> <tr> <td>Gop</td><td>0.25</td><td>0.00</td></tr> <tr> <td>Pachhtar</td><td>1.00</td><td>0.269</td></tr> <tr> <td>Chorbedi</td><td>0.90</td><td>0.154</td></tr> <tr> <td>Mokhana</td><td>0.70</td><td>0.00</td></tr> <tr> <td>Bhogat</td><td>EC not granted</td><td>0.00</td></tr> </tbody> </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	Gop	0.25	0.00	Pachhtar	1.00	0.269	Chorbedi	0.90	0.154	Mokhana	0.70	0.00	Bhogat	EC not granted	0.00
Name of Mine	EC Capacity in Million Tons	Production in Million Tons																		
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Bhogat	EC not granted	0.00																		
(ii)	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 settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains.	The Pachhtar Mines area in water scarce due to less Rainfall. Hence the rainwater is accumulated in the mines pits which in turn help to maintain ground water availability in surrounding area to meet Agricultural water demand for good crop. Therefore, Garland drains are not required. The lease area is near hills, rain water is naturally accumulated at pits of Pachhtar Mines, and hence the catch drains are not required. This inflow of water is trapped by excavated pits within the lease area, which prevents outflow of silt and siltation from the Mining lease 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 the mines has been observed. Furthermore, percolation of rainwater into																		

SL.	CONDITIONS	COMPLIANCE STATUS												
		strata creates space to absorb inflow of new rainwater. This percolation of water recharges ground water table of area around Mines. However, 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.												
(iv)	Drills should be wet operated or with dust extractors.	Drill machines are not in operation.												
(v)	Controlled blasting should be practiced only day time. The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.	Drilling & Blasting has been eliminated by the use of Ripper –Dozer and Excavator combination, an Eco-Friendly mining.												
(vi)	Plantation shall be done over the lease area including 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 as per EC condition is under progress & required area will be afforested during life of mine. We are now planting saplings as per the proposals of approved mining plan per year and made proper arrangements of after care of plants. At present plantation area is 1.093 hectares at the end of March 2019. 0.27 Hectares area covered under plantation in the year 2019-20. We have done year wise plantation in mines area as per mining plan. A table with year wise plantation details is given below: <table border="1"> <thead> <tr> <th>Year Nos. of</th><th>Nos of Saplings planted</th><th>Area (in Ha)</th></tr> </thead> <tbody> <tr> <td>Upto 2018-19</td><td>4778</td><td>1.093</td></tr> <tr> <td>2019-20</td><td>352</td><td>0.27</td></tr> <tr> <td>Total</td><td>5130</td><td>1.363</td></tr> </tbody> </table>	Year Nos. of	Nos of Saplings planted	Area (in Ha)	Upto 2018-19	4778	1.093	2019-20	352	0.27	Total	5130	1.363
Year Nos. of	Nos of Saplings planted	Area (in Ha)												
Upto 2018-19	4778	1.093												
2019-20	352	0.27												
Total	5130	1.363												
(vii)	A total of 83.16 ha of the mined out area shall be converted into a water reservoir. The higher benches of the void shall be terraced and plantation done to stabilize the slopes. Peripheral fencing shall be done along the excavated area.	Mined out area shall be developed as basin for collecting surface runoff rain water after complete removal of mineral. Peripheral fencing will be done along excavated area.												
(viii)	Ground water shall not be encountered during mining operations. Prior approval of the MOEF and CGWA shall be taken for mining below ground water.	We are not working below ground water level.												
(ix)	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. We have requested guidance and expertise from Regional Director, C.G.W.B. Ahmedabad in this regard.												
(x)	A final Mine Closure Plan along with detail of Corpus Fund should be submitted to the Ministry of Environment and Forests 5 years in advance of final mine closure for approval.	Progressive Mine Closure Plan with Financial Assurance submitted to IBM. Final Mine closure plan will be submitted before 2 years of intended closure as per MCDR 2017.												
(xi)	Consent to operate shall be obtained from the SPCB before expanding mining operations.	Consent to operate Mine has been obtained from GPCB, Gandhinagar vide Consent Order No. No.AWH-71393 of dated 29.06.2015 which is valid up to 24.05.2020												
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.	We are carrying out mining operations in accordance with EC & Mining Plan approved by IBM for the period of 2018 -19 to 2022 -23.												
(ii)	No change in the calendar plan including excavation, quantum of limestone and waste should be made.	We are carrying out mining operations in accordance with EC & Mining Plan approved by IBM for the period of 2018 -19 to 2022 -23.												

SL.	CONDITIONS	COMPLIANCE STATUS												
		Year	Mineral	Proposed Production as per approved Mining Plan in MT	Actual Production in MT									
		2019-20	Limestone	537953	268935.5									
(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 or before 1 st June and 1 st December every year to MOEF Regional Office (WR), Bhopal and GPCB, Gandhinagar. Data of Ambient Air Quality Survey conducted during the half year April 19 to Sep 2019 is enclosed. Annexure B.												
(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 regularly. Water spraying arrangement on haul roads and mining area is being practiced and properly maintained.												
(v)	Adequate measures should be taken for control of noise levels in the work environment.	An adequate measure is being taken for control of noise levels in the work environment. Regularly monitoring the noise level. Dozer-Ripper is provided with AC cabin for operator which protects the operator from heat, noise & dust. Machineries are maintained in good service condition. Data of monitoring the noise level measured and recorded during the half year period April 19 to Sep 2019 is enclosed as Annexure C.												
(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 programme 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 6 years Recurring yearly data is as under: <table><tr><td>S.No.</td><td>Year</td><td>Recurring Yearly Expenditure</td></tr><tr><td>1</td><td>2013-14</td><td>460168</td></tr><tr><td>2</td><td>2014-15</td><td>528587</td></tr></table>				S.No.	Year	Recurring Yearly Expenditure	1	2013-14	460168	2	2014-15	528587
S.No.	Year	Recurring Yearly Expenditure												
1	2013-14	460168												
2	2014-15	528587												

SL.	CONDITIONS	COMPLIANCE STATUS		
		3	2015-16	750680
		4	2016-17	356756
		5	2017-18	406410
		6	2018-19	495120
		Expenditure for environmental protection measures is being enclosed 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.	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 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 provide 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.		

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

QCI-NABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

OHSAS18001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/04/A-SDC007	Report Issue Date:	13/04/2019
Sample ID No.	URA/ID/A-19/04/007	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	06/04/2019	Date of Testing	08/04/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar 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/04	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2018	20/08/2019
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-2010	01/09/2018	31/08/2019

➤ **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	1.23	1.21	1.20
2.	Volume of Air Sampled for PM ₁₀	m ³	590	580	576
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	288	288	288

➤ **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	105	80	90	91	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	220	192	189	200	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	31	32	29	30	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	21.7	18.6	19.8	20.03	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	18.2	20.6	16.9	18.6	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 Specified Norms.

Sampling Done By:

A. Patel
(Chemist)/(Supervisor)

(A 21)
Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)

(A-21)

Authorized By:

(Signature)
(Manager - Operations)

(A-21)
UERL/AIR/F-05/03

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

QCINABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

OHSAS18001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/04/A-SDC008	Report Issue Date:	13/04/2019
Sample ID No.	URA/ID/A-19/04/008	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	06/04/2019	Date of Testing	08/04/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Mine Haul Road Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/12	Respirable Dust Sampler	1861- 4178-DTL-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	01/04/2019	31/03/2020

➤ **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	1.25	1.23
2.	Volume of Air Sampled for PM ₁₀	m ³	609	600	590
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	288	288	288

➤ **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	110	87	90	95	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	340	238	215	264	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	29	28	30	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	23.5	21.7	17.2	20.81	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	20.8	19.4	19.9	20.03	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)

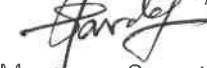
Page No.: 1 of 1

Tested By:


(Chemist) / (Sr. Chemist)

(M.D.P.)

Authorized By:


(Manager - Operations)

(S-21)
UERL/AIR/F-05/03

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/04/A-SDC009	Report Issue Date:	13/04/2019
Sample ID No.	URA/ID/A-19/04/009	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	06/04/2019	Date of Testing	08/04/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Pachtedi Village Site)		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL-2012	07/03/2019	06/03/2020

➤ 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	1.22	1.21
2.	Volume of Air Sampled for PM ₁₀	m ³	595	585	580
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	288	288	288

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

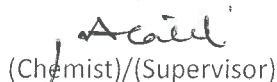
➤ Test Parameter Results

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	97	85	80	87	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	356	241	230	275	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	32	29	31	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	21.9	19.5	18.4	19.9	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	24.2	21.5	17.6	21.1	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)

Page No.: 1 of 1

Tested By:


(Chemist) (Sr. Chemist)

(~D.P.)

Authorized By:


(Manager - Operations)

(S-57)
UERL/AIR/F-05/03

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/04/A-SDC010	Report Issue Date:	13/04/2019
Sample ID No.	URA/ID/A-19/04/010	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	07/04/2019	Date of Testing	09/04/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar 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/04	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2018	20/08/2019
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-2010	01/09/2018	31/08/2019

➤ **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	1.22	1.20
2.	Volume of Air Sampled for PM ₁₀	m ³	595	585	576
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	288	288	288

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

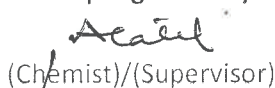
➤ **Test Parameter Results**

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	100	92	85	92	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	288	269	185	247	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	40	33	30	34	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	23.7	19.6	20.2	21.1	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	25.6	23.7	21.9	23.7	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. V. I.)
Page No.: 1 of 1

Tested By:


(Chemist) (Sr. Chemist)

(A. D. P.)

Authorized By:


(Manager - Operations)

(3-2-11)
UERL/AIR/F-05/03

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/04/A-SDC011	Report Issue Date:	13/04/2019
Sample ID No.	URA/ID/A-19/04/011	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	07/04/2019	Date of Testing	09/04/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Mine Haul Road Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/12	Respirable Dust Sampler	1861- 4178-DTL-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	01/04/2019	31/03/2020

➤ **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	1.25	1.22	1.20
2.	Volume of Air Sampled for PM ₁₀	m ³	600	585	576
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	288	288	288

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

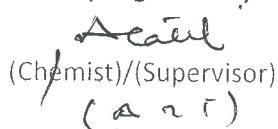
➤ **Test Parameter Results**

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	74	70	79	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	300	274	223	265	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	35	29	30	31	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	23.8	19.5	20.9	21.4	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	20.2	17.5	19.3	19.0	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.

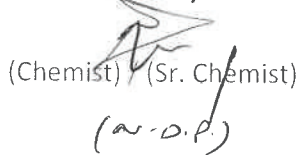
Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification – 2009, mention all parameter are within Specify Norms.

Sampling Done By:

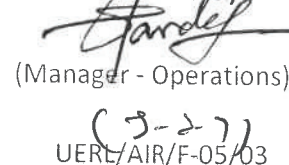

(Chemist)/(Supervisor)
(a n r)

Page No.: 1 of 1

Tested By:


(Chemist) (Sr. Chemist)
(a n r)

Authorized By:


(Manager - Operations)
(3-2-7)
UERL/AIR/F-05/03

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/04/A-SDC012	Report Issue Date:	13/04/2019
Sample ID No.	URA/ID/A-19/04/012	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	07/04/2019	Date of Testing	09/04/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Pachtedi Village Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL-2012	07/03/2019	06/03/2020

➤ **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	1.24	1.22
2.	Volume of Air Sampled for PM ₁₀	m ³	604	595	585
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	288	288	288

➤ **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	118	90	82	96	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	324	268	232	274	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	30	28	30	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	23.3	19.6	20.8	18.9	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	24.1	23.6	17.5	21.2	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:

(Signature)
(Chemist)/(Supervisor)

(A.T.)
Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)

(N.O.P.)

Authorized By:

(Signature)
(Manager - Operations)

(1-27)
UERL/AIR/F-05/03

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**TEST REPORT
(AMBIENT AIR MONITORING)**

Test Report No.	URA/19/05/A-SDC007	Report Issue Date:	31/05/2019
Sample ID No.	URA/ID/A-19/05/0007	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	25/05/2019	Date of Testing	27/05/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar 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/04	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2018	20/08/2019
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-2010	01/09/2018	31/08/2019

➤ **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	1.25	1.23
2.	Volume of Air Sampled for PM ₁₀	m ³	609	600	590
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	288	288	288

➤ **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	110	84	90	94	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	258	167	147	190	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	37	33	31	33	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	24.2	21.8	21.5	22.5	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	20.1	19.6	18.6	19.4	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)

(CAR-5)

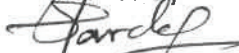
Page No.: 1 of 1

Tested By:


(Chemist) (Sr. Chemist)

(CAR-01)

Authorized By:


(Manager - Operations)

(J-S-7)
UERL/AIR/F-05/03

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/05/A-SDC008	Report Issue Date:	31/05/2019
Sample ID No.	URA/ID/A-19/05/008	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	25/05/2019	Date of Testing	27/05/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Mine Haul Road Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/12	Respirable Dust Sampler	1861- 4178-DTL-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	01/04/2019	31/03/2020

➤ **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	1.25	1.23	1.20
2.	Volume of Air Sampled for PM ₁₀	m ³	600	590	576
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	288	288	288

➤ **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	100	98	93	97	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	357	288	256	300	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	38	34	30	34	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	25.6	23.1	20.5	23.6	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	19.6	18.3	17.4	18.4	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:

(Signature)
(Chemist)/(Supervisor)

Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) (Sr. Chemist)

Authorized By:

(Signature)
(Manager - Operations)

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

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ISO 9001:2015
Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/05/A-SDC009	Report Issue Date:	31/05/2019
Sample ID No.	URA/ID/A-19/05/009	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	25/05/2019	Date of Testing	27/05/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Pachtedi Village Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL-2012	07/03/2019	06/03/2020

➤ **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	1.29	1.27	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	619	609	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	288	288	288

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

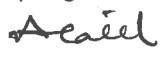
➤ **Test Parameter Results**

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	88	85	88	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	423	388	351	387	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	30	28	27	28	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	24.5	22.1	20.9	22.5	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	21.7	19.4	18.3	19.8	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)

Page No.: 1 of 1

Tested By:


(Chemist) / (Sr. Chemist)

Authorized By:


(Manager - Operations)

(3-57)
UERL/AIR/F-05/03

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TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	URA/19/05/A-SDC010	Report Issue Date:	31/05/2019
Sample ID No.	URA/ID/A-19/05/010	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	26/05/2019	Date of Testing	28/05/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar 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/04	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2018	20/08/2019
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-2010	01/09/2018	31/08/2019

➤ 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	1.21
2.	Volume of Air Sampled for PM ₁₀	m ³	600	595	580
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	288	288	288

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

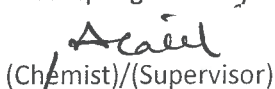
➤ Test Parameter Results

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	115	94	90	99	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	317	295	212	247	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	38	35	34	35	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	25.2	22.4	21.9	23.5	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	26.2	24.8	22.6	24.5	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.

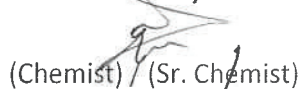
Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification – 2009, mention all parameter are within Specify Norms.

Sampling Done By:


(Chemist)/(Supervisor)

(A. A. I.)
Page No.: 1 of 1

Tested By:


(Chemist) / (Sr. Chemist)

(N. D. P.)

Authorized By:


(Manager - Operations)

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

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/05/A-SDC011	Report Issue Date:	31/05/2019
Sample ID No.	URA/ID/A-19/05/011	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	26/05/2019	Date of Testing	28/05/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Mine Haul Road Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/12	Respirable Dust Sampler	1861- 4178-DTL-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	01/04/2019	31/03/2020

➤ **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	1.23	1.22
2.	Volume of Air Sampled for PM ₁₀	m ³	595	590	585
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	288	288	288

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

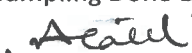
➤ **Test Parameter Results**

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	89	86	91	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	278	223	191	230	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	32	30	31	31	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	22.7	20.3	18.3	20.3	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	19.5	19.0	17.5	18.6	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)

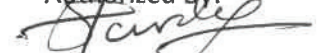
(C-11)
Page No.: 1 of 1

Tested By:


(Chemist) / (Sr. Chemist)

(C-11)

Authorized By:


(Manager - Operations)

(C-5-1)
UERL/AIR/F-05/03

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TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	URA/19/05/A-SDC012	Report Issue Date:	31/05/2019
Sample ID No.	URA/ID/A-19/05/012	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	26/05/2019	Date of Testing	28/05/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Pachtedi Village Site)		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL-2012	07/03/2019	06/03/2020

➤ 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	1.25	1.24
2.	Volume of Air Sampled for PM ₁₀	m ³	609	600	595
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	288	288	288

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

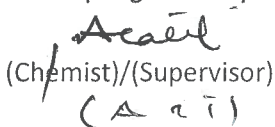
➤ Test Parameter Results

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	107	87	83	92	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	300	244	220	254	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	36	32	30	32	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	21.5	20.5	19.5	20.5	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	19.6	18.4	17.9	18.6	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.

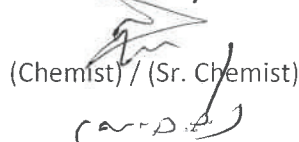
Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification – 2009, mention all parameter are within Specify Norms.

Sampling Done By:

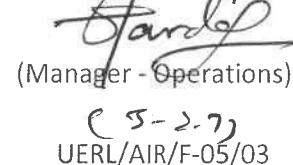

 (Chemist)/(Supervisor)
 (A. A. T.)

Page No.: 1 of 1

Tested By:


 (Chemist) / (Sr. Chemist)
 (A. A. T.)

Authorized By:


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

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/06/A-SDC007	Report Issue Date:	29/06/2019
Sample ID No.	URA/ID/A-19/06/0007	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	21/06/2019	Date of Testing	24/06/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar 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/04	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2018	20/08/2019
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-2010	01/09/2018	31/08/2019

➤ **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	1.29	1.27	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	609	609	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	288	288	288

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

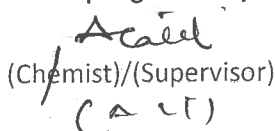
➤ **Test Parameter Results**

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	88	78	88	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	220	145	132	165	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	32	29	30	30	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	24.3	18.9	20.6	21.2	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	29.5	21.1	18.8	23.1	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.

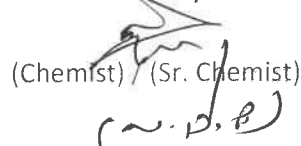
Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification – 2009, mention all parameter are within Specify Norms.

Sampling Done By:

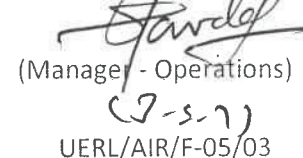

(Chemist)/(Supervisor)
(C.A.T.)

Page No.: 1 of 1

Tested By:


(Chemist) / (Sr. Chemist)
(~.D.B.)

Authorized By:


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

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TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	URA/19/06/A-SDC008	Report Issue Date:	29/06/2019
Sample ID No.	URA/ID/A-19/06/008	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	21/06/2019	Date of Testing	24/06/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Mine Haul Road Site)		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/12	Respirable Dust Sampler	1861- 4178-DTL-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	01/04/2019	31/03/2020

➤ 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	1.30	1.27	1.24
2.	Volume of Air Sampled for PM ₁₀	m ³	624	609	595
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	288	288	288

➤ 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	108	100	87	97	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	298	247	213	300	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	34	30	32	32	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	21.8	19.8	24.5	22.0	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	31.4	25.9	19.6	25.6	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:

(Signature)
(Chemist)/(Supervisor)
(C.R.T.)

Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) (Sr. Chemist)
(M.D.B.)

Authorized By:

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

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TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	URA/19/06/A-SDC009	Report Issue Date:	29/06/2019
Sample ID No.	URA/ID/A-19/06/009	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	21/06/2019	Date of Testing	24/06/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Pachtedi Village Site)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL-2012	07/03/2019	06/03/2020

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	1.23	1.22	1.20
2.	Volume of Air Sampled for PM ₁₀	m ³	590	585	576
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	288	288	288

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	95	87	91	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	350	298	263	303	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	31	32	29	30	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	25.6	18.0	21.5	21.7	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	28.7	22.1	19.1	23.3	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)

Page No.: 1 of 1

Tested By:

(Chemist) / (Sr. Chemist)

(~ D. B.)

Authorized By:

(Manager - Operations)

UERL/AIR/F-05/03

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TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	URA/19/06/A-SDC010	Report Issue Date:	29/06/2019
Sample ID No.	URA/ID/A-19/06/010	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	22/06/2019	Date of Testing	24/06/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar 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/04	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2018	20/08/2019
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-2010	01/09/2018	31/08/2019

➤ 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	1.32	1.28	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	633	614	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	288	288	288

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

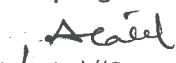
➤ Test Parameter Results

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	105	96	92	97	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	349	303	274	308	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	34	32	28	31	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	23.5	19.6	22.6	21.9	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	30.8	23.7	18.5	24.3	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.

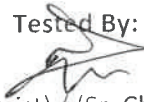
Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification – 2009, mention all parameter are within Specify Norms.

Sampling Done By:

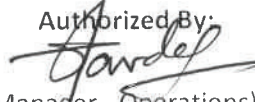

(Chemist)/(Supervisor)
(A.T.)

Page No.: 1 of 1

Tested By:


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

Authorized By:


(Manager - Operations)
C.D.S.V.
UERL/AIR/F-05/03

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/06/A-SDC011	Report Issue Date:	29/06/2019
Sample ID No.	URA/ID/A-19/06/011	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	22/06/2019	Date of Testing	24/06/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Mine Haul Road Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/12	Respirable Dust Sampler	1861- 4178-DTL-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	01/04/2019	31/03/2020

➤ **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	1.28	1.26	1.23
2.	Volume of Air Sampled for PM ₁₀	m ³	614	604	590
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	288	288	288

➤ **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	114	95	88	99	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	336	267	225	276	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	34	33	29	32	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	19.5	16.8	21.5	19.2	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	28.7	19.2	18.8	22.2	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:

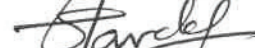

(Chemist)/(Supervisor)
(a r i)

Page No.: 1 of 1

Tested By:


(Chemist) (Sr. Chemist)
(a r i, B)

Authorized By:


(Manager - Operations)
(a r i)
UERL/AIR/F-05/03

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/06/A-SDC012	Report Issue Date:	29/06/2019
Sample ID No.	URA/ID/A-19/06/012	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	22/06/2019	Date of Testing	24/06/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Pachtedi Village Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2018	24/10/2019
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL-2012	07/03/2019	06/03/2020

➤ **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	1.25	1.24
2.	Volume of Air Sampled for PM ₁₀	m ³	609	600	595
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	288	288	288

➤ **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	97	94	86	92	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	258	207	187	217	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	30	26	29	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	24.2	15.9	20.4	20.1	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	32.2	23.3	17.7	24.4	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:

(Signature)
(Chemist)/(Supervisor)

(A.R.T.)
Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)

(A.R.T.)

Authorized By:

(Signature)
(Manager - Operations)

(C.S.)
UERL/AIR/F-05/03

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AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/04/AN-SDC001	Date Of Report:	13/04/2019
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	01/07/2018	30/06/2019

1) Gop (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
05/04/2019	Gop Village	65.2	35.0
05/04/2019	Jeenawari Village	66.8	35.0
06/04/2019	Gop Village	67.5	35.0
06/04/2019	Jeenawari Village	62.1	35.0

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
06/04/2019	Chorbedi Village	68.3	35.0
07/04/2019	Chorbedi Village	65.2	35.0

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
06/04/2019	Pachhtar Village	65.7	35.0
07/04/2019	Pachhtar Village	63.2	35.0

Note:

Permissible Limit :

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

Prepared By

A. Patel

Page 1 of 1

Authorized By

Hardy

UERL/AIR/F-18/01

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WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/04/WN-SDC001	Date Of Report:	13/04/2019
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	01/07/2018	30/06/2019

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.
05/04/2019	Dozer D9 – N	87.2	81.5	75.1
05/04/2019	Hyundai – 140	89.5	83.2	73.8
05/04/2019	Mini D.G. Set	88.4	81.9	74.4

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.
06/04/2019	Dozer D8 – R	89.3	82.3	74.6
	Dozer D 355	88.5	81.7	74.2
06/04/2019	Hyundai – 130	89.1	81.2	74.9

Note:

Permissible Limit :

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

Prepared By

Seetal

Page 1 of 1

Authorized By

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UERL/AIR/F-20/01

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/05/AN-SDC001	Date Of Report:	31/05/2019
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	01/07/2018	30/06/2019

1) **Gop (Composite) Limestone Mines.**

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
24/05/2019	Gop Village	68.3	38.6
24/05/2019	Jeenawari Village	63.8	35.8
25/05/2019	Gop Village	65.2	35.0
25/05/2019	Jeenawari Village	66.5	42.3

2) **Chorbedi (Composite) Limestone Mines.**

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
25/05/2019	Chorbedi Village	66.4	37.2
26/05/2019	Chorbedi Village	67.9	45.2

3) **Pachhtar (Composite) Limestone Mines.**

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
25/05/2019	Pachhtar Village	63.5	40.7
26/05/2019	Pachhtar Village	67.4	48.5

Note:

Permissible Limit :

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

Prepared By

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Page 1 of 1

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WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/05/WN-SDC001	Date Of Report:	30/05/2019
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	01/07/2018	30/06/2019

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.
24/05/2019	Dozer D8 - N (CAT)	88.3	83.4	73.8
24/05/2019	Hyundai - 140 (LC - 9)	89.1	82.8	74.6
24/05/2019	D.G. Set (ASKA - NLM - 9)	88.8	82.5	74.1

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.
25/05/2019	Dozer D8 - R	89.5	83.1	75.2
	Dozer D 355	88.6	82.7	73.7
25/05/2019	Hyundai - 140 Excavator	88.3	83.5	73.5
25/05/2019	Tata - 200 Excavator	89.2	82.8	74.8
25/05/2019	Tata - 200 Bracker	89.1	83.3	74.5

Note:

Permissible Limit :

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

Prepared By

Seal

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AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/06/AN-SDC001	Date Of Report:	29/06/2019
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	01/07/2018	30/06/2019

1) Gop (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
20/06/2019	Gop Village	66.2	40.2
20/06/2019	Jeenawari Village	65.7	38.5
21/06/2019	Gop Village	68.5	36.5
21/06/2019	Jeenawari Village	64.2	39.7

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
21/06/2019	Chorbedi Village	68.6	43.2
22/06/2019	Chorbedi Village	65.3	41.5

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
21/06/2019	Pachhtar Village	66.5	43.7
22/06/2019	Pachhtar Village	65.4	45.1

Note:

Permissible Limit :

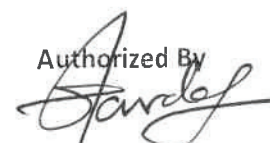
Day Time: 75> dB (A) Night Time: 70> dB (A)

Prepared By



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Authorized By



UERL/AIR/F-18/01

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/06/WN-SDC001	Date Of Report:	29/06/2019
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	01/07/2018	30/06/2019

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.
20/06/2019	Dozer D8 - N (CAT)	88.7	83.9	74.1
20/06/2019	Hyundai - 140 (LC - 9)	89.5	83.4	74.3
20/06/2019	D.G. Set (ASKA - NLM - 9)	89.2	83.0	74.5

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.
21/06/2019	Dozer D8 - R	89.2	83.7	74.8
	Dozer D 355	89.0	83.2	74.2
21/06/2019	Hyundai - 140 Excavator	88.8	83.1	73.2
21/06/2019	Tata - 200 Excavator	89.6	83.6	74.4
21/06/2019	Tata - 200 Bracker	89.3	83.9	74.8

Note:

Permissible Limit :

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

Prepared By

A. Patel

Page 1 of 1

Authorized By

[Signature]

UERL/AIR/F-20/01



Annexure D

PACHHTAR (COMPOSITE) LIMESTONE MINES
HALF-YEARLY EXPENDITURE STATEMENT
FOR ENVIRONMENT MANAGEMENT
For the period of April -19 to Sep -19

S.No.	WORK	AMOUNT in Rs.
1	Ambient Air & Noise Monitoring	32400
2	Water Sprinkling on haul roads	81900
3	Purchasing of Sapling	3520
4	Purchasing of Soil	4000
5	Recurring Expenses for Security and Maintenance of Plantation	64050
	Total	185870

Signature 
Anil Kumar Nigam
Sr. General Manager - Mines

**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