

REGISTERED A/D

Pac/MoEF/HYC/A/302/1382

Date: 28.05.2018

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 compliance report of the conditions as laid down in the Environmental Clearance vide letter no.J-11015/49/2005-IA.II(M) dated 21.06.2010 & 07.10.2005 and corrigendum dated 06.02.2006 in respect of Pachhatar (Composite) Limestone Mine for the half year period Sept 2017 to March 2018.

Sir,

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

1. Present status of Project work in progress.

This is a regular operating 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-IA.II(M) dated 07.10.2005 and 06.02.2006 & 21.06.2010 with supporting documents, is being enclosed with the following Annexure:-

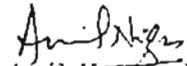
Environment Statement in Form V	: Annexure A
Ambient Air Quality Reports	: Annexure B
Noise Level	: Annexure C
Environment Yearly Expenses Statement	: Annexure D

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
General Manager (Mines)

Copy To:

1. The Additional Director, MOEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, NEW DELHI 110003.
2. The Environmental Engineer, Gujarat Pollution Control Board Paryavaran Bhavan, Sector 10A, GANDHINAGAR 382 010.

Phone + 91 288 234 4172 / 75

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info.india@vcmimentos.com

Shree Digvijay Cement Co. Ltd.

PIN: 369405/1944P/1000749

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votorantimcimentos.co.in



SHREE DIGVIJAY CEMENT CO. LTD.
PACHHTAR (COMPOSITE) LIMESTONE MINE

SIX MONTHLY COMPLIANCE STATUS September 2017 to March 2018

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.	We are carrying out mining operations in accordance with the mining scheme as approved by Indian Bureau of Mines on 25.01.2010 and further fresh scheme of Mining approved on 26.07.2013. A Mining Plan is approved by IBM for the period of 2018 -19 to 2022 -23.
(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.	The critical Parameters such as RSPM, NO _x in the Ambient Air in the impact zone are being monitored periodically on monthly basis. Also note that we are not discharging water/effluents from the Mines.
(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 both in hard copies as well as soft copy 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.	Environmental statement for financial year ending 31st March 2018 in Form V is enclosed for your ready reference in <u>Annexure 'A'</u> .

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.	The production capacity from this Mine is 1.0 MTPA. Production in previous years was well within the prescribed limit & production for half year from September 2017 to March 2018 from Pachhtar Mines is 120444.30 MT
(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.	No sediments flow from the mines.
(iv)	Drills should be wet operated or with dust extractors.	Mining is being done by Ripper-dozer. Drills are not in use.
(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.	We are not conducting drilling & Blasting operation.
(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.	210 Numbers of samplings were planted during the year 2017-18 in consultation with local forest dept. Barbed fencing provided for protecting of plants. We propose to cover the lease area gradually with plantations. Cumulative plantation – 4573 Nos.
(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 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.
(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.

SL.	CONDITIONS	COMPLIANCE STATUS
(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 & the mining scheme as approved by Indian Bureau of Mines on 25.01.2010. and further fresh scheme of Mining approved on 26.07.2013, valid up to 31.03.2018. A Mining Plan is 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 & the mining scheme as approved by Indian Bureau of Mines on 25.01.2010. and further fresh scheme of Mining approved on 26.07.2013, valid up to 31.03.2018. A Mining Plan is approved by IBM for the period of 2018 -19 to 2022 -23.
(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 September 2017 to March 2018 is enclosed. <u>Annexure B.</u>
(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 September 2017 to March 2018 is enclosed as <u>Annexure C.</u>
(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. 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. Year wise expenditure are reported to MOEF Regional Office (WR) at Bhopal and It is being enclosed as <u>Annexure D.</u>
(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 /	Project authorities are always extending full co-operation to the authorities/officials visiting the Mines site for data/information/monitoring report etc

SL.	CONDITIONS	COMPLIANCE STATUS
	information/ monitoring reports.	
(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.	For compliance by Gujarat Pollution Control Board, 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.
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 : 22.11.2017

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

Process	:	0
Cooling	:	0
Domestic (Drinking)	:	1.0 KL
Dust Suppression	:	11.09 KL
Plantation	:	0.56 KL

(*)PS 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	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		70134 L / 0.315	0.66
8	Lubricant oil - L/ Ton		995 L / 0.004	0.02
9	Grease – Kg/Ton		124 Kgs / 5.56	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	Enclosed Annexure-1		
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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 Annual	100 60	100 60
SO ₂ in Microgram/M ³	24 hours Annual	80 50	80 20
NO _x in Microgram/M ³	24 hours Annual	80 40	80 30

PART – D

Hazardous Wastes

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

Hazardous Wastes		Total Quantity (Kg.)	
		During the previous Financial Year (2016-17)	During the current Financial Year (2017-18)
(a)	From Process (Used Oil from Machines)	90 L	90 L
(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-utilized 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 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 Surface Miner /Ripper Dozer Machine has been started at Pachhar 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

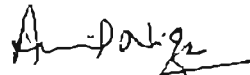
Any other particulars for improving the quality of the environment

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: 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/17/10/A-SDC012	Report Issue Date:	04/11/2017
Sample ID No.	UERL/AIR/ID/A-17/10/012	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	30/10/2017	Date of Testing	01/11/2017
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/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/09/2016	31/08/2017

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.26	1.25	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	605	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	60	45	52	52	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	150	63	75	96	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	17	10	15	14	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	9.2	10.7	12.8	10.9	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	17.5	13.6	14.5	15.2	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:

Arav
(Chemist)/(Supervisor)

(3-2-1)

Page No.: 1 of 1

Tested By:

Dr. Patel
(Chemist)/(Sr. Chemist)

(3-2-1)

Authorized By:

Sanjay
(Manager - Operations)

(3-2-1)
UERL/AIR/F-09/02

[illegible]

(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/10/A-SDC011	Report Issue Date:	04/11/2017
Sample ID No.	UERL/AIR/ID/A-17/10/011	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Janinagar (Gujarat)		
Dates of Sampling	30/10/2017	Date of Testing	01/11/2017
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	Call. Date	Next Call. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2016	24/10/2017
UERL/AIR/FP5/07	Fine Particulate Sampler	271-DTE-2010	01/09/2016	31/08/2017

➤ 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 _{2.5}	m ³ /min	1.26	1.25	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	605	600	610
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.: $25 \pm 5^\circ\text{C}$, 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	126	60	75	87	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	245	112	139	165	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	25	18	20	21	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	15.2	18.1	15.4	16.2	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	20.7	19.3	21.2	20.4	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 parameters are within Specify Norms.

Sampling Done By:

Acid
(Chemist)/(Supervisor)
(A 2-7)

Page No.: 1 of 1

Tested By:

Donald
(Chemist) + (Sr. Chemist)
(B.I.P.)

Authorized By:

(Manager - Operations)
(J-8.1)
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/10/A-SDC010	Report Issue Date:	04/11/2017
Sample ID No.	UERL/AIR/ID/A-17/10/010	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	30/10/2017	Date of Testing	01/11/2017
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	Call. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254- 3490-DTG-2008	21/08/2016	20/08/2017
UERL/AIR/FPS/08	Fine Particulate Sampler	173-DTB-2010	01/09/2016	31/08/2017

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	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	600	605	600
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	136	62	84	94	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	310	114	125	183	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	25	17	20	21	60	CPCB Manual Volume I
4.	Sulphur Dioxide	µg/m ³	12.6	14.3	15.5	14.1	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	21.7	18.6	20.5	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:

Arvind
(Chemist)/(Supervisor)
CA 2.1

Page No.: 1 of 1

Tested By:

B. Patel
(Chemist)/(Sr. Chemist)
CB-2-P

Authorized By:

Stanley
(Manager - Operations)
CS-21
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/10/A-SDC009	Report Issue Date:	04/11/2017
Sample ID No.	UERL/AIR/ID/A-17/10/009	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	29/10/2017	Date of Testing	31/10/2017
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/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/09/2016	31/08/2017

> 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	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	610	605	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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	54	40	48	47	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	167	79	80	109	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	15	12	14	14	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	12.5	15.5	13.8	13.9	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	19.6	14.7	15.2	16.5	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. A. T.
(Chemist)/(Supervisor)
(A. A. T.)

Page No.: 1 of 1

Tested By:

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

Authorized By:

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

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/10/A-SDC008	Report Issue Date:	04/11/2017
Sample ID No.	UERL/AIR/ID/A-17/10/008	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	29/10/2017	Date of Testing	31/10/2017
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/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2016	24/10/2017
UERL/AIR/FP5/07	Fine Particulate Sampler	271-DTE-2010	01/09/2016	31/08/2017

➤ 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	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	600	600	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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	108	67	84	86	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	255	103	124	191	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	27	15	18	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	14.7	17.1	13.2	15.0	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	21.3	20.7	18.6	20.2	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:

Acad
(Chemist)/(Supervisor)
(A a - T)

Page No.: 1 of 1

Tested By:

Ch Patel
(Chemist)/(Sr. Chemist)
(A B - D - P)

Authorized By:

Shankar
(Manager - Operations)
(A - 2 - 1)

UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/10/A-SDC007	Report Issue Date:	04/11/2017
Sample ID No.	UERL/AIR/ID/A-17/10/007	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	29/10/2017	Date of Testing	31/10/2017
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	Call. Date	Next Call. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254- 3490-DTG-2008	21/08/2016	20/08/2017
UERL/AIR/FP5/08	Fine Particulate Sampler	173-DTB-2010	01/09/2016	31/08/2017

➤ **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	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	600	605	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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.: $25 \pm 5^\circ\text{C}$, 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	145	70	80	98	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	340	105	137	194	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	22	15	18	19	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	14.6	15.9	16.1	15.5	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	24.8	20.7	21.5	22.3	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 parameters are within Specify Norms.

Sampling Done By:

Scot
(Chemist)/(Supervisor)
(a a -)

Page No.: 1 of 1

Tested By:

S. Patel
(Chemist) / (Sr. Chemist)
C.B. J. P.)

Authorized By:

(Manager - Operations)
(3-27)
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/11/A-SDC012	Report Issue Date	10/11/2017
Sample ID No.	UERL/AIR/ID/A-17/11/012	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	19/11/2017	Date of Testing	12/11/2017
Sampling Procedure	CPCB Guideline		
Location of Sampling / Monitoring	Pachtar 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/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-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	1.25	1.25
2	Volume of Air Sampled for PM ₁₀	m ³	605	600	600
3	Volume of Air Sampled for PM ₁₀ (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	60	88	53	50	100	IS - 5182, Part - 23
2	SPM	µg/m ³	153	52	75	93	—	IS - 5182, Part - 23
3	PM _{2.5}	µg/m ³	15	10	13	13	60	CPCB Manual Volume 1
4	Sulphur Dioxide	µg/m ³	9.2	10.6	11.7	10.5	80	IS - 5182, Part - 2
5	Nitrogen Dioxide	µg/m ³	17.5	14.3	15.2	15.7	80	IS - 5182, Part - 6
6	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyser

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. A. T.)

Page No. 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

(A. A. T.)
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/11/A-SDC011	Report Issue Date:	30/11/2017
Sample ID No.	UERL/AIR/ID/A-17/11/011	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	19/11/2017	Date of Testing	22/11/2017
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 Call. Date
UERI/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERI/AIR/FPS/07	Fine Particulate Sampler	271-DTE-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	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	600	600	605
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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.: $25 \pm 5^\circ\text{C}$. 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	80	96	97	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	244	104	128	159	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	21	15	17	18	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	12.3	14.5	16.2	14.3	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	18.6	17.5	19.5	18.5	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 parameters are within Specify Norms.

Sampling Done By:

Acad
(Chemist)/(Supervisor)
(2-7)

Page No.: 1 of 1

Tested By:

(Chemist) (Sr. Chemist)
(B.D.P.)

Authorized By:

(Manager - Operations)
C-2)
UERL/ATR/F-05/02

UERL/ATR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/11/A-SDC010	Report Issue Date:	30/11/2017
Sample ID No.	UERL/AIR/ID/A-17/11/010	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	19/11/2017	Date of Testing	22/11/2017
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/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	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	600	600	600
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	135	71	86	97	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	285	104	155	181	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	22	13	18	18	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	14.1	15.4	13.8	14.4	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	20.7	17.4	18.5	18.9	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)
(A-2-1)

Page No.: 1 of 1

Tested By:

B. J. Patel
(Chemist) / (Sr. Chemist)
(B.J.1)

Authorized By:

S. Patel
(Manager - Operations)
(S-2-1)
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/11/A-SDC009	Report Issue Date:	30/11/2017
Sample ID No.	UERL/AIR/ID/A-17/11/009	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	18/11/2017	Date of Testing	21/11/2017
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/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-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	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	600	605	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.18		
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.: $25 \pm 5^\circ\text{C}$, 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	73	45	54	57	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	180	65	95	113	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	14	10	12	12	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	9.5	11.3	12.5	11.1	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	21.4	15.3	17.4	18.0	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 parameters are within Specify Norms.

Sampling Done By:

Acetel
(Chemist)/(Supervisor)
(A n - T)

Page No.: 1 of 1

Tested By:

(Chemist) / (Sr. Chemist)

(A, I, A)

Authorized By:

Handley
(Manager - Operations)

UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/11/A-SDC008	Report Issue Date:	30/11/2017
Sample ID No.	UERL/AIR/ID/A-17/11/008	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	18/11/2017	Date of Testing	21/11/2017
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	Call. Date	Next Call. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-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	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	600	600	600
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.: $25 \pm 5^\circ\text{C}$, 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	120	74	92	95	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	260	112	136	169	–	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	23	13	18	18	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	11.5	13.8	12.5	12.6	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	20.7	18.6	19.7	19.7	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 parameters are within Specify Norms.

Sampling Done By:

Acid
(Chemist)/(Supervisor)
(a a - 1)

Page No.: 1 of 1

Tested By:

(Chemist) / (Sr. Chemist)

(B. 2. A)

Authorized By

(Manager - Operations)

CT-222
UERL/AIR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/11/A-SDC007	Report Issue Date:	30/11/2017
Sample ID No.	UERL/AIR/ID/A-17/11/007	Work Order No.	4500033928
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	18/11/2017	Date of Testing	21/11/2017
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	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	1.26	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	605	605	600
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	142	70	82	98	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	320	95	160	192	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	24	16	20	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	12.8	16.5	14.7	14.7	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	21.6	19.3	22.5	21.1	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)
(A. N. T.)

Page No.: 1 of 1

Tested By:

(Signature)
(Chemist)/(Sr. Chemist)
(B. J. P.)

Authorized By:

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

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UURL/17/12/A-SDCD12	Report Issue Date	30-12-2017
Sample ID No.	UURL/AIR/ID/A-17/12/012	Work Order No.	4500035960
Name & Add. of Customer	M/L Shree Digvijay Cement Co. Ltd Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	24/12/2017	Date of Testing	27/12/2017
Sampling Procedure	CPCB Guideline		
Location of Sampling / Monitoring	Pachhiar Mines (Pachhiar Village Site)		

Details of Master Instrument Used for Monitoring

Instrument Id No	Instrument Name	Serial Number	Cal. Date	Next Cal. Date
UURL/AIR/PDS/23	Respirable Dust Sampler	2483 DIB, 1038-DTC-2012	01/04/2017	31/03/2018
UURL/AIR/PS/D6	Fine Particulate Sampler	270 DTE-2020	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	1.27	1.26	1.26
2	Volume of Air Sampled for PM ₁₀	m ³	610	605	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 Sampled 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	73	44	52	56	100	IS - 5182, Part - 23
2	SPM	µg/m ³	150	48	81	93	--	IS - 5182, Part - 23
3	PM _{2.5}	µg/m ³	15	10	12	12	60	CPCB Manual Volume 1
4	Sulphur Dioxide	µg/m ³	8.5	11.4	10.7	10.2	80	IS - 5182, Part - 2
5	Nitrogen Dioxide	µg/m ³	18.6	12.7	14.5	15.4	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:

Arvind
(Chemist)/(Supervisor)
(A-3)

Page No. 1 of 1

Tested By:

Prakash
(Chemist)/(Sr. Chemist)
(B-3 P)

Authorized By:

Sanjay
(Manager)/(Operations)

(S-3, S-1)
UURL/AIR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/12/A-SDC011	Report Issue Date:	30/12/2017
Sample ID No.	UERL/AIR/ID/A-17/12/011	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	24/12/2017	Date of Testing	27/12/2017
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 Call. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-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	1.26	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	600	605	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	120	82	95	99	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	270	110	168	183	–	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	18	13	17	16	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	11.6	14.3	12.5	12.8	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	18.3	17.5	15.4	17.1	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:

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

Page No.: 1 of 1

Tested By:

B. J. P.
(Chemist) / (Sr. Chemist)
(B. J. P.)

Authorized By:

Hardeep
(Manager - Operations)
(H. D. S.)

UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/12/A-SDC010	Report Issue Date:	30/12/2017
Sample ID No.	UERL/AIR/ID/A-17/12/010	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	24/12/2017	Date of Testing	27/12/2017
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/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	1.25	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	605	600	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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	148	56	80	95	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	290	84	167	180	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	25	17	20	20.7	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	12.6	10.8	9.3	10.9	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	21.7	17.3	18.5	19.2	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:

(Signature)
(Chemist)/(Supervisor)
(21/1)

Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)
(B. J. P.)

Authorized By:

(Signature)
(Manager - Operations)
(S. J. P.)

UERL/AIR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/12/A-SDC009	Report Issue Date:	30/12/2017
Sample ID No.	UERL/AIR/ID/A-17/12/009	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	23/12/2017	Date of Testing	26/12/2017
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Pachtedl Village Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cal. Date	Next Cali. Date
UERL/AIR/RDS/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-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	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	605	605	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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	66	36	48	50	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	167	50	73	97	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	18	12	15	15	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	11.7	12.5	13.8	12.7	80	IS – 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	20.5	13.8	15.7	16.6	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)
(A-27)

Page No.: 1 of 1

Tested By:

P. Patel
(Chemist) / (Sr. Chemist)
(B-30)

Authorized By:

A. Patel
(Manager - Operations)
(A-27)
UERL/AIR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/12/A-SDC008	Report Issue Date:	30/12/2017
Sample ID No.	UERL/AIR/ID/A-17/12/008	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	23/12/2017	Date of Testing	26/12/2017
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	Call. Date	Next Cali. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-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	1.27	1.25	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	610	600	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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	134	70	84	96	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	251	98	147	165	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	21	10	15	15	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	10.3	12.7	14.2	12.4	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	21.6	15.5	20.7	19.3	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:

Arvind
(Chemist)/(Supervisor)
(A-2-1)

Page No.: 1 of 1

Tested By:

B. J. Patel
(Chemist)/(Sr. Chemist)
(B-J-P)

Authorized By:

Sanjay
(Manager - Operations)
(S-J)

UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/17/12/A-SDC007	Report Issue Date:	30/12/2017
Sample ID No.	UERL/AIR/ID/A-17/12/007	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	23/12/2017	Date of Testing	26/12/2017
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/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	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	600	605	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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.: $25 \pm 5^\circ\text{C}$, 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	130	62	75	89	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	284	75	146	168	–	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	27	13	18	19	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	11.5	12.3	13.8	12.5	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	20.5	18.3	21.5	20.1	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 parameters are within Specify Norms.

Sampling Done By:

Acil
(Chemist)/(Supervisor)

Page No.: 1 of 1

Tested By:

(Chemist) / (Sr. Chemist)
(B. J. P.)

Authorized By:

(Manager - Operations)

UURL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/01/A-SDC012	Report Issue Date:	28/01/2018
Sample ID No.	UERL/AIR/IC/A-18/01/012	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 362140, Jamnagar (Gujarat)		
Dates of Sampling	21/01/2018	Date of Testing	24/01/2018
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/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-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	1.27	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	600	610	610
3.	Volume of Air Sampled for PM ₁₀ (24 Hrs.)	m ³	24.15		
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	81	50	65	65	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	169	62	96	109	-	IS - 5182, Part - 73
3.	PM _{2.5}	µg/m ³	21	14	17	17	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	10.3	12.5	14.2	12.3	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	21.6	15.4	18.7	18.5	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 Specified Norms

Sampling Done By:

A. C. Patel
(Chemist / Supervisor)
(A.C.P.)

Page No. 1 of 1

Tested By:

V. A. Patel
(Chemist) / (Sr. Chemist)
(V.A.P.)

Authorized By:

[Signature]
(Manager - Operations)
(S.S.P.)
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/01/A-SDC011	Report Issue Date:	28/01/2018
Sample ID No.	UERL/AIR/ID/A-18/01/011	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	21/01/2018	Date of Testing	24/01/2018
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	Call. Date	Next Call. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-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	1.27	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	600	610	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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	74	85	90	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	256	102	150	169	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	22	15	18	18	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	10.2	13.7	15.6	13.1	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	20.4	15.3	17.6	17.7	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:

Achal
(Chemist)/(Supervisor)
(A.A.)

Page No.: 1 of 1

Tested By:

Vijay
(Chemist) / (Sr. Chemist)
(V.A.P.)

Authorized By:

Harish
(Manager - Operations)
(H.S.)
UERL/AIR/F-05/02

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/01/A-SDC010	Report Issue Date:	28/01/2018
Sample ID No.	UERL/AIR/IO/A-18/01/010	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	21/01/2018	Date of Testing	24/01/2018
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	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	1.25	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	600	605	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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	135	50	72	85	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	277	75	158	170	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	23	15	19	19	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	13.8	12.5	10.3	12.2	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	20.5	15.7	17.2	17.8	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)
(2-2-7)

Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)
(V.A.P.)

Authorized By:

(Signature)
(Manager - Operations)
(7-3-1)

UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/01/A-SDC009	Report Issue Date:	28/01/2018
Sample ID No.	UERL/AIR/ID/A-18/01/009	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	20/01/2018	Date of Testing	23/01/2018
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/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-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	24.12		
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.: $25 \pm 5^\circ\text{C}$. 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	75	41	54	56	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	180	62	88	110	–	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	22	13	18	18	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	13.1	14.5	16.3	14.6	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	23.7	15.2	18.6	19.1	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 parameters are within Specify Norms.

Sampling Done By:

Acad
(Chemist)/(Supervisor)
(22-7)

Page No.: 1 of 1

Tested By:

\A.P.A.C.O.
(Chemist) / (Sr. Chemist)
(V. A. P.)

Authorized By: _____

(Manager - Operations)
(S-S-7)

UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/01/A-SDC008	Report Issue Date:	28/01/2018
Sample ID No.	UERL/AIR/ID/A-18/01/008	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	20/01/2018	Date of Testing	23/01/2018
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	Call. Date	Next Call. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-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 ^d
1.	Flow Rate of PM ₁₀	m ³ /min	1.25	1.27	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	600	610	605
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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.: $25 \pm 5^\circ\text{C}$, 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	125	62	78	88	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	237	90	134	153	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	20	13	17	16	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	11.4	13.2	15.8	13.4	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	20.7	14.5	18.6	17.9	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 parameters are within Specify Norms.

Sampling Done By:

Scarl
(Chemist)/(Supervisor)
(A.R.)

Page No.: 1 of 1

Tested By:

V. P. A. P.
(Chemist) / (Sr. Chemist)
(V. P. A. P.)

Authorized By:

(Manager - Operations)
(J-S.7)

UERL/AIR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/01/A-SDC007	Report Issue Date:	28/01/2018
Sample ID No.	UERL/AIR/ID/A-18/01/007	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	20/01/2018	Date of Testing	23/01/2018
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/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	1.25	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	614	600	605
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	115	56	78	83	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	258	62	125	148	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	25	16	20	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	10.9	11.6	13.1	11.8	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	18.6	16.2	19.8	18.2	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:

A. Patel
(Chemist)/(Supervisor)
(A-37)

Page No.: 1 of 1

Tested By:

V. Patel
(Chemist)/(Sr. Chemist)
(V.A.P.)

Authorized By:

S. Patel
(Manager/Operations)
(S-37)
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/02/A-SDC012	Report Issue Date:	01/03/2018
Sample ID No.	UERL/AIR/IO/A-18/02/012	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	25/02/2018	Date of Testing	27/02/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Pachtedl Village Site)		

> Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DYE-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	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	605	605	600
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	90	58	75	74	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	180	84	115	126	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	25	16	21	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	14.5	13.2	15.7	14.4	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	23.2	16.8	20.4	20.1	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)

(A. P.)

Page No.: 1 of 1

Tested By:

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

(B. J. P.)

Authorized By:

(Signature)
(Manager - Operations)

(S. S.)

UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/02/A-SDC011	Report Issue Date:	01/03/2018
Sample ID No.	UERL/AIR/ID/A-18/02/011	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	25/02/2018	Date of Testing	27/02/2018
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	Call. Date	Next Call. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-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	1.27	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	600	610	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.15		
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.: $25 \pm 5^\circ\text{C}$, 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	67	78	83	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	230	92	135	152	–	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	26	16	19	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	13.5	11.8	16.4	13.9	80	IS – 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	21.3	14.6	18.2	18.0	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 parameters are within Specify Norms.

Sampling Done By:

Attested:
(Chemist)/(Supervisor)
C A R. P)

Page No.: 1 of 1

Tested By:

~~Excluded~~
(Chemist) / (Sr. Chemist)
(B. J. P.)

Authorized By:

(Manager - Operations)
(S-S-1)
UERL/AIR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/02/A-SDC010	Report Issue Date:	01/03/2018
Sample ID No.	UERL/AIR/ID/A-18/02/010	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	25/02/2018	Date of Testing	27/02/2018
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	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	1.26	1.25	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	605	600	610
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	122	46	80	82	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	230	65	148	147	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	27	16	23	22	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	14.3	11.6	16.5	14.1	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	21.5	14.7	18.4	18.2	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:

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

Page No.: 1 of 1

Tested By:

(Signature)
(Chemist)/(Sr. Chemist)
(B. J. P)

Authorized By:

(Signature)
(Manager - Operations)

(J-S-7)
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/02/A-SDC009	Report Issue Date:	01/03/2018
Sample ID No.	UERL/AIR/ID/A-18/02/009	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	24/02/2018	Date of Testing	26/02/2018
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	Call. Date	Next Call. Date
UERL/AIR/RDS/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/D6	Fine Particulate Sampler	270-DTE-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	1.25	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	595	600	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.13		
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	84	50	62	65	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	208	75	96	126	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	24	17	21	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	14.3	12.6	16.8	14.5	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	24.7	16.5	20.2	20.4	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)

(CAP)

Page No.: 1 of 1

Tested By:

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

(CB-J.P.)

Authorized By:

(Signature)
(Manager - Operations)

(3-5-1)

UERL/AIR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/02/A-SDC008	Report Issue Date:	01/03/2018
Sample ID No.	UERL/AIR/ID/A-18/02/008	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	24/02/2018	Date of Testing	26/02/2018
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/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-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	1.29
2.	Volume of Air Sampled for PM ₁₀	m ³	605	610	619
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	118	56	71	81	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	225	83	120	142	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	25	14	20	19	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	12.4	10.8	15.1	12.7	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	20.2	15.6	17.4	17.7	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)

(A R P)

Page No.: 1 of 1

Tested By:

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

(R. D. P)

Authorized By:

(Signature)
(Manager/Operations)

(3-5-1)

UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/02/A-SDC007	Report Issue Date:	01/03/2018
Sample ID No.	UERL/AIR/ID/A-18/02/007	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	24/02/2018	Date of Testing	26/02/2018
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	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	1.25	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	24.15		
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.: $25 \pm 5^\circ\text{C}$, 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	103	50	72	75	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	236	68	114	139	–	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	26	15	22	21	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	13.3	12.5	15.2	13.6	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	22.6	15.7	20.3	19.5	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:

Attd.
(Chemist)/(Supervisor)
(A.R.P)

Page No.: 1 of 1

Tested by:

Expatel
(Chemist) / (Sr. Chemist)
(B. J. P.)

Authorized by:

(Manager - Operations)
C.D. S. 71
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/03/A-SDC012	Report Issue Date:	29/03/2018
Sample ID No.	UERL/AIR/ID/A-18/03/012	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	23/03/2018	Date of Testing	25/03/2018
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	Cal. Date	Next Cal. Date
UERL/AIR/RDS/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-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	1.28	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	805	614	610
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.09		
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	107	67	83	85	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	207	96	121	141	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	31	22	25	26	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	15.3	12.7	17.6	15.2	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	27.5	20.6	24.3	24.1	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 NAAQM5 (National Ambient Air Quality Monitoring Standard) Notification - 2009, mention all parameter are within Specify norms.

Sampling Done By:

(Signature)
(Chemist)/(Supervisor)

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

Tested By:

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

Authorized By:

(Signature)
(Manager Operations)

(A.S.T.)
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/03/A-SOC011	Report Issue Date:	29/03/2018
Sample ID No.	UERL/AIR/IO/A-18/03/011	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	23/03/2018	Date of Testing	25/03/2018
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	Call. Date	Next Call. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-OTK-4134 OTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DYE-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	1.25	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	595	600	605
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	100	78	89	89	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	245	100	156	167	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	32	21	24	25	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	15.3	12.7	17.5	15.1	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	26.5	18.3	22.4	22.4	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:

Aceel
(Chemist)/(Supervisor)
(A A A)

Page No. 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/03/A-SOC010	Report Issue Date:	29/03/2018
Sample ID No.	UERL/AIR/AD/A-18/03/010	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140. Jamnagar (Gujarat)		
Dates of Sampling	23/03/2018	Date of Testing	25/03/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhar Mines (Loading Site)		

Details of Master Instruments Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cal. Date	Next Cal. 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	1.29	1.30	1.31
2.	Volume of Air Sampled for PM ₁₀	m ³	619	624	628
3.	Volume of Air Sampled for PM ₁₀ (24 Hrs.)	m ³	24.18		
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	94	56	76	75	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	252	79	151	160	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	32	20	27	26	60	CPCB Manual Volume 3
4.	Sulphur Dioxide	µg/m ³	13.5	12.7	17.6	14.6	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	23.3	17.5	21.7	20.8	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:

Arul
(Chemist)/(Supervisor)

(Signature)
Page No. 1 of 1

Tested By:

Joshi
(Chemist)/(Sr. Chemist)

Authorized By:

Sanjay
(Manager - Operations)

(Signature)
UERL/AIR/F-OS/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/19/03/A-SDC009	Report Issue Date:	29/03/2018
Sample ID No.	UERL/AIR/10/A 18/03/009	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	22/03/2018	Date of Testing	24/03/2018
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/23	Respirable Dust Sampler	2343 DTB, 1038-DTC-2012	01/04/2017	31/03/2018
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-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	1.25
2	Volume of Air Sampled for PM ₁₀	m ³	604	609	600
3	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.18		
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	92	61	70	74	100	IS - 5182, Part - 23
2	SPM	µg/m ³	223	71	102	132	—	IS - 5182, Part - 23
3	PM _{2.5}	µg/m ³	29	15	22	22	60	CPCB Manual Volume 1
4	Sulphur Dioxide	µg/m ³	13.2	11.7	14.3	13.0	80	IS - 5182, Part - 2
5	Nitrogen Dioxide	µg/m ³	22.0	19.2	24.2	21.8	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:

Arun
(Chemist/Supervisor)

Page No. 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

UERL/AIR/F-05/02

(AMBIENT AIR MONITORING)

Details of Master Instrument Used for Monitoring

➤ General Sampling / Monitoring Observation as per CPCB Guideline

➤ Environmental Conditions during testing: Temp.: $25 \pm 5^\circ\text{C}$, Relative Humidity: 40 to 50%

➤ Test Parameter Results

Note: BDL: Below Detection Limit

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

Sampling Done By _____

Acid
(Chemist)/(Supervisor)
(A 2 2)

Page No. 1 of 1

Tested By

(Chemist) / (Sr. Chemist)

Authorized By _____

(Manager Operations)

(1-1)

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/03/A-SDC008	Report Issue Date:	29/03/2018
Sample ID No.	UERL/AIR/ID/A-18/03/008	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	22/03/2018	Date of Testing	24/03/2018
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	Cal. Date	Next Cal. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-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	1.20	1.21	1.20
2.	Volume of Air Sampled for PM ₁₀	m ³	576	580	576
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.08		
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	108	72	86	88	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	203	76	132	137	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	29	19	26	24	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	14.7	12.3	17.4	14.8	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	24.3	18.4	21.3	21.3	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)
()

Page No.: 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

()
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/03/A-SQC007	Report Issue Date:	29/03/2018
Sample ID No.	UERL/AIR/ID/A-18/03/007	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140. Jamnagar (Gujarat)		
Dates of Sampling	22/03/2018	Date of Testing	24/03/2018
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	Cal. Date	Next Cal. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254-3490-OTG-2008	21/08/2017	20/08/2018
UERL/AIR/FPS/08	Fine Particulate Sampler	173-OTB-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	1.29
2.	Volume of Air Sampled for PM ₁₀	m ³	614	609	619
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	96	62	81	79	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	264	95	124	161	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	32	14	25	23	60	CPCB Manual Volume I
4.	Sulphur Dioxide	µg/m ³	15.8	13.2	17.5	15.5	80	IS - 5182, Part - 7
5.	Nitrogen Dioxide	µg/m ³	28.2	17.3	24.6	23.3	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:

Acarul
(Chemist)/(Supervisor)

(Signature)
Page No.: 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

(Signature)
UERL/AIR/F-05/02

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	17/10/N-SDC001	Date Of Report:	04/11/2017
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/09B	Sound Level Meter	SL 4010	01/04/2017	31/03/2018

1) Gop (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
28/10/2017	Gop Village	55.2	35.0
28/10/2017	Jeenawari Village	56.8	35.0
29/10/2017	Gop Village	58.3	35.1
29/10/2017	Jeenawari Village	52.7	35.0

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
28/10/2017	Chorbedi Village	56.1	35.0
29/10/2017	Chorbedi Village	55.2	35.0

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
29/10/2017	Pachhtar Village	58.3	35.0
30/10/2017	Pachhtar Village	57.5	35.0

Note:

Permissible Limit :

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

Checked By

Accl

Authorized By

[Signature]

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	17/06/N-SDC002	Date Of Report:	20/06/2017
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/09B	Sound Level Meter	SL 4010	01/04/2017	31/03/2018

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.
29/10/2017	Dozer D9-R	88.2	81.5	74.3
29/10/2017	Tata Hitachi Ex 200	88.9	74.2	71.7
29/10/2017	Kirlosker Compressor	87.5	73.8	70.2

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.
30/10/2017	Dozer D9-R	89.2	75.5	74.2
30/10/2017	Tata Hitachi Ex 200	88.8	75.3	73.8
30/10/2017	Kirlosker Compressor	88.5	76.2	74.3
30/10/2017	Wagon Drill WD – 300	89.1	76.5	74.8

Note:

Permissible Limit :

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

Checked By

Arjun

Authorized By

Arjun

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	17/11/N-SDC001	Date Of Report:	30/11/2017
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	Call. Date	Next Call. Date
UERL/AIR/SLM/09B	Sound Level Meter	SL 4010	01/04/2017	31/03/2018

1) Gop (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
17/11/2017	Gop Village	53.2	35.0
17/11/2017	Jeenawari Village	55.4	35.0
18/11/2017	Gop Village	54.5	35.0
18/11/2017	Jeenawari Village	53.8	35.0

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
17/11/2017	Chorbedi Village	52.8	35.0
18/11/2017	Chorbedi Village	54.7	35.0

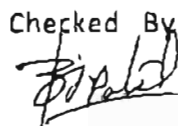
3) Pachhtar (Composite) Limestone Mines.

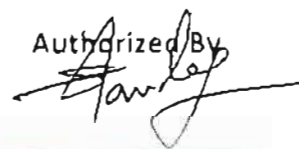
Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
17/11/2017	Pachhtar Village	55.2	35.0
18/11/2017	Pachhtar Village	55.5	35.0

Note:

Permissible Limit :

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

Checked By


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WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	17/11/N-SDC002	Date Of Report:	30/11/2017
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/09B	Sound Level Meter	SL 4010	01/04/2017	31/03/2018

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.
17/11/2017	Dozer D9- W	86.5	80.3	75.5
17/11/2017	Tata Hitachi Ex 200	87.5	75.2	73.4
17/11/2017	Kirlosker Compressor	88.2	75.3	70.5

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.
18/11/2017	Dozer D9-R	88.8	76.2	75.1
18/11/2017	Tata Hitachi Ex 200	87.5	77.2	74.6
18/11/2017	Kirlosker Compressor	89.2	75.8	73.8
18/11/2017	Wagon Drill WD – 300	89.5	75.9	73.9

Note:

Permissible Limit :

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

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AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	17/12/N-SDC001	Date Of Report:	30/12/2017
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/09B	Sound Level Meter	SL 4010	01/04/2017	31/03/2018

1) Gop (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
22/12/2017	Gop Village	54.5	35.0
22/12/2017	Jeenawari Village	54.2	35.0
23/12/2017	Gop Village	51.7	35.0
23/12/2017	Jeenawari Village	52.0	35.0

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
22/12/2017	Chorbedi Village	50.4	35.0
23/12/2017	Chorbedi Village	52.7	35.0

3) Pachhtar (Composite) Limestone Mines.

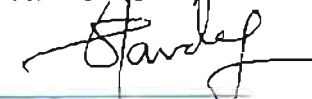
Date of Monitoring	Name of Site	Noise Level – dB (A)	
		Day Time	Night Time
22/12/2017	Pachhtar Village	53.8	35.0
23/12/2017	Pachhtar Village	54.5	35.0

Note:

Permissible Limit :

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

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WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	17/12/N-SDC002	Date Of Report:	30/12/2017
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	Call. Date	Next Call. Date
UERL/AIR/SLM/09B	Sound Level Meter	SL 4010	01/04/2017	31/03/2018

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.
22/12/2017	Dozer D9-R	88.3	81.7	74.8
22/12/2017	Tata Hitachi Ex 200	86.3	78.5	74.2
22/12/2017	Kirlosker Compressor	87.5	79.2	72.1

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.
23/12/2017	Dozer D9-R	89.3	78.5	75.5
23/12/2017	Tata Hitachi Ex 200	88.2	75.5	75.2
23/12/2017	Kirlosker Compressor	88.5	76.2	74.3
23/12/2017	Wagon Drill WD – 300	89.8	77.5	74.8

Note:

Permissible Limit :

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

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Acetal

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Harley

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	18/01/N-SDC001	Date Of Report:	28/01/2018
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/098	Sound Level Meter	SL 4010	01/04/2017	31/03/2018

1) Gop (Composite) Limestone Mlnes.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
19/01/2018	Gop Village	57.2	35.0
19/01/2018	Jeenawari Village	56.5	35.0
20/01/2018	Gop Village	53.8	35.0
20/01/2018	Jeenawari Village	54.6	35.0

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
19/01/2018	Chorbedi Village	52.5	35.0
20/01/2018	Chorbedi Village	55.1	35.0

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
20/01/2018	Pachhtar Village	55.4	35.0
21/01/2018	Pachhtar Village	52.7	35.0

Note:

Permissible Limit :

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

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UERL/AIR/F-18/00

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	18/01/N-SDC002	Date Of Report:	28/01/2018
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	Call. Date	Next Cali. Date
UERL/AIR/SLM/09B	Sound Level Meter	SL 4010	01/04/2017	31/03/2018

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.
20/01/2018	Dozer D9-R	87.9	79.6	72.2
20/01/2018	Tata Hitachi Ex 200	85.6	76.8	72.5
20/01/2018	Kirlosker Compressor	88.7	81.4	75.3

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.
21/01/2018	Dozer D9-R	88.7	77.6	75.1
21/01/2018	Tata Hitachi Ex 200	88.9	76.4	75.6
21/01/2018	Kirlosker Compressor	89.2	76.8	75.4
21/01/2018	Wagon Drill WD - 300	89.5	77.1	74.4

Note:

Permissible Limit :

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

Prepared By

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Authorized By

Hardev

UERL/AIR/F-20/00

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	18/03/N-SDC001	Date Of Report:	29/03/2018
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	Call. Date	Next Call. Date
UERL/AIR/SLM/098	Sound Level Meter	SL 4010	01/04/2017	31/03/2018

1) Gop (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
21/03/2018	Gop Village	55.8	35.0
21/03/2018	Jeenawari Village	56.3	35.0
22/03/2018	Gop Village	58.5	35.0
22/03/2018	Jeenawari Village	59.1	35.0

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
21/03/2018	Chorbedi Village	57.2	35.0
22/03/2018	Chorbedi Village	55.7	35.0

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
22/03/2018	Pachhtar Village	58.8	35.0
23/03/2018	Pachhtar Village	57.2	35.0

Note:

Permissible Limit :

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

Prepared By

Aravind

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UERL/AIR/F-18/00

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.	18/03/N-SDC001	Date Of Report	29/03/2018
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/09B	Sound Level Meter	SL 4010	01/04/2017	31/03/2018

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.
21/03/2018	Dozer D9-R	89.1	83.5	75.7
21/03/2018	Tata Hitachi Ex 200	89.4	80.7	73.2
21/03/2018	Kirloskar Compressor	88.7	79.3	72.8

3) Pachhlar (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.
22/03/2018	Dozer D9-R	88.9	76.2	73.3
22/03/2018	Tata Hitachi Ex 200	88.4	75.5	72.1
22/03/2018	Kirloskar Compressor	88.2	75.4	72.5
22/03/2018	Wagon Drill WD - 300	89.3	75.8	72.6

Note:

Permissible Limit:

TWA, Time Weighted Average) 8 Hrs. 90 dB (A)

Prepared By

Arvind

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Arvind

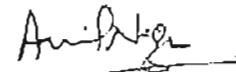
UERL/AIR/F-20/00

Date: 28/05/2018

**PACHHTAR (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	111800
3	Purchasing of Sapling	2010
4	Purchasing of Soil	0
5	Recurring Expenses for Security and Maintenance of Plantation	74100
6	Maintenance of fencing	2500
	Total	406410

Signature



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

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SHREE DIGVIJAY CEMENT CO. LTD.

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