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Pac/MoEF/HYC/A/302/1562

Date: 26-Nov-18

The Director (S)

Ministry of Environment & Forests and Climate Change,
Regional Office, Western Region,
Government of India,
Kendriya Paryavaran Bhavan,
Link Road No.3., E-5 Ravi Shankar Nagar,
BHOPAL 462 016 (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 **Pachhtar (Composite) Limestone Mine for the period April 2018 to Sep 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 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:-

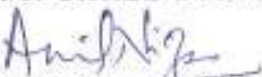
Environment Statement in Form V	: Annexure A
Ambient Air Quality Reports	: Annexure B
Noise Level	: Annexure C
Environment Half Yearly Expenses Statement	: Annexure D

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

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

April 2018 to September 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.	Complied. Mining operation is being carried out as per EC and the Mining Plan approved by IBM. IBM has approved a fresh Mining Plan on 13.02.2018 for the period of 2018 -19 to 2022 -23, and all mining activity is being carried out as per approved mining plan.
(ii)	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM ₁₀), NO _x in the ambient air within the impact one shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006 -IA. II (M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	Complied. 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.	Complied. Environmental statement for each financial year ending 31 st March in Form V is being submitted to the Gujarat Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986.

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

SL.	CONDITIONS	COMPLIANCE STATUS
A. Specific Conditions		
(i)	Prior approval of the Chief Wildlife Warden, Government of Gujarat, shall be obtained before expansion of mining activities.	We have not undertaken any expansion of mining activities at Pachhtar Limestone Mine.
(ii)	The production capacity from this mine shall not exceed 1.0 MTPA with a capping of production of limestone to 2.2 MTPA from all 5 Mines, namely Gop, Pachhtar, Mokhana, Chorbedi and Bhogat Limestone mines put together subject to the individual mines obtaining environmental clearance.	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 April 2018 to September 2018 from Pachhtar Mines is 203722.72 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.	In the year 2017-18, total 210 Nos of sapling were planted and this year 2018-19 total 205 Nos of sapling planted as per proposal of mining plan. We are committed to develop a green belt in mines area.
(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.
(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

SL.	CONDITIONS	COMPLIANCE STATUS
B	General conditions	
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	We are carrying out mining operations in accordance with EC & Mining Plan approved by IBM for the period of 2018-19 to 2022-23.
(ii)	No change in the calendar plan including excavation, quantum of limestone and waste should be made.	We are carrying out mining operations in accordance with EC & Mining Plan approved by IBM for the period of 2018-19 to 2022-23.
(iii)	Data on ambient air quality (RPM and SPM) should be regularly submitted once a year to the Ministry including its Regional Office (WZ) at Bhopal and the Gujarat State Pollution Control Board /Central Pollution Control Board once in six months.	Data of ambient air quality (RPM & SPM) are regularly submitted Half yearly on or before 1 st June and 1 st December every year to MOEF Regional Office (WR), Bhopal and GPCB, Gandhinagar. Data of Ambient Air Quality Survey conducted during the half year April 2018 to September 2018 is enclosed, Annexure B.
(iv)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) should be provided and properly maintained.	Fugitive dust emissions from all the sources are controlled regularly. Water spraying arrangement on haul roads and mining area is being practiced and properly maintained.
(v)	Adequate measures should be taken for control of noise levels in the work environment.	An adequate measure is being taken for control of noise levels in the work environment. Regularly monitoring the noise level. Dozer-Ripper is provided with AC cabin for operator which protects the operator from heat, noise & dust. Machineries are maintained in good service condition. Data of monitoring the noise level measured and recorded during the half year period April 2018 to September 2018 is enclosed as Annexure C.
(vi)	Industrial waste water, if any, should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time.	Not applicable.
(vii)	Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance program of the workers is being taken periodically to observe any contractions due to exposure to dust. So far not a single case is detected.
(viii)	The funds earmarked For environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to this Ministry's Regional Office located at Bhopal (WZ).	The funds earmarked for environmental protection measures is kept in separate account and not diverted for other purpose. Expenditure for environmental protection measures for the period of April 2018 to September 2018 is being enclosed as Annexure D.
(ix)	The Regional Office (WZ) of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office (s) of the Regional Office by furnishing the requisite data / information/ monitoring reports.	Project authorities are always extending full co-operation to the authorities/officials visiting the Mines site for data/information/monitoring report etc
(x)	A copy of clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom and suggestion/representation has been received while processing the proposal.	Copy of clearance letter was handed over to all concerned Panchayat.
(xi)	State pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's office/Tehsildar's Office for 30 days and provide copies of the same to anyone requesting for the same.	For compliance by Gujarat Pollution Control Board, Gandhinagar.

SL.	CONDITIONS	COMPLIANCE STATUS
(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 Pachhtar Mines which is having following advantages:-

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

Other measures -

5. Drilling is eliminated By deployment of Ripper-Dozer.
6. Dust suppressed on haul road by water sprinkling.
7. Fumes and smoke emissions from HEMM controlled by regular maintenance and timely overhaul of engines.
8. Tarpaulin covering on the transporting vehicle before leaving the mine site.
9. AAQ monitoring is done on regular basis. Contract awarded to M/s Unistar, Vapi and reports are submitted to GPCB, Gandhinagar, MOEF, New Delhi and Regional Office of MOEF, Bhopal.

PART - I

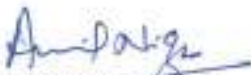
Any other particulars for improving the quality of the environment

Following are various measures taken by us: -

1. Plantation has been done in mines.
2. Sense of creating & maintaining clean environment among the employees are being created by celebrating Mines Environment and Mineral Conservation Week every year and Environment Day and other such functions time to time on Environment, keeping slogan boards on environment etc.

Date: 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

MAFF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986(12/01/2015 to 11/01/2023)

QC-NABET Accredited (IA Consultancy) Organisation

CPCB Recognized Environmental Auditor (Schedule-II)

ONASAS18001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC007	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/007	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	14/04/2018	Date of Testing	16/04/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	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/04	Respirable Dust Sampler	1714-DTE-2010, 2581-DTC-2005	21/08/2017	20/08/2018
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-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	128	52	80	87	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	310	81	105	165	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	36	17	28	27	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	17.5	15.3	20.4	17.7	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	29.7	18.6	25.1	24.4	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)

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

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

C.S. 2.3
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC008	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/008	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	14/04/2018	Date of Testing	16/04/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Mine Haul Road Site)		

> Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/12	Respirable Dust Sampler	1861- 4178-DTL-2010	25/10/2017	24/10/2018
UERL/AIR/FP5/21	Fine Particulate Sampler	20-DTC-2012	01/04/2017	31/03/2018

> General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.24	1.27	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	595	610	605
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	126	65	92	94	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	242	102	168	171	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	17	28	26	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	16.3	13.5	19.7	16.5	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	27.5	17.8	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:

(Signature)
(Chemist)/(Supervisor)

(M.R.N.)
Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)
(M.R.N.)

Authorized By:

(Signature)
(Manager - Operations)

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

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC009	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/009	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	14/04/2018	Date of Testing	16/04/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Pachtedi Village Site)		

> Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL-2012	07/03/2017	06/03/2018

> 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	1.23	1.25	1.24
2.	Volume of Air Sampled for PM ₁₀	m ³	590	600	595
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.06		
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	102	55	82	80	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	264	83	138	162	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	32	16	26	25	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	16.2	12.4	18.7	15.7	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	29.5	21.3	25.9	25.5	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:

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

Page No.: 1 of 1

Tested By:

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

Authorized By:

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

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC010	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/010	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	15/04/2018	Date of Testing	17/04/2018
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/U4	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2017	20/08/2018
UERL/AIR/FPS/U9	Fine Particulate Sampler	546-DTK-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	1.28	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	600	614	605
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.10		
4.	Flow Rate for Gas	L/min	1.5	1.5	1.5
5.	Volume of Air Sample for Gas	L	720	720	720

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

> Test Parameter Results

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	118	61	80	86	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	296	83	178	186	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	35	18	28	27	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	18.3	14.5	19.1	17.3	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	28.4	18.2	25.6	24.0	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 parameter are within Specify Norms.

Sampling Done By:

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

Page No.: 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)
(2.2.2)
UERL/AIR/F-05/02

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC011	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/011	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 351140, Jamnagar (Gujarat)		
Dates of Sampling	15/04/2018	Date of Testing	17/04/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachtar Mines (Mine Haul Road Site)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cal. Date	Next Cali. Date
UERL/AIR/RDS/12	Respirable Dust Sampler	1861-4178-DTL-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	01/04/2017	31/03/2018

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	1.26	1.28
2.	Volume of Air Sampled for PM ₁₀	m ³	614	605	614
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	121	67	92	93	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	318	90	173	194	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	35	19	27	27	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	17.8	14.5	18.3	16.8	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	29.1	17.3	24.7	23.7	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)
(S.P.P.)

Authorized By:

(Signature)
(Manager - Operations)

(S.P.P.)
UERL/AIR/F-05/02

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC012	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/012	Work Order No.	4500035950
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	15/04/2018	Date of Testing	17/04/2018
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/13	Respirable Dust Sampler	1715-DTE-2010 287-DTD-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL-2012	07/03/2017	06/03/2018

> 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	1.25
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	24.18		
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	95	51	79	75	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	183	78	108	123	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	28	17	22	22	50	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	16.8	13.4	18.2	16.1	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	29.2	18.7	25.6	24.5	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:

(Signature)
(Chemist)/(Supervisor)

(C.D.R.)
Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)
(W.S.P.)

Authorized By:

(Signature)
(Manager - Operations)

(C.D.R.)
UERL/AIR/F-05/02

ISO/IEC 17025 (2005) Recognized Environmental
Laboratory under the EPA-1985(12.01.2015 to 11.01.2020)

ISO/IEC 17025 (2005) Recognized Environmental
Laboratory under the EPA-1985(12.01.2015 to 11.01.2020)

CPCB Recognized Environmental
Auditor (Schedule-II)

ISO/IEC 17025 (2005) Recognized Environmental
Laboratory under the EPA-1985(12.01.2015 to 11.01.2020)

ISO/IEC 17025 (2005) Recognized Environmental
Laboratory under the EPA-1985(12.01.2015 to 11.01.2020)

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-5DC007	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/10/A-18/05/007	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	19/05/2018	Date of Testing	21/05/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Loading Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2017	20/08/2018
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-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	1.23	1.24	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	590	595	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.06		
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	132	58	85	92	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	338	96	144	193	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	35	18	30	28	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	23.1	18.4	21.5	21.0	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	32.4	20.6	28.7	27.2	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)

C.B.J. P
Page No.: 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

C.B.J. P
UERL/AIR/F-05/02

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

QC-NABET Accredited BA
Consultant Organization

CPCB Recognized Environmental
Auditor (Schedule-II)

ISO/AS18001:2007
Certified Company

ISO 9001:2015
Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-SDC008	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/008	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	19/05/2018	Date of Testing	21/05/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Mine Haul Road Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/12	Respirable Dust Sampler	1861- 4178-DTL-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	01/04/2017	31/03/2018

➤ **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	605	614	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%

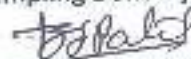
➤ **Test Parameter Results**

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	115	62	88	88	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	225	93	147	155	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	30	15	26	24	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	21.8	15.2	20.4	19.1	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	29.5	18.4	26.7	24.8	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyzer

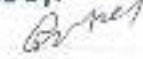
Note: BDL: Below Detection Limit.

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

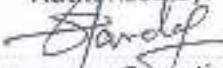
Sampling Done By:


(Chemist)/(Supervisor)
C.B.-J.-P)
Page No.: 1 of 1

Tested By:


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

Authorized By:


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

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

ISOHABET Accredited BA Consultant Organization

CPCB Recognized Environmental Auditor (Schedule-II)

OHSA18001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-SDC009	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/009	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	19/05/2018	Date of Testing	21/05/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Pachhtar Mines (Pachtedi Village Site)		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL-2012	07/03/2017	06/03/2018

➤ 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	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	600	605	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 ± 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	109	60	86	85	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	285	94	162	180	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	18	29	27	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	20.8	15.4	19.2	18.4	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	31.4	22.7	28.5	27.5	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:

(Signature)
(Chemist)/(Supervisor)

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

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

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

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (12.01.2015 to 11.01.2023)

QCH&MET Accredited SA Consultant Organization

CPCB Recognized Environmental Auditor (Schedule-II)

ISO 9001:2007 Certified Company

ISO 14001:2015 Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-SDC010	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/010	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	20/05/2018	Date of Testing	22/05/2018
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/04	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2017	20/08/2018
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-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	24.18		
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	121	64	83	89	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	314	89	195	199	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	34	19	30	28	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	23.1	16.8	21.2	20.3	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	32.2	20.4	28.6	27.0	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 parameter are within Specify Norms.

Sampling Done By:

B. Patel
(Chemist)/(Supervisor)
(B-2-P)

Page No.: 1 of 1

Tested By:

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

Authorized By:

Handwritten Signature
(Manager - Operations)

C.D.-S.7
UERL/AIR/F-05/02

MAEF&CC (G.O.) Recognized Environmental Laboratory Under the EPA-1986 (2.01.2015 to 1.1.01.2020)

ISO/IEC 17025:2017 Accredited PA Consultant Organization

CPCB Recognized Environmental Auditor (Schedule-II)

ISO 9001:2015 Certified Company

ISO 14001:2015 Certified Company

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-SDC011	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/011	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	20/05/2018	Date of Testing	22/05/2018
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/12	Respirable Dust Sampler	1861-4178-DTL-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	01/04/2017	31/03/2018

➤ 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	1.24	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	59	595	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.11		
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	116	65	89	90	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	305	84	158	182	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	34	17	27	26	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	19.5	15.2	17.8	17.5	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	31.1	19.7	27.5	26.1	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. J. P.)

Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)
(M. C. B.)

Authorized By:

(Signature)
(Manager - Operations)

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

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GPCR Recognized Environmental Auditor (Schedule-II)

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ISO 14001:2015 Certified Company

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-SDC012	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/012	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	20/05/2018	Date of Testing	22/05/2018
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/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL 2012	07/03/2017	06/03/2018

➤ 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	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	605	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 ± 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	102	56	80	79	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	210	87	154	150	-	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	30	18	26	25	60	CPCB Manual Volume I
4.	Sulphur Dioxide	µg/m ³	21.4	16.7	19.5	19.2	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	31.6	19.1	27.3	26.0	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 parameter are within Specify Norms.

Sampling Done By:

[Signature]
(Chemist)/(Supervisor)
C.B. J. D.

Page No.: 1 of 1

Tested By:

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

Authorized By:

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

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ISO 9001:2015 Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/06/A-SDC007	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/ID/A-18/06/007	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	15/06/2018	Date of Testing	18/06/2018
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/04	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2017	20/08/2018
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-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	24.10		
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	112	51	74	79	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	308	85	120	171	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	29	14	23	22	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	20.3	13.8	18.5	17.5	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	27.4	17.4	23.6	22.8	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:

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

Page No.: 1 of 1

Tested By:

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

Authorized By:

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

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CHSAS 10001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT
[AMBIENT AIR MONITORING]

Test Report No.	UERL/18/06/A-SDC008	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/ID/A-18/06/008	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	16/06/2018	Date of Testing	18/06/2018
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/12	Respirable Dust Sampler	1861-4178-DTL-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	01/04/2018	31/03/2019

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.25	1.27	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	24.14		
4.	Flow Rate for Gas	L/min	1.5	1.5	1.5
5.	Volume of Air Sample for Gas	L	720	720	720

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

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	96	55	80	77	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	203	82	125	137	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	26	12	21	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	20.5	13.1	17.6	17.0	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	25.3	15.7	19.5	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 parameter are within Specify Norms.

Sampling Done By:

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

Page No.: 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

(G. S. S.)
UERL/AIR/F-05/02

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ISO 9001:2015 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/06/A-SDC009	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/ID/A-18/06/009	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	15/06/2018	Date of Testing	18/06/2018
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/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/29	Fine Particulate Sampler	130 DTL-2012	07/03/2018	06/03/2019

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.27	1.25	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	610	600	605
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	93	51	75	73	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	252	85	148	162	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	28	14	24	22	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	19.6	13.2	17.5	16.7	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	27.5	17.7	22.3	22.5	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:

(Signature)
(Chemist)/(Supervisor)

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

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

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

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OHSA315001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/06/A-SDC010	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/ID/A-18/06/010	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	17/06/2018	Date of Testing	19/06/2018
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/04	Respirable Dust Sampler	1714-DTE-2010, 2681-DTC-2005	21/08/2017	20/08/2018
UERL/AIR/FPS/09	Fine Particulate Sampler	546-DTK-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	1.74	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	600	595	605
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
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	110	54	71	78	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	296	77	162	178	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	27	13	21	20	50	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	20.4	15.1	17.4	17.6	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	27.5	16.7	22.3	22.1	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyzer

Note: BDL: Below Detection Limit.

Remark: As per NAAQM5 (National Ambient Air Quality Monitoring Standard) Notification - 2009, mention all parameter are within Specify Norms.

Sampling Done By:

A. Patel
(Chemist)/(Supervisor)
(A.P.T.)
Page No.: 1 of 1

Tested By:

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

Authorized By:

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

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TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/06/A-SDC011	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/ID/A-18/06/011	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	17/06/2018	Date of Testing	19/06/2018
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/12	Respirable Dust Sampler	1861-4178-DIL-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/21	Fine Particulate Sampler	20 DTC-2012	01/04/2018	31/03/2019

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.27	1.26	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	24.12		
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	98	52	81	77	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	274	79	126	160	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	28	15	23	22	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	19.3	12.5	16.8	16.2	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	27.5	15.6	23.7	22.2	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)
(AET)

Page No.: 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

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

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Consultant Organization

GPCS Recognized Environmental
Auditor (Schedule-II)

ISO 18001:2007
Certified Company

ISO 9001:2015
Certified Company

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/06/A-SDC012	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/10/A-18/05/012	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	17/06/2018	Date of Testing	19/06/2018
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/13	Respirable Dust Sampler	1716-DTE-2010 287-DTD-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/29	Fine Particulate Sampler	130-DTL-2012	07/03/2018	05/03/2019

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.24	1.25	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	24.16		
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	48	71	70	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	185	74	128	129	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	26	14	20	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	19.6	12.9	16.4	16.3	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	27.2	16.5	22.8	22.1	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyzer

Note: BDL: Below Detection Limit.

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

Sampling Done By:

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

Page No.: 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)
(S.S.-2-7)
UERL/AIR/F-05/02

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	18/04/N-SDC001	Date Of Report:	24/04/2018
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		

➤ Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	S983470	01/07/2017	30/06/2018

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

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

3) Pachhtar (Composite) Limestone Mines.

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

Note:

Permissible Limit :

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

Prepared By
Atul

Page 1 of 1

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

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	18/04/N-SDC001	Date Of Report:	24/04/2018
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		

➤ Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	9983470	01/07/2017	30/06/2018

1) Gop (Composite) Limestone Mines.

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

2) Charbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
13/04/2018	Dozer D9-R	89.5	84.2	75.1
13/04/2018	Tata Hitachi Ex 200	88.3	78.5	72.7
13/04/2018	Kirlosker Compressor	88.6	75.8	71.5

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
14/04/2018	Dozer D9-R	89.1	75.7	72.2
14/04/2018	Tata Hitachi Ex 200	88.6	75.2	71.7
14/04/2018	Kirlosker Compressor	88.5	74.9	70.9
14/04/2018	Wagon Drill WD-300	89.0	74.5	71.1

Note:

Permissible Limit :

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

Prepared By

Arul

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Arul

UERL/AIR/F-20/00

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	18/05/N-SDC001	Date Of Report:	28/05/2018
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		

➤ Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	9983420	01/07/2017	30/06/2018

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

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

3) Pachhtar (Composite) Limestone Mines.

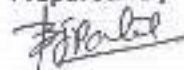
Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
19/05/2018	Pachhtar Village	55.7	35.0
20/05/2018	Pachhtar Village	56.5	35.0

Note:

Permissible Limit :

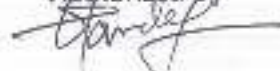
Day Time: 75> dB (A) Night Time: 70> dB (A)

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UERL/AIR/F-18/00

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	18/05/N-SDC001	Date Of Report:	28/05/2018
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		

> Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	9983420	01/07/2017	30/06/2018

1) Gop (Composite) Limestone Mines.

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

2) Chorbadi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level - dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
18/05/2018	Dozer D9-R	89.8	83.6	74.9
18/05/2018	Tata Hitachi Ex 200	88.5	78.2	73.4
18/05/2018	Kirlosker Compressor	86.2	75.4	71.2

3) Pachhtar (Composite) Limestone Mines.

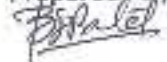
Date of Monitoring	Name of Site	Noise Level - dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
19/05/2018	Dozer D9-R	89.6	75.4	72.7
19/05/2018	Tata Hitachi Ex 200	88.5	75.3	71.6
19/05/2018	Kirlosker Compressor	88.2	73.9	71.4
19/05/2018	Wagon Drill WD - 300	89.1	74.3	71.3

Note:

Permissible Limit :

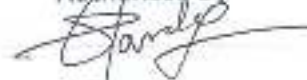
TWA (Time Weighted Average) 8 Hrs : 90 dB (A)

Prepared By



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Authorized By



UERL/AIR/F-20/00

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	18/06/N-SDC001	Date Of Report:	25/06/2018
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		

➤ Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	9983420	01/07/2017	30/06/2018

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

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

3) Pachhtar (Composite) Limestone Mines.

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

Note:

Permissible Limit :

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

Prepared By

Asad

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Harsh

UERL/AIR/F-18/00

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	18/06/N-SDC001	Date Of Report:	25/06/2018
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		

➤ Details of Instrument Used for Monitoring,

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/CSC	Sound Level Meter	9983420	01/07/2017	30/06/2018

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
15/06/2018	Dozer D9 – H	89.4	82.6	73.7
15/06/2018	Hyundai – 140	88.2	75.8	72.5
15/06/2018	Mini D.G. Set	88.5	74.3	71.3

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
15/06/2018	Dozer D8 – R	89.2	75.5	72.2
	Dozer D 355	88.9	74.6	72.5
16/06/2018	Hyundai – 130	88.9	75.1	71.3
16/06/2018	Diesel Pump	0	0	0
16/06/2018	Wagon Drill WD – 300	0	0	0

Note:

Permissible Limit :

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

Prepared By

Asad

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Authorized By

Stanley

UERL/AIR/F-20/00

Date: 28/05/2018

PACHHTAR (COMPOSITE) LIMESTONE MINES
YEARLY EXPENDITURE STATEMENT
FOR ENVIRONMENT MANAGEMENT

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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