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CHO/MoEF/HYC/A/302/1563

Date-24-Nov-18

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

Subject: Submission of Compliance Report of the conditions as laid down in the Environmental Clearance letter No.J-11015/47/2005-IA.II(M) dt 07.10.05-in respect of Chorbedi (Composite) Limestone Mines for the period April 2018 to September 2018.

Sir,

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

1. Present status of Project work progress.

- No Forestry clearance given in respect of Forest land leases. Viz Chorbedi (76.89 Ha.) , Rinjpur (42.90 Ha) and Ghunada (101.05 Ha)in forest. Possession of above Forest land leases handed over to Forest Department on 24.09.2004.
- Forest Land leases at Rinjpur and Ghunda are cancelled by Govt. of Gujarat on 10.01.2014 & 18.01.2014 respectively.
- An existing Mine in Non Forest lease area of 178.00 Hectares in village Chorbedi Survey No. 1 (Part) and 20.23 Hect. in village Chorbedi Survey No. 1 (Part) = Total Lease area are 198.23 Hecares. Production from this Mine from April 2018 to September 2018 is **184700.44 MT.**

Consolidated Consents & Authorisation has been obtaining from GPCB, Gandhinagar, Vide Order No. PC/CCA-JMN-49/ID30233/79664 dated 7 May 2011 consent order No. AWH-77637 dated 29.03.2016 valid upto 22.03.2021.

2. Point wise compliance status to various stipulations, as laid-down in Environmental Clearance letter No.J-11015/47/2005-IA.II(M) dated 07.10.2005 with supporting documents, is enclosed with the following Annexure:-

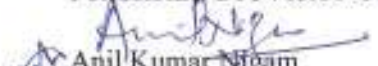
Environment Statement in Form V	:	Annexure A
Ambient Air Quality Reports	:	Annexure B
Noise Level	:	Annexure C
Environment Half Yearly Expenses Statement	:	Annexure D

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

SHREE DIGVIJAY CEMENT CO. LTD.
CHORBEDI (COMPOSITE) LIMESTONE MINE
SIX MONTHLY COMPLIANCE STATUS
April 2018 to September 2018

S. NO.	CONDITIONS	COMPLIANCE STATUS
A.	Specific Conditions	
(i)	The production capacity from this mine shall not exceed 0.9 MTPA with a capping of production of limestone to a capacity of 2.2 MTPA from all 5 Mines, namely Gop, Pachhtar, Mokhana, Chorbedi and Bhogat Limestone mines put together subject to the individual mines obtaining environmental clearance.	Complied
(ii)	No mining shall be undertaken in forest land for which forestry clearance has not been obtained.	No Forestry Clearance given for 220.84 Hectares Forest land and possession handed over to Forest Department since 24.09.2004.
(iii)	Catch drains and siltation ponds of appropriate size and check dams should be constructed to arrest silt and sediment flows from the mining operations. The drains should be regularly desilted and maintained properly. Garland drain (size, gradient & length) shall be constructed for both mine pit and for the waste dump. Sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of silt material. Sedimentation pits should be constructed at the corners of the garland drains.	Though no sediments flows from Mines, still we have constructed a check dam.
(iv)	Drills should be wet operated or with dust extractors.	We are not operating drill machine
(v)	Controlled blasting should be practiced and only between 12 Noon and 2 PM. The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.	Now the drilling & Blasting has been eliminated by the use of Ripper -Dozer and Excavator combination, an Eco-Friendly mining.
(vi)	Plantation shall be done over the lease area covering 20.95 ha, which includes a green belt of adequate width around the ML area, along roads by planting suitable native species in consultation with the local DFO/Agricultural Department. The density of trees should be around 1000 plants per hectare.	We have done year wise plantation in mines area as per mining plan. In the Year 2018-19, we have Planted 205 Nos. of saplings in lease area to develop green belt.

(vii)	A water reservoir of 6 ha shall be created from the deeper section of worked out pit. The higher benches of the void shall be terraced and plantation done to stabilize the slopes. Peripheral fencing shall be done alongwith excavated area.	A water reservoir of 6 ha. is created from the deeper section of worked out pit which helps in recharging ground water in the 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.
(ix)	Rain water harvesting measures shall be taken up in consultation with the Regional Office, CGWB to recharge and augment groundwater in the area.	For undertaking Rainwater harvesting measures we have requested guidance and expertise from Regional Director, CGWB, Ahmedabad.
(x)	A final Mine Closure Plan alongwith detail of Corpus Fund should be submitted to the Ministry of Environment and Forests 5 years in advance of final mine closure for approval.	Final Mine closure plan will be submitted in time.
(xi)	Consent to operate shall be obtained from the SPCB before expanding mining operations.	Renewal of Consolidated Consents & Authorization has been obtained from GPCB, Gandhinagar, vide Order No. PC/CCA-JMN-49/ID30233/79664 dated 7th May 2011 Consent order No.AWH-77637 dated 29.03.2016 valid up to 22.03.2021.
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.	Complied
(ii)	No change in the calendar plan including excavation, quantum of limestone and waste should be made.	Complied. However, no change is made in the calendar plans including excavations, quantum of Limestone and waste.
(iii)	Data on ambient air quality (RPM and SPM) should be regularly submitted once a year to the Ministry including its Regional Office (WZ) at Bhopal and the Gujarat State Pollution Control Board /Central Pollution Control Board once in six months.)	Data of Ambient Air Quality (RPM & SPM) are regularly submitted half yearly on 1st June and 1st December to MOEF including Regional Office (WR) Bhopal and GPCB, Gandhinagar. Data of Ambient Air Quality survey conducted during the half year period – April 18 to September 18 is enclosed as Annexure A.
(iv)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) should be provided and properly maintained.	Fugitive dust emissions from all the sources are controlled regularly. Water spraying arrangement on haul roads and mining areas is being practiced.
(v)	Adequate measures should be taken for control of noise levels in the work environment.	We are complying. Noise level Monitoring done regularly and enclosed as Annexure B

(vi)	Industrial waste water, if any, should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time.	Not applicable.
(vii)	Occupational health surveillance 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 18 to September 18 is enclosed.
(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.
(xii)	The project authorities should advertise in at least 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 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.
Chorbedi (Composite) Limestone Mine
Survey No.1 Village-Chorbedi
Taluka- Lalpur, Distt. - Jamnagar
(Gujarat)
2. Industry Category :
Primary: (STC Code) Mining Industry
Secondary: (SIC Code)
3. Production Capacity : 0.9 million TPA
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)	:	2 KL
Dust Suppression	:	4.9 KL
Plantation	:	0.55 KL

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

	Name of products	Process water consumption per unit of product	
		During 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 current financial year 2016-17	During the current financial year 2017-18
1.	Explosives	Limestone	0	0
2	Ammonium nitrate		0	0
3	Detonating Fuse		0	0
4	Safety Fuse		0	0
5	Detonator		0	0
6	Cord Relays		0	0
7	HSD - L/ Ton		70654.25 L/0.416	0.35
10	Lubricant oil - L/ Ton		2386 L/0.014	0.01
11	Grease – Kg/Ton		300 Kg/0.001	0.001

PART – C

Pollution discharged to Environment/unit of output

(Parameter as specified in the consent issued)

	Pollutants	Qty. of pollutants discharged (Kg/Day)	Concentration of pollutants in discharges (Mg/Nm ³)	Percentage of variation from prescribed standard with reasons
(a)	Water	NIL		
(b)	Air	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/M3	24 hours Annual	100 60	100 60
SO ₂ in Microgram/M3	24 hours Annual	80 50	80 20
NO _x in Microgram/M3	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	During the current Financial Year
(a)	From Process (Used Oil from Machines)	80 Liters	80 Liters
(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 contemplated for reducing dust in mines.

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

PART - I

Any other particulars for improving the quality of the environment

Following are various measures taken by us:-

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

Date: 26th May 2018

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

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

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC001	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/001	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	13/04/2018	Date of Testing	15/04/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Chorbedi Mines (Near Chorbedi Mines - 1)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FP5/07	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	1.25
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	24.12		
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	85	58	80	75	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	235	92	173	167	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	27	12	22	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	15.2	9.5	13.7	12.8	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	26.5	15.8	23.1	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:

(Signature)
(Chemist)/(Supervisor)

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

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

C.A.R.P.
UERL/AIR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC002	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/002	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	13/04/2018	Date of Testing	15/04/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Chorbedi Mines (Loading Site)		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2018	31/03/2019
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 _{2.5}	m ³ /min	1.26	1.27	1.28
2.	Volume of Air Sampled for PM ₁₀	m ³	605	610	614
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	128	55	76	86	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	310	88	204	201	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	34	18	27	26	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	19.3	13.5	17.1	16.6	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	26.4	16.2	20.7	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)

(C.A.R.P.)

Page No.: 1 of 1

Tested By:

(Signature)

(Chemist)/(Sr. Chemist)

(M.C.E.)

Authorized By:

(Signature)

(Manager - Operations)

(S.S.)

UERL/AIR/F-05/02

MoEF&CC (GDI) Recognized Environmental Laboratory under the EPA-1986 (2.01.2015 to 17.01.2020)

ISO 9001:2015 Certified Organization

CPCB Recognized Environmental Auditor (Schedule 10-11)

ISO 14001:2015 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC003	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/003	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 351140, Jamnagar (Gujarat)		
Dates of Sampling	14/04/2018	Date of Testing	16/04/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Chorbedi Mines (Near Chorbedi Mines - 1)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 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	1.24	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	595	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	112	62	95	90	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	342	107	168	206	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	37	17	28	26	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	18.6	12.2	15.8	15.5	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	34.1	20.7	26.3	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:

(Signature)

(Chemist)/(Supervisor)

C.A.R.P.

Page No.: 1 of 1

Tested By:

(Signature)

(Chemist)/(Sr. Chemist)

(N.P.P.)

Authorized By:

(Signature)

(Manager - Operations)

(S-1-1)

UERL/AIR/F-05/02

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/04/A-SDC004	Report Issue Date:	24/04/2018
Sample ID No.	UERL/AIR/ID/A-18/04/004	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	Chorbedi Mines (Loading Site)		

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2018	31/03/2019
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	1.28	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	24.06		
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	144	60	79	94	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	385	118	173	225	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	35	21	25	27	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	16.3	14.8	19.5	16.8	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	27.1	19.5	22.7	23.1	80	IS - 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	By using Gas Analyzer

Note: BDL: Below Detection Limit.

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

Sampling Done By:

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

Page No.: 1 of 1

Tested By:

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

Authorized By:

Ch. P. P.
(Manager - Operations)

UERL/AIR/F-05/02

MoEF&CC (G.O.) Recognized Environment
Laboratory under the EPA-1986(12.01.2015 to 11.01.2020)

QC-NABL Accredited QA
Consultant Organization

CPCB Recognized Environmental
Auditor (Schedule - II)

ISO 9001:2007
Certified Company

ISO 9001:2015
Certified Company

TEST REPORT

{AMBIENT AIR MONITORING}

Test Report No.	UERL/18/05/A-SDC001	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/001	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	18/05/2018	Date of Testing	20/05/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Chorbedi Mines (Near Chorbedi Mines - 1)		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 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	1.26
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	24.08		
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	95	61	86	81	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	272	98	195	188	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	30	15	24	23	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	18.5	11.2	16.7	15.4	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	29.3	17.1	25.2	23.8	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)

C.B.-J.P.

Page No.: 1 of 1

Tested By:

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

Authorized By:

[Signature]
(Manager - Operations)

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

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-SDC002	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/002	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	18/05/2018	Date of Testing	20/05/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Chorbedi Mines (Loading Site)		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2018	31/03/2019
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	1.25	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	24.12		
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%

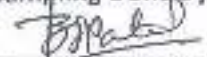
➤ Test Parameter Results

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	64	81	93	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	352	95	227	225	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	35	21	30	29	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	22.6	16.8	20.4	19.9	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	30.1	18.5	25.2	24.6	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:

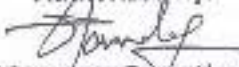

(Chemist)/(Supervisor)
(B-21)

Page No.: 1 of 1

Tested By:


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

Authorized By:


(Manager - Operations)
(I-22)
UERL/AIR/F-05/02

ISO 9001:2015 Recognized Environmental Laboratory under the EPA 1986/2015 to 11.01.2020

QCMARIT Accredited QA Consultant Organization

CPCB Recognized Environmental Auditor (Schedule-I)

ISO 9001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-SDC003	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/003	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	Chorbedi Mines (Near Chorbedi Mines - 1)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 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	1.28
2.	Volume of Air Sampled for PM ₁₀	m ³	600	610	614
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	117	58	89	88	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	355	110	172	212	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	34	18	29	27	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	20.8	15.3	18.5	18.2	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	32.6	18.7	27.2	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)
(B. J. P.)

Page No.: 1 of 1

Tested By:

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

Authorized By:

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

MoEP&CC (G.O.) Recognized Environmental
Laboratory under the EPA-1986/2015 to 11.01.2009

GCI-NABET Accredited QA
Consultant Organization

CPCB Recognized Environmental
Analytical (Schedule-II)

ISO 9001:2007
Certified Company

ISO 9001:2015
Certified Company

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/05/A-SDC004	Report Issue Date:	28/05/2018
Sample ID No.	UERL/AIR/ID/A-18/05/004	Work Order No.	4500035950
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	Chorbedi Mines (Loading 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	01/04/2018	31/03/2019
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	1.28
2.	Volume of Air Sampled for PM ₁₀	m ³	605	610	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	147	61	84	97	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	398	125	227	250	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	36	19	29	28	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	22.7	15.3	20.1	19.3	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	31.8	20.5	27.4	26.5	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. D)

Page No.: 1 of 1

Tested By:

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

Authorized By:

[Signature]
(Manager - Operations)

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

ISO/IEC 17025 (G-01) Recognized Environmental
Laboratory under the EPA-1986 (2.01.2015 to 11.01.2020)

ISO/IEC 17025 (G-01) Recognized Environmental
Laboratory under the EPA-1986 (2.01.2015 to 11.01.2020)

ISO/IEC 17025 (G-01) Recognized Environmental
Laboratory under the EPA-1986 (2.01.2015 to 11.01.2020)

ISO/IEC 17025 (G-01) Recognized Environmental
Laboratory under the EPA-1986 (2.01.2015 to 11.01.2020)

ISO/IEC 17025 (G-01) Recognized Environmental
Laboratory under the EPA-1986 (2.01.2015 to 11.01.2020)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/18/06/A-SDC001	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/ID/A-18/06/001	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	15/06/2018	Date of Testing	17/06/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Chorbedi Mines (Near Chorbedi Mines - 1)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTF-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	24.10		
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	87	56	75	73	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	247	75	162	161	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	27	13	21	20	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	15.3	9.5	12.8	15.4	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	24.7	15.6	20.2	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:

Acad
(Chemist)/(Supervisor)
(A.S.)

Page No.: 1 of 1

Tested By:

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

Authorized By:

Shankar
(Manager - Operations)

(J-2-1)
UERL/AIR/F-05/02

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/06/A-SDC002	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/ID/A-18/06/002	Work Order No.	4500035960
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram - 361140, Jamnagar (Gujarat)		
Dates of Sampling	15/06/2018	Date of Testing	17/06/2018
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	Chorbedi Mines (Loading Site)		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/23	Respirable Dust Sampler	2943-DTB, 1038-DTC-2012	01/04/2018	31/03/2019
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	1.27	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	24.17		
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	108	52	74	78	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	315	86	198	200	--	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	30	15	24	23	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	19.7	12.1	16.5	16.1	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	26.8	15.4	21.4	21.2	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)

Page No.: 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

(2-27)
UERL/AIR/F-05/02

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

GCNABET Accredited BA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

OHSAS18001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	UERL/18/06/A-SDC003	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/ID/A-18/06/003	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	Chorbedi Mines (Near Chorbedi Mines - 1)		

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/11	Respirable Dust Sampler	1851-DTK, 4134-DTJ-2010	25/10/2017	24/10/2018
UERL/AIR/FP5/07	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	1.25	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	24.07		
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	48	78	74	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	321	96	154	190	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	28	14	21	21	60	CPCB Manual Volume 1
4.	Sulphur Dioxide	µg/m ³	19.3	12.5	15.8	15.8	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	27.4	15.6	23.5	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:

Arvind
(Chemist)/(Supervisor)

Page No.: 1 of 1

Tested By:

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

Authorized By:

Arvind
(Manager - Operations)

(3-5-7)
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 QA 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/18/06/A-SDC004	Report Issue Date:	25/06/2018
Sample ID No.	UERL/AIR/ID/A-18/06/DD4	Work Order No.	4500035950
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	Chorbedi Mines (Loading Site)		

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Call. Date	Next Cali. Date
UERL/AIR/RD5/23	Respirable Dust Sampler	2343-DTB, 1038-DTC-2012	01/04/2018	31/03/2019
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	1.26
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	24.14		
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	128	54	79	87	100	IS - 5182, Part - 23
2.	SPM	µg/m ³	353	118	205	225	—	IS - 5182, Part - 23
3.	PM _{2.5}	µg/m ³	31	15	23	23	60	CPCB Manual Volume I
4.	Sulphur Dioxide	µg/m ³	20.5	13.8	18.7	17.6	80	IS - 5182, Part - 2
5.	Nitrogen Dioxide	µg/m ³	28.3	16.6	24.2	23.0	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:

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

Page No.: 1 of 1

Tested By:

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

Authorized By:

P. C. P.
(Manager - Operations)

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

AMBIENT NOISE LEVEL MONITORING REPORT

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

➤ Details of Instrument Used for Monitoring.

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

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

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

3) Pachhtar (Composite) Limestone Mines.

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

Note:

Permissible Limit :

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

Prepared By
Atul

Page 1 of 1

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

WORK PLACE NOISE LEVEL MONITORING REPORT

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

➤ Details of Instrument Used for Monitoring.

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

1) Gop (Composite) Limestone Mines.

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

2) Charbedi (Composite) Limestone Mines.

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

3) Pachhtar (Composite) Limestone Mines.

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

Note:

Permissible Limit :

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

Prepared By

Arul

Page 1 of 1

Authorized By

Arul

UERL/AIR/F-20/00

AMBIENT NOISE LEVEL MONITORING REPORT

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

➤ Details of Instrument Used for Monitoring.

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

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

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

3) Pachhtar (Composite) Limestone Mines.

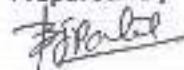
Date of Monitoring	Name of Site	Noise Level - dB (A)	
		Day Time	Night Time
19/05/2018	Pachhtar Village	55.7	35.0
20/05/2018	Pachhtar Village	56.5	35.0

Note:

Permissible Limit :

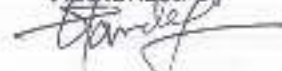
Day Time: 75> dB (A) Night Time: 70> dB (A)

Prepared By



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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.

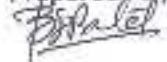
Date of Monitoring	Name of Site	Noise Level - dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
19/05/2018	Dozer D9-R	89.6	75.4	72.7
19/05/2018	Tata Hitachi Ex 200	88.5	75.3	71.6
19/05/2018	Kirlosker Compressor	88.2	73.9	71.4
19/05/2018	Wagon Drill WD - 300	89.1	74.3	71.3

Note:

Permissible Limit :

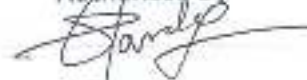
TWA (Time Weighted Average) 8 Hrs : 90 dB (A)

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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Authorized By

Harsh

UERL/AIR/F-18/00

WORK PLACE NOISE LEVEL MONITORING REPORT

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

➤ Details of Instrument Used for Monitoring,

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/OSC	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

CHORBEDI (COMPOSITE) LIMESTONE MINES
7 YEARLY EXPENDITURE STATEMENT
FOR ENVIRONMENT MANAGEMENT

S.No.	WORK	AMOUNT IN Rs.
1	Ambient Air & Noise Monitoring	216000
2	Water Sprinkling on haul roads	120275
3	Purchasing of Sapling	1000
4	Purchasing of Soil	0
5	Recurring Expenses for Security and Maintenance of Plantation	98000
6	Maintenance of fencing	2500
	Total	437775

Signature



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