



By Email

CHO/MoEF/HYC/A/302/1888

Date-30-Nov-19

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

Subject: Submission of 6 Monthly Compliance Report of the conditions as laid down in the Environmental Clearance letter No J-11015/47/2005-IA.II (M), dated 07/10/2005, in respect of **Chorbedi (Composite) Limestone Mines**, pertaining to Shree Digvijay Cement Co Ltd for the Period of **April-19 to September 19**.

Respected Sir/Madam,

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

1. No Forestry clearance given in respect of Forest land leases. Viz Chorbedi (76.89 Ha.), Rinjpur (42.90 Ha) and Ghunada (101.05 Ha) and Possession of above Forest land leases handed over to Forest Department on 24.09.2004.
2. Forest Land leases at Rinjpur and Ghunda are cancelled by Govt. of Gujarat on 10.01.2014 & 18.01.2014 respectively.
3. 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 Hectares
4. Production from this Mine from **April 19 to September 19** is **153650.87 MT**.
5. 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.

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.**


Shyam Narayan Singh
Manager (Mines)

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

FORM V**Environment Audit Report for the period of 2018-19****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 : 26.05.2018

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

Process	:	0
Cooling	:	0
Domestic (Drinking)	:	2.00 KL
Dust Suppression	:	4.98 KL
Plantation	:	0.62 KL

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

	Name of products	Process water consumption per unit of product	
		During the previous year	During the current Year
	LIMESTONE	Not Applicable	Not Applicable

(ii) Raw material consumption

S. No.	Name of raw materials	Name of Products	Consumption of raw material per unit of output	
			During the previous year	During the current Year
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		0.347	0.469
10	Lubricant oil - L/ Ton		0.008	0.008
11	Grease - Kg/Ton		0.001	0.002

PART – C

Pollution discharged to Environment/unit of output
(Parameter as specified in the consent issued)

	Pollutants	Qty. of pollutants discharged (Kg/Day)	Concentration of pollutants in discharges (Mg/Nm ³)	Percentage of variation from prescribed standard with reasons
(a)	Water	NIL		
(b)	Air	Annexure Enclosed		
		--	--	--

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

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

PART – D

Hazardous Wastes

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

	Hazardous Wastes	Total Quantity (Kg.)	
		During the previous year	During the current Year
(a)	From Process (Used Oil from Machines)	0.080	0.110
(b)	From pollution control facilities		

PART – E

(Solid Wastes)

		Total Quantity	
		During the previous year	During the current 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: 24.05.2019



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

Name: Shyam Narayan Singh

Designation: Manager (Mines)

Address: Gop Mines Colony, Moti
Gop, Distt. – Jamnagar -
Gujarat

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

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.	Production during Apr-19 to Sep-19 is 153650.87 MT from Chorbedi (Composite) Limestone Mine. 04 Mines viz. Gop, Chorbedi, Pachhtar and Mokhana Mines have obtained EC individually as detailed below: Gop Mines – J-11015/47/2005-IA.II (M) dated 7th October 2005. Chorbedi Mines – J-11015/47/2005-IA.II (M) dated 7th October 2005. Pachhtar Mines - J-11015/49/2005-IA.II (M) dated 7th October 2005. Mokhana Mines - J-11015/48/2005-IA.II (M) dated 7th October 2005. Production of all 05 Limestone Mines during Apr-19 to Sep-19 and its capacities are as under- <table border="1"> <thead> <tr> <th>Name of Mine</th><th>EC Capacity in Million Tons</th><th>Production in Million Tons</th></tr> </thead> <tbody> <tr> <td>Gop</td><td>0.25</td><td>0.00</td></tr> <tr> <td>Pachhtar</td><td>1.00</td><td>0.269</td></tr> <tr> <td>Chorbedi</td><td>0.90</td><td>0.154</td></tr> <tr> <td>Mokhana</td><td>0.70</td><td>0.00</td></tr> <tr> <td>Bhogat</td><td>EC not granted</td><td>0.00</td></tr> </tbody> </table> Mokhana Mines: Whole lease area of Mokhana Mines was under Forest Land for which Possession taken over by Forest Department on 07.08.2004. The operations were stopped since 05.08.2004. Bhogat Mines: The area covered under CRZ and EC for this mine is rejected vide MoEF letter 09.10.2006. There is no production from Bhogat Mines Since 21.10.2004.	Name of Mine	EC Capacity in Million Tons	Production in Million Tons	Gop	0.25	0.00	Pachhtar	1.00	0.269	Chorbedi	0.90	0.154	Mokhana	0.70	0.00	Bhogat	EC not granted	0.00
Name of Mine	EC Capacity in Million Tons	Production in Million Tons																		
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Chorbedi	0.90	0.154																		
Mokhana	0.70	0.00																		
Bhogat	EC not granted	0.00																		
(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. No Mining is undertaken within the Forest Area since then.																		
(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	The Chorbedi Mines area in water scarce due to less Rainfall. Hence the rainwater is accumulated in the mines pits which in turn help to maintain ground water availability in surrounding area to meet Agricultural water demand for good crop. Therefore, Garland drains are not required. Rain water catchment areas of Chorbedi Mining Leases are comprised of slope of small hillocks, so the water inflow naturally into mine pit. Hence catch drains are also not required. This inflow of water is trapped by excavated pits within the lease area, which prevents outflow of silt and siltation from the Mining lease area. Area of excavated pit is so large that so far, no incidence of overflow of rain water and sediment from mined out pits of the mines has been observed.																		

S. NO.	CONDITIONS	COMPLIANCE STATUS																
	retention period to allow proper setting of silt material. Sedimentation pits should be constructed at the corners of the garland drains.	Furthermore, percolation of rainwater into strata creates space to absorb inflow of new rainwater. This percolation of water recharges ground water table of area around Mines. However, when any additional need arises to build Check Dam/ Catch drain/ Garland drain/ Siltation pond to divert or channelize rain water/ sediments into desired mined out pit, such work will be undertaken by us.																
(iv)	Drills should be wet operated or with dust extractors.	Drill machines are not in operation.																
(v)	Controlled blasting should be practiced 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.	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.	Plantation as per EC condition is under progress & required area will be afforested during life of mine. We are now planting around 2000 saplings per year and made proper arrangements of after care of plants. At present plantation area is 5.35 hectares at the end of March 2019. 0.80 Hectares area covered under plantation in the year 2019-20. We have done year wise plantation in mines area as per mining plan. A table with year wise plantation details is given below: <table><tr><th>Year Nos. of</th><th>Proposed Plantation</th><th>Nos of Saplings planted</th><th>Area (in Ha)</th></tr><tr><td>Upto 2018-19</td><td>3000</td><td>5880</td><td>5.35</td></tr><tr><td>2019-20</td><td>800</td><td>1100</td><td>0.80</td></tr><tr><td>Total</td><td>3800</td><td>6980</td><td>6.15</td></tr></table> The species are selected as per recommendations of the Social Forestry division of the Forest Department at Taluka Lalpur, District Jamnagar. Saplings are also purchased from their Nursery.	Year Nos. of	Proposed Plantation	Nos of Saplings planted	Area (in Ha)	Upto 2018-19	3000	5880	5.35	2019-20	800	1100	0.80	Total	3800	6980	6.15
Year Nos. of	Proposed Plantation	Nos of Saplings planted	Area (in Ha)															
Upto 2018-19	3000	5880	5.35															
2019-20	800	1100	0.80															
Total	3800	6980	6.15															
(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. (Size – 400m X 150m) is created from the deeper section of worked out pit which helps in recharging ground water in the area. Terracing of Benches is being done. Planation at bench and fencing shall be created around the reservoir on maturity of mining operations; during final closure of the mining in 2033.																
(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.	Ground Water is not encountered during mining operations. The Limestone thickness in the area is 4-10 mtrs from GL, whereas the Water table lies about 12-20 mtrs BGL so there is no possibility of 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.	A study from reputed consultant and ex Director of CGWB is carried out for systematic Rain Water Harvesting in Chorbedi Mines. The report with proposals is submitted to Regional Office, CGWB, Ahmedabad along with application for Ground Water abstraction. As per proposal old mine pits are created which serves as recharge ponds. Additionally Circular pits in plantation area are also being made. Artificial Recharge structure at																

S. NO.	CONDITIONS	COMPLIANCE STATUS														
		proposed Mines Office shall also be taken up once approval from CGWB, Ahmedabad is granted.														
(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.	The validity of Mining Lease is up to 06.11.2033. Balance life of Mine is envisaged as 15 Years @ present rate of production. So Final Closure is anticipated by 2033; accordingly, Final Mine Closure plan will be submitted by 2028 i.e. before 5 years of anticipated closure.														
(xi)	Consent to operate shall be obtained from the SPCB before expanding mining operations.	CTO and subsequent Renewal of Consolidated Consents & Authorization has been obtained from GPCB, Gandhinagar, vide Order No. PC/CAJMN-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.	There is no change in mining technology and scope of working.														
(ii)	No change in the calendar plan including excavation, quantum of limestone and waste should be made.	<table><tr><td>Year</td><td>Mineral</td><td>Proposed Production as per approved Mining Plan in MT</td><td>Actual Production in MT</td><td>Remarks</td></tr><tr><td>2019-20</td><td>Limestone</td><td>400000</td><td>153650.87</td><td></td></tr></table>					Year	Mineral	Proposed Production as per approved Mining Plan in MT	Actual Production in MT	Remarks	2019-20	Limestone	400000	153650.87	
Year	Mineral	Proposed Production as per approved Mining Plan in MT	Actual Production in MT	Remarks												
2019-20	Limestone	400000	153650.87													
(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 to MOEF including Regional Office (WR) Bhopal and GPCB, Gandhinagar. Data of Ambient Air Quality survey conducted during the half year period –April 19 to Sep 19 is enclosed as 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 areas is being practiced.														
(v)	Adequate measures should be taken for control of noise levels in the work environment.	Regularly monitoring the noise level being done by a NABL accredited Lab. Data of Noise level is given below Copy 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.														

S. NO.	CONDITIONS	COMPLIANCE STATUS																					
(vii)	Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance program of the workers is being taken periodically to observe any contractions due to exposure to dust. Initial (IME) and Periodical Medical Examination (PME) of all the work persons is done at statutory intervals. Initial / Periodical Medical Examination is being carried out for following parameters as per Form O under rule 29 B of Mines Rules 1955 for all employees General Development: Height, Weight, Eye, Ears, Respiratory System, Circulatory System, Nervous System, Locomotor System, Hydrocele Any other abnormality. Urine, Skiagram of Chest, Cardiological Assessment, Neurological Assessment, ILO-Chest Radiograph, Spirometry, Audiometry, Pathological Test (Blood Sugar – Fasting & Post Prandial) So far not a single case is detected for dust borne disease.																					
(viii)	The funds earmarked For environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to this Ministry's Regional Office located at Bhopal (WZ).	The funds earmarked for environmental protection measures is kept in separate account and not diverted for other purpose. Expenditure for environmental protection measures is given below: Last 6 years Recurring yearly data is as under: <table border="1"> <thead> <tr> <th>S.No.</th><th>Year</th><th>Recurring Yearly Expenditure</th></tr> </thead> <tbody> <tr> <td>1</td><td>2013-14</td><td>303784</td></tr> <tr> <td>2</td><td>2014-15</td><td>340882</td></tr> <tr> <td>3</td><td>2015-16</td><td>356060</td></tr> <tr> <td>4</td><td>2016-17</td><td>311700</td></tr> <tr> <td>5</td><td>2017-18</td><td>437775</td></tr> <tr> <td>6</td><td>2018-19</td><td>472097</td></tr> </tbody> </table> Expenditure for environmental protection measures for the period is enclosed as Annexure D.	S.No.	Year	Recurring Yearly Expenditure	1	2013-14	303784	2	2014-15	340882	3	2015-16	356060	4	2016-17	311700	5	2017-18	437775	6	2018-19	472097
S.No.	Year	Recurring Yearly Expenditure																					
1	2013-14	303784																					
2	2014-15	340882																					
3	2015-16	356060																					
4	2016-17	311700																					
5	2017-18	437775																					
6	2018-19	472097																					
(ix)	The Regional Office (WZ) of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office (s) of the Regional Office by furnishing the requisite data / information/ monitoring reports.	We are submitting six monthly compliance report along with annexures to the MoEF Regional Office Bhopal and GPCB. Full co-operation is being extended to the authorities/officials by providing data/information/monitoring report etc.																					
(x)	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom and suggestion / representation has been received while processing the proposal.	Copy of clearance letter was handed over to all concerned Panchayat.																					
(xi)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days and provide copies of the same to anyone requesting for the same.	SPCB displayed the copy of EC as per procedure.																					
(xii)	The project authorities should advertise 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	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																					

S. NO.	CONDITIONS	COMPLIANCE STATUS
	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 .	(2) Phoolchhab – Rajkot edition.

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

QCI-NABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

OHSAS18001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	URA/19/04/A-SDC001	Report Issue Date:	13/04/2019
Sample ID No.	URA/ID/A-19/04/001	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	05/04/2019	Date of Testing	08/04/2019
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	25/10/2018	24/10/2019
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-2010	01/09/2018	31/08/2019

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.25	1.23	1.24
2.	Volume of Air Sampled for PM ₁₀	m ³	600	590	595
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.05		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

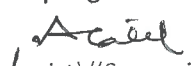
➤ Test Parameter Results

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	117	65	53	78	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	285	137	114	179	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	38	20	19	26	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	19.2	7.8	22.1	16.3	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	29.5	19.5	14.7	21.2	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

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

Sampling Done By:


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

Page No.: 1 of 1

Tested By:


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

Authorized By:


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

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

QC/NABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

OHSAS18001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/04/A-SDC002	Report Issue Date:	13/04/2019
Sample ID No.	URA/ID/A-19/04/002	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	05/04/2019	Date of Testing	08/04/2019
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	01/04/2019	31/03/2020
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/09/2018	31/08/2019

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

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.28	1.25	1.22
2.	Volume of Air Sampled for PM ₁₀	m ³	614	600	858
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.05		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	110	69	61	80	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	274	152	137	188	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	35	22	17	25	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	20.8	11.8	25.7	19.4	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	31.4	23.7	15.4	23.5	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

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

Sampling Done By:

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

Page No.: 1 of 1

Tested By:

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

Authorized By:

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

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/04/A-SDC003	Report Issue Date:	13/04/2019
Sample ID No.	URA/ID/A-19/04/003	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	06/04/2019	Date of Testing	08/04/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	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	25/10/2018	24/10/2019
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-2010	01/09/2018	31/08/2019

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

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.23	1.23	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	590	590	610
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.05		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

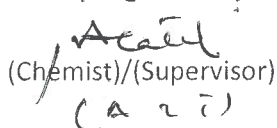
➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	128	75	62	88	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	336	146	118	200	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	39	24	20	28	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	22.7	15.8	23.1	20.5	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	23.1	19.2	12.4	18.2	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

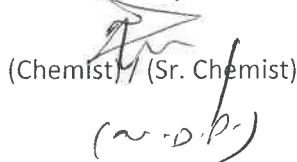
Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification – 2009, mention all parameter are within Specify Norms.

Sampling Done By:

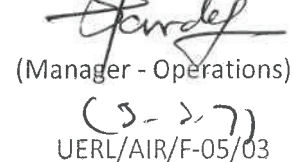

(Chemist)/(Supervisor)
(C-27)

Page No.: 1 of 1

Tested By:


(Chemist) / (Sr. Chemist)
(C-27)

Authorized By:


(Manager - Operations)
(C-27)
UERL/AIR/F-05/03

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/04/A-SDC004	Report Issue Date:	13/04/2019
Sample ID No.	URA/ID/A-19/04/004	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	06/04/2019	Date of Testing	08/04/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	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	01/04/2019	31/03/2020
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/09/2018	31/08/2019

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

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.27	1.24	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	610	590	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.05		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	112	78	53	81	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	316	168	137	207	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	28	20	27	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	21.7	15.2	28.5	21.8	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	25.2	18.7	13.5	19.1	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

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

Sampling Done By:

A. Patel
(Chemist)/(Supervisor)

Page No.: 1 of 1

Tested By:

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

(Signature)

Authorized By:

(Signature)
(Manager - Operations)

(Signature)
UERL/AIR/F-05/03

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/05/A-SDC001	Report Issue Date:	31/05/2019
Sample ID No.	URA/ID/A-19/05/001	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	24/05/2019	Date of Testing	27/05/2019
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	25/10/2018	24/10/2019
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-2010	01/09/2018	31/08/2019

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

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.23	1.22	1.21
2.	Volume of Air Sampled for PM ₁₀	m ³	590	585	580
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	102	83	80	88	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	375	222	175	257	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	34	22	21	25	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	20.6	14.7	16.2	17.2	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	25.7	21.5	18.0	21.7	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

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

Sampling Done By:

A. Patel
(Chemist)/(Supervisor)

Page No.: 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

UERL/AIR/F-05/03

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/05/A-SDC002	Report Issue Date:	31/05/2019
Sample ID No.	URA/ID/A-19/05/002	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	24/05/2019	Date of Testing	27/05/2019
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	01/04/2019	31/03/2020
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/09/2018	31/08/2019

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

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.25	1.23	1.21
2.	Volume of Air Sampled for PM ₁₀	m ³	600	590	580
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

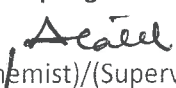
➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	112	87	76	91	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	235	184	158	192	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	30	27	21	26	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	17.2	14.5	16.1	15.9	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	28.2	20.5	19.6	22.7	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

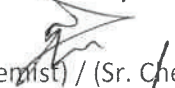
Remark: As per NAAQMS (National Ambient Air Quality Monitoring Standard) Notification – 2009, mention all parameter are within Specify Norms.

Sampling Done By:


(Chemist)/(Supervisor)

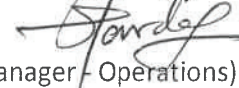
Page No.: 1 of 1

Tested By:


(Chemist) / (Sr. Chemist)

(~.D.P.)

Authorized By:


(Manager - Operations)

C.S.-11
UERL/AIR/F-05/03

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/05/A-SDC003	Report Issue Date:	31/05/2019
Sample ID No.	URA/ID/A-19/05/003	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	25/05/2019	Date of Testing	27/05/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	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	25/10/2018	24/10/2019
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-2010	01/09/2018	31/08/2019

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

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.27	1.25	1.23
2.	Volume of Air Sampled for PM ₁₀	m ³	609	600	590
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	105	80	83	89	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	307	137	120	188	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	33	25	22	26	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	17.2	14.6	20.16	17.3	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	20.5	17.6	15.7	17.9	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

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

Sampling Done By:

(Signature)
(Chemist)/(Supervisor)

(2-1)
Page No.: 1 of 1

Tested By:

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

(M.D.P.)

Authorized By:

(Signature)
(Manager - Operations)

(5-2)
UERL/AIR/F-05/03

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Consultant Organization

GPCB Recognized Environmental
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ISO 9001:2015
Certified Company

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/05/A-SDC004	Report Issue Date:	31/05/2019
Sample ID No.	URA/ID/A-19/05/004	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	25/05/2019	Date of Testing	27/05/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	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	01/04/2019	31/03/2020
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/09/2018	31/08/2019

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

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.28	1.25	1.24
2.	Volume of Air Sampled for PM ₁₀	m ³	614	600	6595
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	99	82	68	83	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	289	195	147	210	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	27	21	19	22	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	18.5	17.4	23.7	19.8	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	27.5	22.4	19.9	23.2	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

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

Sampling Done By:

(Signature)
(Chemist)/(Supervisor)

Page No.: 1 of 1

Tested By:

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

(M.D.B.)

Authorized By:

(Signature)
(Manager - Operations)

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

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/06/A-SDC001	Report Issue Date:	29/06/2019
Sample ID No.	URA/ID/A-19/06/001	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	20/06/2019	Date of Testing	22/06/2019
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	25/10/2018	24/10/2019
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-2010	01/09/2018	31/08/2019

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

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.25	1.27	1.26
2.	Volume of Air Sampled for PM ₁₀	m ³	600	610	604
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	119	95	74	96	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	335	268	152	252	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	38	29	18	28	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	23.5	18.2	19.4	20.3	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	29.3	18.5	15.2	21.0	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

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

Sampling Done By:

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

Page No.: 1 of 1

Tested By:

[Signature]
(Chemist) / (Sr. Chemist)
(M. P. B.)

Authorized By:

[Signature]
(Manager / Operations)
(J. S. J.)
UERL/AIR/F-05/03

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Consultant Organization

GPCB Recognized Environmental
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ISO 9001:2015
Certified Company

TEST REPORT (AMBIENT AIR MONITORING)

Test Report No.	URA/19/06/A-SDC002	Report Issue Date:	29/06/2019
Sample ID No.	URA/ID/A-19/06/002	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	20/06/2019	Date of Testing	22/06/2019
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	01/04/2019	31/03/2020
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/09/2018	31/08/2019

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.28	1.25	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	614	600	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

➤ Test Parameter Results

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	120	82	84	95	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	287	143	175	202	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	35	24	22	27	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	26.4	19.2	23.4	23.0	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	32.1	25.4	17.3	24.9	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

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

Sampling Done By:

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

Page No.: 1 of 1

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)
(A.C.I.)

Authorized By:

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

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/06/A-SDC003	Report Issue Date:	29/06/2019
Sample ID No.	URA/ID/A-19/06/003	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	21/06/2019	Date of Testing	24/06/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	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	25/10/2018	24/10/2019
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-2010	01/09/2018	31/08/2019

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

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.26	1.23	1.27
2.	Volume of Air Sampled for PM ₁₀	m ³	604	590	610
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	115	87	75	92	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	345	183	141	223	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	37	29	25	30	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	27.4	18.7	23.4	23.1	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	35.1	20.4	21.5	25.6	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

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

Sampling Done By:

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

Page No.: 1 of 1

Tested By:

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

Authorized By:

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

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TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.	URA/19/06/A-SDC004	Report Issue Date:	29/06/2019
Sample ID No.	URA/ID/A-19/06/004	Work Order No.	4500039463
Name & Add. of Customer	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		
Dates of Sampling	21/06/2019	Date of Testing	24/06/2019
Sampling Procedure:	CPCB Guideline		
Location of Sampling / Monitoring	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	01/04/2019	31/03/2020
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/09/2018	31/08/2019

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

Sr. No.	Description	Unit of measurement	8 Hours Observation Reading		
			1 st	2 nd	3 rd
1.	Flow Rate of PM ₁₀	m ³ /min	1.29	1.26	1.25
2.	Volume of Air Sampled for PM ₁₀	m ³	619	604	600
3.	Volume of Air Sampled for PM _{2.5} (24 Hrs.)	m ³	24.04		
4.	Flow Rate for Gas	L/min	0.2	0.2	0.2
5.	Volume of Air Sample for Gas	L	288	288	288

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

➤ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	8 Hours Monitoring Result			Average (24 Hours)	Specific Value	Test Method
			1 st	2 nd	3 rd			
1.	PM ₁₀	µg/m ³	108	90	73	90	100	IS – 5182, Part - 23
2.	SPM	µg/m ³	318	224	162	235	--	IS – 5182, Part - 23
3.	PM _{2.5}	µg/m ³	32	25	23	27	60	UERL/AIR/SOP/11
4.	Sulphur Dioxide	µg/m ³	24.3	19.5	20.1	21.3	80	IS – 5182, Part – 2
5.	Nitrogen Dioxide	µg/m ³	34.2	23.7	27.4	28.4	80	IS – 5182, Part - 6
6.	Carbon Monoxide	mg/m ³	BDL	BDL	BDL	BDL	2.0	IS – 5182, Part – 10

Note: BDL: Below Detection Limit.

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

Sampling Done By:

(Signature)
(Chemist)/(Supervisor)

Page No.: 1 of 1

Tested By:

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

Authorized By:

(Signature)
(Manager - Operations)

(Signature)
UERL/AIR/F-05/03

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Consultant Organization

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Certified Company

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/04/AN-SDC001	Date Of Report:	13/04/2019
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		

➤ Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	9983420	01/07/2018	30/06/2019

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

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

3) Pachhtar (Composite) Limestone Mines.

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

Note:

Permissible Limit :

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

Prepared By

A. Patel

Page 1 of 1

Authorized By

Hardy

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WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/04/WN-SDC001	Date Of Report:	13/04/2019
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		

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

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	9983420	01/07/2018	30/06/2019

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

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

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

Date of Monitoring	Name of Site	Noise Level – dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
05/04/2019	Dozer D9 – N	87.2	81.5	75.1
05/04/2019	Hyundai – 140	89.5	83.2	73.8
05/04/2019	Mini D.G. Set	88.4	81.9	74.4

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

Date of Monitoring	Name of Site	Noise Level – dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
06/04/2019	Dozer D8 – R	89.3	82.3	74.6
	Dozer D 355	88.5	81.7	74.2
06/04/2019	Hyundai – 130	89.1	81.2	74.9

Note:

Permissible Limit :

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

Prepared By

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UERL/AIR/F-20/01

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/05/AN-SDC001	Date Of Report:	31/05/2019
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		

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

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	9983420	01/07/2018	30/06/2019

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

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

3) Pachhtar (Composite) Limestone Mines.

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

Note:

Permissible Limit :

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

Prepared By

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WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/05/WN-SDC001	Date Of Report:	30/05/2019
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		

➤ Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	9983420	01/07/2018	30/06/2019

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
24/05/2019	Dozer D8 - N (CAT)	88.3	83.4	73.8
24/05/2019	Hyundai - 140 (LC - 9)	89.1	82.8	74.6
24/05/2019	D.G. Set (ASKA - NLM - 9)	88.8	82.5	74.1

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
25/05/2019	Dozer D8 - R	89.5	83.1	75.2
	Dozer D 355	88.6	82.7	73.7
25/05/2019	Hyundai - 140 Excavator	88.3	83.5	73.5
25/05/2019	Tata - 200 Excavator	89.2	82.8	74.8
25/05/2019	Tata - 200 Bracker	89.1	83.3	74.5

Note:

Permissible Limit :

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

Prepared By

Seal

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AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/06/AN-SDC001	Date Of Report:	29/06/2019
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		

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

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	9983420	01/07/2018	30/06/2019

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

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

3) Pachhtar (Composite) Limestone Mines.

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

Note:

Permissible Limit :

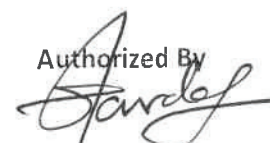
Day Time: 75> dB (A) Night Time: 70> dB (A)

Prepared By



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Authorized By



UERL/AIR/F-18/01

WORK PLACE NOISE LEVEL MONITORING REPORT

Test Report No.:	URA/19/06/WN-SDC001	Date Of Report:	29/06/2019
Name & Add. Of Industries	M/s. Shree Digvijay Cement Co. Ltd. Digvijaygram – 361140, Jamnagar (Gujarat)		

➤ Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/09C	Sound Level Meter	9983420	01/07/2018	30/06/2019

1) Gop (Composite) Limestone Mines.

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

2) Chorbedi (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
20/06/2019	Dozer D8 - N (CAT)	88.7	83.9	74.1
20/06/2019	Hyundai - 140 (LC - 9)	89.5	83.4	74.3
20/06/2019	D.G. Set (ASKA - NLM - 9)	89.2	83.0	74.5

3) Pachhtar (Composite) Limestone Mines.

Date of Monitoring	Name of Site	Noise Level – dB (A)		
		Inside Cabin	15 Mtr. away from m/c.	50 Mtr. away from m/c.
21/06/2019	Dozer D8 - R	89.2	83.7	74.8
	Dozer D 355	89.0	83.2	74.2
21/06/2019	Hyundai - 140 Excavator	88.8	83.1	73.2
21/06/2019	Tata - 200 Excavator	89.6	83.6	74.4
21/06/2019	Tata - 200 Bracker	89.3	83.9	74.8

Note:

Permissible Limit :

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

Prepared By

A. Patel

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[Signature]

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Annexure D

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

S.No.	WORK	AMOUNT in Rs.
1	Ambient Air & Noise Monitoring	21600
2	Water Sprinkling on haul roads	77350
3	Plantation charges	80000
4	Recurring Expenses for Security and Maintenance of Plantation	27000
	Total	205950



Signature

Shyam Narayan Singh
Manager-Mines