



By Email

Pac/MoEF/HYC/A/302/2956

Date: 31.05.2022

To,
Deputy Director General of Forests (C)
Integrated Regional Office, Gandhi Nagar
Ministry of Environment, Forest & Climate Change,
A- Wing -407 & 409, Aranya Bhawan,
Near CH -3 Circle Sector-10 A,
Gandhinagar -382010 (Gujarat)

Subject: Submission of 6 monthly compliance report of the conditions as laid down Environmental Clearance vide letter No J/11015/49/2005-IA. II (M), dated 07.10.2005, corrigendum dated 06.02.2006 & 21.06.2010 in respect of **Pachhtar (Composite) Limestone Mines**, pertaining to Shree Digvijay Cement Co Ltd. for the period of **Oct.-2021 to March-2022**.

Sir/Madam,

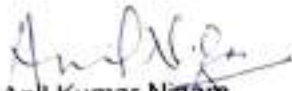
As required, we are submitting herewith Point wise compliance status to various stipulations, as laid-down in Environmental Clearance letter No. J-11015/49/2005-IA. II(M) dated 07.10.2005 and 06.02.2006 & 21.06.2010 with supporting documents, is being enclosed with the following Annexure:

- | | |
|--|--------------|
| 1. Environment Statement in Form V | : Annexure A |
| 2. Ambient Air Quality Reports | : Annexure B |
| 3. Noise Level | : Annexure C |
| 4. Environment Yearly Expenses Statement | : Annexure D |

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

Thanking you,

Yours faithfully,
For SHREE DIGVIJAY CEMENT CO. LTD.


Anil Kumar Nigam
Sr. General Manager (Mines)

Enclosures -As Above

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

**SHREE DIGVIJAY
CEMENT CO. LTD.**

Registered Office & Works
Post- Digvijaygram 361140, Jamnagar,
Gujarat, India.
CIN L26940GJ1944PLC000749

+91 288 234 4272-75
+91 288 234 4092
info@digvijaycement.com
www.digvijaycement.com

**PACHHTAR COMPOSITE LIMESTONE MINE
STATUS OF COMPLIANCE**

Period: October-2021 to March-2022

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

S. No.	CONDITIONS	COMPLIANCE STATUS
A. Specific Condition		
(i)	The project proponent shall carry out mining operations using Surface Miners in accordance with the mining scheme as approved by the Indian Bureau of Mines on 25.01.2010.	Being complied. Mining operation is being carried out as per Approved Mining Plan. IBM has approved a fresh Mining Plan on 13.02.2018 for the period of 2018 -19 to 2022 – 23.
(ii)	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM₁₀), NO_x in the ambient air within the impact one shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company. The Circular No. J-20012/1/2006 -IA. II (M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	Being complied. Ambient Air Quality is being monitored on regular basis and results are well within the stipulated norms. Monitoring reports are being submitted to all concerned offices regularly. A copy of test report for the period of October-2021 to March-2022 is attached herewith for your kind reference as Annexure A.  There is no any water discharge from the mines. The domestic wastewater as generated from office toilets is being disposed off in soak pit & septic tank. The data are being displayed at main gate of the Office as well as uploaded on the website of the company on regular intervals.
(iii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Not Applicable This is an operative mine.

B. General Condition

S. No.	CONDITIONS	COMPLIANCE STATUS																																																																																																
(i)	The project Proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests," its Regional Office Lucknow, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bhopal, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.	Being complied. Half Yearly reports are being submitted via email to all concerns offices within stipulated time periods on regular basis. The details are furnished below: <table><tr><th colspan="6">Last 8 Year Summary of HY Compliance Report Submitted</th></tr><tr><th colspan="6">PACHHTAR COMPOSITE LIMESTONE MINES</th></tr><tr><th rowspan="2">S. No.</th><th rowspan="2">Year</th><th colspan="2">Period</th><th rowspan="2">Letter No</th><th rowspan="2">Date of Submission</th></tr><tr><th>From</th><th>To</th></tr><tr><td rowspan="2">1</td><td rowspan="2">2014-15</td><td>Apr-14</td><td>Sep-14</td><td>SDCCL/MINES/MOEF/2014</td><td>01.12.2014</td></tr><tr><td>Oct-14</td><td>Mar-15</td><td>SDCCL/MINES/MOEF/2015/480</td><td>01.06.2015</td></tr><tr><td rowspan="2">2</td><td rowspan="2">2015-16</td><td>Apr-15</td><td>Sep-15</td><td>SDCCL/MINES/MOEF/2015</td><td>01.12.2015</td></tr><tr><td>Oct-15</td><td>Mar-16</td><td>Pac/MoEF/HYC/A/302/763</td><td>01.06.2016</td></tr><tr><td rowspan="2">3</td><td rowspan="2">2016-17</td><td>Apr-16</td><td>Sep-16</td><td>Pac/MoEF/HYC/A/302/885</td><td>19.11.2016</td></tr><tr><td>Oct-16</td><td>Mar-17</td><td>Pac/MoEF/HYC/A/302/ 1046</td><td>31.05.2017</td></tr><tr><td rowspan="2">4</td><td rowspan="2">2017-18</td><td>Apr-17</td><td>Sep-17</td><td>Pac/MoEF/HYC/A/302/1239</td><td>22.11.2017</td></tr><tr><td>Oct-17</td><td>Mar-18</td><td>Pac/MoEF/HYC/A/302/ 1382</td><td>18.05.2018</td></tr><tr><td rowspan="2">5</td><td rowspan="2">2018-19</td><td>Apr-18</td><td>Sep-18</td><td>Pac/MoEF/HYC/A/302/1562</td><td>26.11.2018</td></tr><tr><td>Oct-18</td><td>Mar-19</td><td>Pac/MoEF/HYC/A/302/1328</td><td>23.05.2019</td></tr><tr><td rowspan="2">6</td><td rowspan="2">2019-20</td><td>Apr-19</td><td>Sep-19</td><td>Pac/MoEF/HYC/A/302/ 1889</td><td>30.11.2019</td></tr><tr><td>Oct-19</td><td>Mar-20</td><td>Pac/MoEF/HYC/A/302/2035</td><td>29.05.2020</td></tr><tr><td rowspan="2">7</td><td rowspan="2">2020-21</td><td>Apr-20</td><td>Sep-20</td><td>Pac/MoEF/HYC/A/302/2240</td><td>20.11.2020</td></tr><tr><td>Oct-20</td><td>Mar-21</td><td>Pac/MoEF/HYC/A/302/2240</td><td>28.05.2021</td></tr><tr><td>8</td><td>2021-22</td><td>Apr-21</td><td>Sep-21</td><td>Pac/MoEF/HYC/A/302/2556</td><td>27.11.2021</td></tr></table> The compliances report along with Annexures are also available at the website of the company.	Last 8 Year Summary of HY Compliance Report Submitted						PACHHTAR COMPOSITE LIMESTONE MINES						S. No.	Year	Period		Letter No	Date of Submission	From	To	1	2014-15	Apr-14	Sep-14	SDCCL/MINES/MOEF/2014	01.12.2014	Oct-14	Mar-15	SDCCL/MINES/MOEF/2015/480	01.06.2015	2	2015-16	Apr-15	Sep-15	SDCCL/MINES/MOEF/2015	01.12.2015	Oct-15	Mar-16	Pac/MoEF/HYC/A/302/763	01.06.2016	3	2016-17	Apr-16	Sep-16	Pac/MoEF/HYC/A/302/885	19.11.2016	Oct-16	Mar-17	Pac/MoEF/HYC/A/302/ 1046	31.05.2017	4	2017-18	Apr-17	Sep-17	Pac/MoEF/HYC/A/302/1239	22.11.2017	Oct-17	Mar-18	Pac/MoEF/HYC/A/302/ 1382	18.05.2018	5	2018-19	Apr-18	Sep-18	Pac/MoEF/HYC/A/302/1562	26.11.2018	Oct-18	Mar-19	Pac/MoEF/HYC/A/302/1328	23.05.2019	6	2019-20	Apr-19	Sep-19	Pac/MoEF/HYC/A/302/ 1889	30.11.2019	Oct-19	Mar-20	Pac/MoEF/HYC/A/302/2035	29.05.2020	7	2020-21	Apr-20	Sep-20	Pac/MoEF/HYC/A/302/2240	20.11.2020	Oct-20	Mar-21	Pac/MoEF/HYC/A/302/2240	28.05.2021	8	2021-22	Apr-21	Sep-21	Pac/MoEF/HYC/A/302/2556	27.11.2021
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(ii)	The environmental statement for each financial year ending 31st March in Form - V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Bhopal by e-mail.	Being complied. Environmental Statement Report (ESR) for each financial year in Form - V is being submitted regularly to all concerned offices. ESR for the period of 2021-22 submitted vide letter no. PAC/GPCB/Form -V/C/352/2912 dated 07.04.2022 and copy of the same is available at Company's website. We are regularly submitting the ESR to all concerned department/offices by e-mail as well, as and when asked to submit.																																																																																																

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

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(i)	Prior approval of the Chief Wildlife Warden, Government of Gujarat, shall be obtained before expansion of mining activities.	Noted. No expansion till date.																								
(ii)	The production capacity from this mine shall not exceed 1.0 MTPA with a capping of production of limestone to 2.2 MTPA from all 5 Mines, namely Gop, Pachhtar, Mokhana, Chorbedi and Bhogat Limestone mines put together subject to the individual mines obtaining environmental clearance.	Being complied. Production during October-2021 to March-2022 is 164846.771 tonnes from Pachhtar (Composite) Limestone Mine. 04 Mines viz. Gop, Chorbedi, Pachhtar and Mokhana Mines have obtained EC individually as detailed below: Gop Mines: J-11015/47/2005-IA. II (M) dated 07.10.2005 Chorbedi Mines: J-11015/47/2005-IA. II (M) dated 07.10 2005 Pachhtar Mines: J-11015/49/2005-IA. II (M) dated 07.10 2005 Mokhana Mines: J-11015/48/2005-IA. II (M) dated 07.10 2005. Production of all 05 Limestone Mines during October-2021 to March-2022 and its capacities are given as under- <table><tr><th>Name of Mine</th><th>EC Capacity in Million Tons</th><th>Production in Million Tons</th><th>Remarks</th></tr><tr><td>Gop</td><td>0.25</td><td>0.160</td><td rowspan="5">Within the EC Limit</td></tr><tr><td>Pachhtar</td><td>1.00</td><td>0.165</td></tr><tr><td>Chorbedi</td><td>0.90</td><td>0.224</td></tr><tr><td>Mokhana</td><td>0.70</td><td>0.000</td></tr><tr><td>Bhogat</td><td>EC not granted</td><td>0.000</td></tr><tr><td>Total</td><td>2.85 (limited to 2.20)</td><td>0.549</td><td></td></tr></table> The individual and cumulative production is well within the limit. Mokhana Mines: Entire 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 dated 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	Remarks	Gop	0.25	0.160	Within the EC Limit	Pachhtar	1.00	0.165	Chorbedi	0.90	0.224	Mokhana	0.70	0.000	Bhogat	EC not granted	0.000	Total	2.85 (limited to 2.20)	0.549	
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(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 de-silted and maintained properly. Garland drain (size, gradient & length) shall be constructed for both mine pit and for the waste dump. Sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains.	Being complied. Details of Catch Drains & Siltation Pond: Catch drains and Siltation Ponds have been constructed and details are given as under. Catch Drains: <table><tr><th>Catch Drain No.</th><th>Length in Meter</th><th>Width in Meter</th><th>Depth in Meter</th></tr><tr><td>1</td><td>354</td><td>12</td><td>1.5</td></tr><tr><td>2</td><td>324</td><td>12</td><td>1.20</td></tr><tr><td>3</td><td>151</td><td>9</td><td>0.5</td></tr><tr><td>4</td><td>18</td><td>11</td><td>0.5</td></tr></table> Siltation ponds: Bottom pits of mines act as siltation ponds; details as below: <table><tr><th rowspan="2">Siltation Pond</th><th>Length</th><th>Width</th><th>Depth</th><th rowspan="2">Area</th><th rowspan="2">Volume</th></tr><tr><th colspan="3">In meter</th></tr><tr><td>1</td><td>218</td><td>97</td><td>5</td><td>21146</td><td>105730</td></tr><tr><td>2</td><td>145</td><td>43</td><td>3</td><td>6235</td><td>18705</td></tr><tr><td>3</td><td>291</td><td>121</td><td>5</td><td>28050</td><td>140250</td></tr><tr><td>4</td><td>86</td><td>74</td><td>2</td><td>6364</td><td>12728</td></tr><tr><td>5</td><td>182</td><td>75</td><td>3</td><td>13650</td><td>40950</td></tr><tr><td>6</td><td>692</td><td>61</td><td>5</td><td>42212</td><td>211060</td></tr><tr><td>7</td><td>404</td><td>83</td><td>12</td><td>33532</td><td>402384</td></tr><tr><td colspan="5">Total</td><td>931807</td></tr></table> Construction of Garland Drains: For Waste Dump: Not applicable as there is no waste. For Mines: Instead of Garland drain, catch drains are developed. There is no overflow of water or discharge of any mine water from the pits. All the silts are settled in pits itself. Catchment area including pits – 1221568 M2, Total quantity of water with an average rainfall of 63 CM and calculated by considering 60 % run of coefficient collection efficiency = 461752.7 KL. Sumps are large enough to provide adequate retention period for proper settling of silt material. This region of Gujarat is known as Semi-desert and scarcity of water is major concern. An arrangement has been made to collect surface runoff water during the monsoon into the pits. Rainwater accumulated in these pits helps to augment ground water. This water is also used for development of greenbelt & dust suppression. Beneficiaries of nearby mines area also use this water for irrigation purpose as per their requirement.	Catch Drain No.	Length in Meter	Width in Meter	Depth in Meter	1	354	12	1.5	2	324	12	1.20	3	151	9	0.5	4	18	11	0.5	Siltation Pond	Length	Width	Depth	Area	Volume	In meter			1	218	97	5	21146	105730	2	145	43	3	6235	18705	3	291	121	5	28050	140250	4	86	74	2	6364	12728	5	182	75	3	13650	40950	6	692	61	5	42212	211060	7	404	83	12	33532	402384	Total					931807
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(iv)	Drills should be wet operated or with dust extractors.	Drill machines are not in operation, as drilling & blasting has been eliminated by the use of Ripper–Dozer and Excavator combination, an Eco-Friendly mining.												
(v)	Controlled blasting should be practiced only daytime. The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.	Drilling & Blasting has been eliminated by the use of Ripper–Dozer and Excavator combination, an Eco-Friendly mining.  												
(vi)	Plantation shall be done over the lease area including a green belt of adequate width around the ML area, along roads by planting suitable native species in consultation with the local DFO/Agricultural Department. The density of trees should be around 1000 plants per hectare.	Plantation program is under progress & required area to be afforested during life of mine. At present plantation area is 4.13 hectares at the end of March 2022 out of which 0.50 Hectares area covered under plantation in the year 2021-22. A table with year wise plantation is given below; <table><tr><th>Year</th><th>Nos of Saplings planted</th></tr><tr><td>Up to 2018-19</td><td>4778</td></tr><tr><td>2019-20</td><td>352</td></tr><tr><td>2020-21</td><td>1068</td></tr><tr><td>2021-22</td><td>1169</td></tr><tr><td>Total</td><td>7367</td></tr></table>  	Year	Nos of Saplings planted	Up to 2018-19	4778	2019-20	352	2020-21	1068	2021-22	1169	Total	7367
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Up to 2018-19	4778													
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Total	7367													

Sl.	CONDITIONS	COMPLIANCE STATUS
(vii)	A total of 83.16 ha of the mined-out area shall be converted into a water reservoir. The higher benches of the void shall be terraced, and plantation done to stabilize the slopes. Peripheral fencing shall be done along the excavated area.	Being complied. Mining is being done as per approved mining plan. Mined out area are being developed as basin for collecting surface runoff rainwater after complete removal of mineral. Peripheral fencing & Stone Parapet Wall also being created along the excavated area.
(viii)	Ground water shall not be encountered during mining operations. Prior approval of the MOEF and CGWA shall be taken for mining below ground water.	Being complied. Ground Water is not encountered during mining operations. Mining is being carried out as per Approved mining plan and no ground will intersect. The Limestone thickness in the area is 20mtrs from GL, whereas the Water table lies about 25 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 scientific study of Rainwater harvesting, and Ground water recharge has been done by Hydrology & Groundwater expert Dr N. Varadaraj, M. Tech -, P.G. Diploma (Hons), Ph.D. The study report has been submitted to the CGWA – Ahmedabad (Copy attached). Rainwater harvesting & Ground water recharge measures is being done, as per the recommendations. The water harvesting pictures are depicted below;
		
s(x)	A final Mine Closure Plan along with detail of Corpus Fund should be submitted to the Ministry of Environment and Forests 5 years in advance of final mine closure for approval.	Noted. Final Mine closure plan will be submitted as per statutory provisions.
(xi)	Consent to operate shall be obtained from the SPCB before expanding mining operations.	Noted. Consent to operate has obtained from GPCB, vide Consent Order No. AWH 108461 dated 23.06.2020 which is valid up to 08/06/2025.

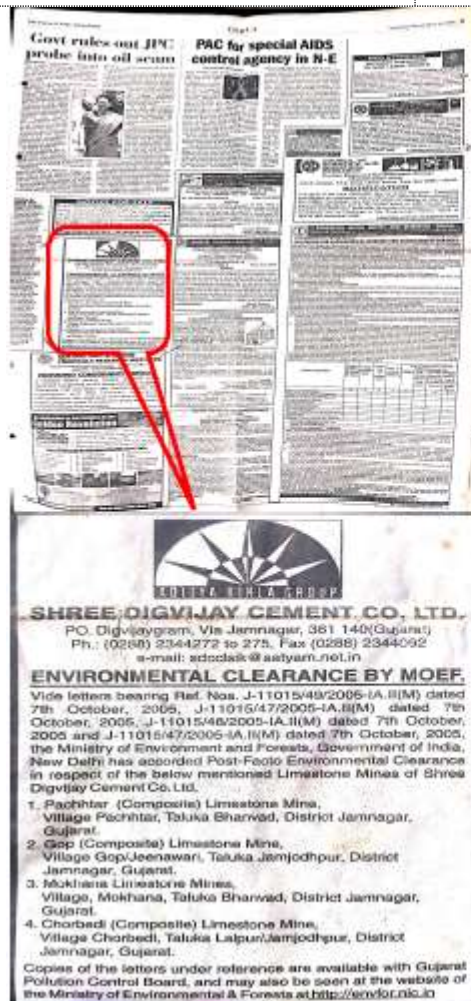
Sl.	CONDITIONS	COMPLIANCE STATUS								
										
B	General conditions									
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	Noted. Mining is being done as accordance with Approved Mining Plan (period of 2018 -19 to 2022 -23).								
(ii)	No change in the calendar plan including excavation, quantum of limestone and waste should be made.	Noted. Mining is being done as accordance with Approved Mining Plan (period of 2018 -19 to 2022 -23). The production details for the period 2021-22 is given below. <table><tr><th>Year</th><th>Mineral</th><th>Proposed Production as per approved Mining Plan in MT</th><th>Actual Production in MT</th></tr><tr><td>2021-22</td><td>Limestone</td><td>760700.00</td><td>716674.415</td></tr></table>	Year	Mineral	Proposed Production as per approved Mining Plan in MT	Actual Production in MT	2021-22	Limestone	760700.00	716674.415
Year	Mineral	Proposed Production as per approved Mining Plan in MT	Actual Production in MT							
2021-22	Limestone	760700.00	716674.415							
(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.	Ambient Air Quality is being monitored on regular basis and results are well within the stipulated norms. Monitoring reports are being submitted to all concerned offices regularly. A copy of test report for the period of October-2021 to March-2022 is attached herewith for your kind reference as Annexure A.  The results are well within the stipulate norms.								

Sl.	CONDITIONS	COMPLIANCE STATUS
(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.	Water is being sprinkled continuously on the mine haul roads as well as near the faces in order to suppress the fugitive emissions generated due to the movements of vehicles. EFFECTIVE DUST SUPPRESSION AT MINES 
(v)	Adequate measures should be taken for control of noise levels in the work environment.	Being complied. Mining machineries are provided with AC cabin for operator which protects the operator from heat, noise & dust. Machineries are being maintained regularly. PPEs ear plugs / earmuffs is being provided to operators. Copy of noise monitoring report for the period of October-2021 to March-2022 enclosed as Ann.-C. 
(vi)	Industrial wastewater, 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.	Repair and maintenance of vehicles is being done at Tata Cargo workshop, Rajkot. All maintenance & treatment facilities like ETP are available as per the norms. A photograph is attached for your kind reference.

Sl.	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 regularly and Periodic Medical Examination (PME) of all the workmen 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.																																																																						
	<table><tr><th colspan="7">Pachhtar Composite Limestone Mines</th></tr><tr><th colspan="7">Summary of No. of Person Examined</th></tr><tr><th>SL. NO</th><th>Year</th><th>No of Person required to be medically Examined</th><th>No of Person medically examined</th><th>No of Person declared medically unfit</th><th>Submission of Return in Form T to DGMS vide letter No</th><th>Date of submission of Return</th></tr><tr><td>1</td><td>2015</td><td>12</td><td>10</td><td>0</td><td>Pac/DGMS/FormT/A/107/665</td><td>05.01.2016</td></tr><tr><td>2</td><td>2016</td><td>3</td><td>3</td><td>0</td><td>Pac/DGMS/FormT/A/107/939</td><td>01.02.2017</td></tr><tr><td>3</td><td>2017</td><td>4</td><td>4</td><td>0</td><td>Pac/DGMS/FormT/A/107/1290</td><td>19.01.2018</td></tr><tr><td>4</td><td>2018</td><td>16</td><td>16</td><td>0</td><td>Pac/DGMS/FormT/A/107/1611</td><td>18.01.2019</td></tr><tr><td>5</td><td>2019</td><td>8</td><td>8</td><td>0</td><td>Pac(Comp)/DGMS/AR/FormT/A/107/1934</td><td>05.01.2020</td></tr><tr><td>6</td><td>2020</td><td>7</td><td>7</td><td>0</td><td>Pac(Comp)/DGMS/AR/FormT/A/107/2289</td><td>18.01.2021</td></tr><tr><td>7</td><td>2021</td><td>17</td><td>17</td><td>0</td><td>Pac(Comp)/DGMS/AR/FormT/A/107/2627</td><td>28.01.2022</td></tr></table>		Pachhtar Composite Limestone Mines							Summary of No. of Person Examined							SL. NO	Year	No of Person required to be medically Examined	No of Person medically examined	No of Person declared medically unfit	Submission of Return in Form T to DGMS vide letter No	Date of submission of Return	1	2015	12	10	0	Pac/DGMS/FormT/A/107/665	05.01.2016	2	2016	3	3	0	Pac/DGMS/FormT/A/107/939	01.02.2017	3	2017	4	4	0	Pac/DGMS/FormT/A/107/1290	19.01.2018	4	2018	16	16	0	Pac/DGMS/FormT/A/107/1611	18.01.2019	5	2019	8	8	0	Pac(Comp)/DGMS/AR/FormT/A/107/1934	05.01.2020	6	2020	7	7	0	Pac(Comp)/DGMS/AR/FormT/A/107/2289	18.01.2021	7	2021	17	17	0	Pac(Comp)/DGMS/AR/FormT/A/107/2627	28.01.2022
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(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).	Noted. Year wise expenditures on environmental protection measures is given below: <table><tr><th>S. No</th><th>Year</th><th>Annual Expenditure</th></tr><tr><td>1</td><td>2015-16</td><td>₹ 750680</td></tr><tr><td>2</td><td>2016-17</td><td>₹ 356756</td></tr><tr><td>3</td><td>2017-18</td><td>₹ 406410</td></tr><tr><td>4</td><td>2018-19</td><td>₹ 495120</td></tr><tr><td>5</td><td>2019-20</td><td>₹ 578149</td></tr><tr><td>6</td><td>2020-21</td><td>₹ 687255</td></tr><tr><td>7</td><td>2021-22</td><td>₹ 436063</td></tr></table>	S. No	Year	Annual Expenditure	1	2015-16	₹ 750680	2	2016-17	₹ 356756	3	2017-18	₹ 406410	4	2018-19	₹ 495120	5	2019-20	₹ 578149	6	2020-21	₹ 687255	7	2021-22	₹ 436063																																														
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(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.	Noted. Compliance report is being submitted regularly along with annexures to all concerned offices along with MoEF&CC, Regional Office. Details on submitted reports are given below;																																																																																																
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(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.	Noted.																																																																																																

Sl.	CONDITIONS	COMPLIANCE STATUS
(xii)	The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in vernacular language of the locality concerned, within 7 days of the issue of clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied. We have published Environment Clearance information in the two local newspapers dated 10.12.2005. The publication has appeared in the – (1) Times of India - Ahmedabad Edition (2) Phoolchhab - Rajkot edition.



FORM V

Environment Audit Report for the financial year ending the 31st March 2022

PART – A

1. Name & Address of the Owner/ Occupier of the Industry Operation or process : **Shree Digvijay Cement Co. Ltd.
Pachhtar (Composite) Limestone Mine
Survey No.225/P, Village- Pachhtar,
Taluka-Bhanvad, Distt. - Jamanagar
(Gujarat)**
2. Industry Category :
Primary: (STC Code) **Mining Industry**
Secondary: (SIC Code)
3. Production Capacity : **10 Lakh tones/Annum**
4. Year of Establishment : **07.11.1983**
5. Date of the last Environmental Statement submitted : **22.05.2021**

PART – B

Water & Raw Material Consumption

(i) * **Water consumption M³ / day**

Process	:	0
Cooling	:	0
Domestic (Drinking)	:	1.00 KL
Dust Suppression	:	4.10 KL
Plantation	:	0.40 KL

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

	Name of products	Process water consumption per unit of product	
		During previous Financial Year 2020-21	During current Financial Year 2021-22
	LIMESTONE	Not Applicable	Not Applicable

(ii) **Raw material consumption**

S. No.	Name of raw materials	Name of Products	Consumption of raw material per unit of output	
			During the previous financial year 2020-21	During the current financial year 2021-22
1.	Explosives	Limestone	Nil	Nil
2	Ammonium nitrate		Nil	Nil
3	Detonating Fuse		Nil	Nil
4	Safety Fuse		Nil	Nil
5	Detonator		Nil	Nil
6	Cord Relays		Nil	Nil
7	HSD		326050 L	361900 L
8	Lubricant oil		1192 L	6603 L
9	Grease		555.5 Kg	563.1 Kg

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		
		--	--	--
		--	--	--
		--	--	--

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

Sr. No.	Pollutant	Time Weightage Average	Concentration in Ambient Air
1	Sulphur dioxide (SO ₂) in Microgram/M ³	Annual 24 hours	50 80
2	Nitrogen Dioxide(NO _x) in Microgram/M ³	Annual 24 hours	40 80
3	Particulate Matter (Size less than 10 Microgram/M ³ or PM 10 Microgram/M ³)	Annual 24 hours	60 100
4	Particulate Matter (Size less than 2.5 Microgram/M ³ or PM 2.5 Microgram/M ³)	Annual 24 hours	40 60

PART – D

Hazardous Wastes

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

Hazardous Wastes		Total Quantity (Kg.)	
		During the previous Financial Year (2020-21)	During the current Financial Year (2021-22)
(a)	From Process (Used Oil from Machines)	90 L	110 L
(b)	From pollution control facilities	-	-

PART – E

(Solid Wastes)

		Total Quantity	
		During the Previous Financial Year	During the current Financial Year
(a)	From process	Not applicable , as there is no generation of solid waste from the process.	
(b)	From pollution control Facility		
(c)	i) Quantity recycled or re-utilized within the unit		
	ii) Sold		
	iii) Disposed		

PART – F

Please specify the characterization (in terms of concentration and quantum) of Hazardous as well as solid waste and indicate disposal practice adopted for both these categories of waste.

The used oil when taken out of machine at oil change time, it is collected in an empty barrel. This oil is reused for external lubrication of running moving parts of loading machine and lubrication system of drill machine.

Not applicable as described above in Part – E.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

Due to additional higher investment cost of pollution control monitoring and abatement measures there is slight additional burden on cost of production. Thus, the cost of production increases to certain extent. However, as it is absolutely necessary to have a pollution control to conserve ecology & environment, we have planted trees in the mines.

PART – H

Additional measures investment proposal for environmental protection including abatement of pollution, prevention of pollution.

Following control measures were being used for reducing dust in mines.

Use of Surface Miner/ Ripper Dozer – Mining operations has been carried out by Eco-friendly Surface Miner /Ripper Dozer which is having following advantages: -

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

Other Measures-

- 5.Dust suppressed on haul road by water sprinkling.
- 6.Fumes and smoke emission from HEMM controlled by regular maintenance and timely overhaul of engines.
- 7.Tarpulin covering on the transporting vehicle before leaving the mines site.
- 8.Vehicles are rightly loaded.
- 9.AAQ monitoring is done on regular basis. Contract awarded to Royal Auditing and Consultancy Services, Rajkot and reports area submitted to GPCB Gandhinagar, MOEF & CC, New Delhi and Regional office of MOEF & CC.

PART - I

Any other particulars for improving the quality of the environment

Following are various measures taken by us: -

1. Adequate plantation has been done in mines.
2. Mining is carried out as per Approved Mining Plan.
3. 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: 07.04.2022

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


Name: ANIL NIGAM
Designation: Sr. General Manager (Mines)
Address: Shree Digvijay Cement Co. Ltd.
P.O. Digvijaygram- 361140
(Via) Jamnagar, Gujarat

**Royal**Annexure-B**Environment Auditing & Consultancy Service**

303-304, Shivalik-7, B/s. Bai Adalat, Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2360695 ■ E-mail : royalservice@live.com ■ admin@royalconsultancy.com

Ref. No. :793/10/2021-22

Date: 30/10/2021

**REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone
Pachhtar and Pachhtardi Mines : OCTOBER 2021 (1st time)****Name of company : Shree Digvijay Cement Company Limited**

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	05/10/2021	05/10/2021	06/10/2021	06/10/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	3 to 15	3 to 15	3 to 15	3 to 15
05.	Average flow rate during sampling	m ³ /minutes	1.14	1.16	1.22	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	31.6	33.7	35.9	33.7
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	55.2	52.6	53.9	53.9
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.3	14.5	13.7	13.5
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.9	26.7	25.5	25.4

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 100 & PM 2.5 Sampler AAS 127
Calibrate Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service

Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Ba. Adilal, Gondal Road, RAJKOT - 360 002.

Ph : +91 281 2360586 • E-mail : royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 684/10/2021-22

Date: 30/10/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : OCTOBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	06/10/2021	06/10/2021	07/10/2021	07/10/2021
02.	Duration of Sampling	Hrs	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)		NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	1 to 15	1 to 15	1 to 15	1 to 15
05.	Average flow rate during sampling	m3/minutes	1.10	1.20	1.10	1.13
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	50	50	50	50
08.	Measured Concentration of PM 2.5	µg/m ³	34.5	36.7	36.1	36.4
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	72.8	74.1	73.2	73.3
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.2	11.5	12.5	12.4
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.6	23.1	25.4	23.7

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL. Gaseous Sampling Kit: AAS 108 & PM 2.5 Sampler AAS 127

Calibrate Done on: 17/08/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

309-304, Shreeji-7, B/s. Bal Adar, Gondal Road, RAJKOT - 360 002
Ph. +91 261 2360695 • E-mail: royalservice@live.com • admin@royalconsultancy.com

Ref. No. 695/10/2021-22

Date: 30/10/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : OCTOBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District - Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	06/10/2021	06/10/2021	07/10/2021	07/10/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs	2 to 14	2 to 14	2 to 14	2 to 14
05.	Average flow rate during sampling	m3/minutes	1.25	1.10	1.10	1.13
06.	Average flow rate for Gas sampling	LPM	3.0	3.0	3.0	3.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	40.5	40.6	45.1	43.1
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	72.1	73.6	75.5	73.7
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.2	15.1	12.5	13.9
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.0	23.5	25.1	23.6

Instrument Used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/08/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Sivalik-7, B/S. Bell Aazar, Gondal Road, RAJKOT - 360 002

Ph : +91 281 2360685 • E-mail : royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. 798/10/2021-22

Date: 30/10/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : OCTOBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 3. Mines Office			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	08/10/2021	08/10/2021	07/10/2021	07/10/2021
02.	Duration of Sampling	Hrs	8:00	8:00	8:00	24.00
03.	Dominant Wind Direction (From)	- - -	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	1 to 15	1 to 15	1 to 15	1 to 15
05.	Average flow rate during sampling	mS/minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	33.1	32.6	35.5	33.7
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	68.8	65.9	62.7	65.1
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.5	13.2	12.8	13.5
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	20.6	23.2	21.7	21.8

Instrument used : 1) Ecotech RDS, Model No. AAS - 247BL, Gaseous Sampling Kit: AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

300-304, Shivalik-7, B's Sa Anand Ganga Road RAJKOT - 360 002.

Ph. +91 281 2360995 • E-mail: royalenv.mn@gmail.com • admin@royalconsultancy.com

Ref. No. RS/411/2021-22

Date: 30/10/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhtardi Mines : OCTOBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling		24/10/2021	24/10/2021	25/10/2021	25/10/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.30	24.00
03.	Dominant Wind Direction (From)		NE	NE	NE	NE
04.	Average Wind Speed	Km /Hrs.	1 to 13	1 to 13	1 to 13	1 to 13
05.	Average flow rate during sampling	m ³ /minutes	1.15	1.15	1.14	1.18
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	33.6	31.5	34.2	33.1
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	61.5	59.7	56.1	58.8
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.2	13.2	11.9	13.1
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	25.4	21.3	23.6	23.4

Instrument Used: 1) Ecotech HCL, Model No. AAS-217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done on: 17/06/2020

Royal Environment Auditing & Consultancy Service



Ashish

Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Street No. 7, B/s Ba Adalat, Gondal Road, RAJKOT - 360 002

Ph: +91 261 2360885 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref No: 855110/2021-22

Date: 30/10/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhlar and Pachhtardi Mines : OCTOBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140,

District : Jamnagar

Sr. No.	Particulars	Unit	Core Zone - 1. Near Weigh Bridge			Average Result of 24 Hrs
			1 st	2 nd	3 rd	
			8:00 Hrs.	8:00 Hrs.	8:00 Hrs.	
01.	Date of sampling	---	24/10/2021	24/10/2021	25/10/2021	25/10/2021
02.	Duration of Sampling	Hrs	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)		NE	NE	NE	NE
04.	Average Wind Speed	Km/Hrs.	3 to 14	3 to 14	3 to 14	3 to 14
05.	Average flow rate during sampling	m ³ /minutes	1.13	1.17	1.14	1.13
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	37.6	35.1	33.2	33.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	55.8	51.2	50.4	53.4
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.2	15.1	12.8	13.7
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.5	21.8	25.5	23.6

Instrument used : 1) Ecotech RUS, Model No. RUS-21/BL, Gasphase Sampling Kit, AAS 108 & PM 2.5 Sampler AAS 127

Calibration Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service



Ashish

Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivika 7, B.S. Bal Adalat Ganga Nagar RAJKOT - 360 002.

Ph : +91 261 2980885 • E-mail : royaleenvironment@live.com • admin@royalconsultancy.com

Ref No : 756/10/2021-22

Date : 30/10/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : OCTOBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2 Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	----	24/10/2021	24/10/2021	25/10/2021	25/10/2021
02.	Duration of Sampling	Hrs	6.00	6.00	6.00	24.00
03.	Dominant Wind Direction (From)	----	NE	NE	NE	NE
04.	Average Wind Speed	Km/Hrs.	3 to 14	3 to 14	3 to 14	3 to 14
05.	Average flow rate during sampling	m ³ /minutes	1.12	1.18	1.21	1.16
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	35.6	32.8	33.9	34.1
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	64.5	65.9	63.6	65.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	15.2	14.3	12.2	13.9
13.	Permissible Limits of NO ₂	µg/m ³	60	60	60	60
14.	Measured Concentration of NO ₂	µg/m ³	75.6	23.1	22.9	24.2

Instrument used : 1) EcoLech RDE Model No. AAS - 217BL Gaseous Sampling Kit-AAS ICE & PM 2.5 Sampler AAS 121

Calibration Done on : 17/09/2020

Royal Environment Auditing & Consultancy Service



Ashish

Analyst



Royal

Environment Auditing & Consultancy Service

300-304, Shivalik-7, B/s. Bal Aalok Ganga Road RAJKOT - 360 002.

Ph. +91 781 2360655 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. 857/10/2021-22

Date: 30/10/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : OCTOBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited
Digvijaygram - 361 140.
District : Jamnagar

Sr. No.	Particulars	Unit	Core Zone - 3, Mines Office			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	----	24/10/2021	24/10/2021	25/10/2021	25/10/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	NE	NE	NE	NE
04.	Average Wind Speed	Km/Hrs	3 to 14	3 to 14	3 to 14	3 to 14
05.	Average flow rate during sampling	m ³ /min/100cc	1.22	1.13	1.15	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	44.3	41.2	42.9	42.8
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	56.8	60.2	62.6	59.8
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.3	15.4	13.6	13.8
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	25.4	21.3	23.6	23.5

Instrument used : 1) EcoTech RDS Model No. AAS-217B, Gaseous Sampling Kit- AAS TMR & PM 2.5 Sampler AAS-127

Calibrate Done on: 17/05/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 • E-mail: royalsenvironment@live.com • admin@royalconsultancy.com

Ref No. :893/11/2021-22

Date: 30/11/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhtardi Mines : NOVEMBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	10/11/2021	10/11/2021	11/11/2021	11/11/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	1 to 16	1 to 16	1 to 16	1 to 16
05.	Average flow rate during sampling	m3/minutes	1.15	1.21	1.16	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	33.5	31.6	32.7	32.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	50.6	53.4	51.7	51.9
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.4	10.9	12.6	12.3
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.7	25.4	23.9	24.0

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2360695 ■ E-mail: royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 794/11/2021-22

Date: 30/11/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : NOVEMBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	11/11/2021	11/11/2021	12/11/2021	12/11/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	1 to 16	1 to 16	1 to 16	1 to 16
05.	Average flow rate during sampling	m3/minutes	1.20	1.10	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	31.6	33.8	34.9	33.4
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	68.5	71.3	69.4	69.7
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.6	10.8	13.4	12.3
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	20.6	24.3	22.7	22.5

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service RAJKOT



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2360695 • E-mail: royalsenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 795/11/2021-22

Date: 30/11/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : NOVEMBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	11/11/2021	11/11/2021	12/11/2021	12/11/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	1 to 16	1 to 16	1 to 16	1 to 16
05.	Average flow rate during sampling	m3/minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	45.2	42.6	43.1	43.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	73.1	69.4	68.3	70.3
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.5	14.3	13.6	13.5
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	19.2	26.3	21.6	22.4

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit: AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002

Ph: +91 281 2360695 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 796/11/2021-22

Date: 30/11/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : NOVEMBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 3. Mines Office			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	11/11/2021	11/11/2021	12/11/2021	12/11/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	1 to 16	1 to 16	1 to 16	1 to 16
05.	Average flow rate during sampling	m3/minutes	1.20	1.10	1.10	1.13
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	30.6	31.9	34.5	32.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	64.6	70.3	61.3	65.4
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.5	12.9	14.5	13.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.2	20.6	22.3	22.0

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit: AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service



Ashish

Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 ■ E-mail: royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref No. 954/11/2021-22

Date: 30/11/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhtardi Mines : NOVEMBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	24/11/2021	24/11/2021	25/11/2021	25/11/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	2 to 18	2 to 18	2 to 18	2 to 18
05.	Average flow rate during sampling	m3/minutes	1.15	1.22	1.17	1.18
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	31.6	33.8	35.4	33.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	62.5	63.8	58.7	61.7
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.4	12.6	14.4	13.5
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	24.3	22.5	21.6	22.8

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Analyst



Royal

Environment Auditing & Consultancy Service

303/304, Shweta 7, B/s. Bai Adalat, Gondal Road, RAJKOT - 360 002

Ph : +91 281 2360695 • E-mail : royaleenvironment@live.com • admin@royalconsultancy.com

Ref No: 955/11/2021-22

Date: 30/11/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : NOVEMBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	---	24/11/2021	24/11/2021	25/11/2021	25/11/2021
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04	Average Wind Speed	Km./Hrs.	2 to 18	2 to 18	2 to 18	2 to 18
05	Average flow rate during sampling	m3/minutes	1.12	1.19	1.16	1.16
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	34.5	31.6	30.6	32.2
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	51.2	54.6	52.9	52.9
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	12.6	11.8	13.4	12.6
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	22.5	23.6	21.7	22.6

Instrument used: 1) Ecotech RDS, Model No. AAS - 217(BL), Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on: 17/05/2020

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Adish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2360695 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref No. 856/11/2021-22

Date: 30/11/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : NOVEMBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	24/11/2021	24/11/2021	25/11/2021	25/11/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	2 to 18	2 to 18	2 to 18	2 to 18
05.	Average flow rate during sampling	m3/minutes	1.15	1.19	1.22	1.19
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	31.6	33.5	34.8	33.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	62.8	64.9	61.8	63.2
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.5	12.8	14.4	13.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.6	21.8	23.9	22.8

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ashish
Analyst

**Royal****Environment Auditing & Consultancy Service**

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002

Ph. +91 281 2360695 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. :957/11/2021-22

Date: 30/11/2021

**REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone
Pachhtar and Pachhtardi Mines : NOVEMBER 2021 (2nd Visit)****Name of company : Shree Digvijay Cement Company Limited**

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 3. Mines Office			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	24/11/2021	24/11/2021	25/11/2021	25/11/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	2 to 18	2 to 18	2 to 18	2 to 18
05.	Average flow rate during sampling	m3/minutes	1.16	1.20	1.19	1.18
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	41.6	40.8	43.9	42.1
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	59.7	61.2	60.8	60.6
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	15.6	13.5	14.2	14.4
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	20.9	21.6	24.3	22.3

Instrument used : 1) Ecotech RD5, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Royal

Environment Auditing & Consultancy Service

303-304 Shivalik-7, B/s. Bal Adaal, Gondal Road, RA. KOT - 360 002

Ph: +91 281 2360665 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No.: 993/12/2021-22

Date: 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhtardj Mines : DECEMBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar

Sr. No.	Particulars	Unit	Buffer Zone - 1. Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	00/12/2021	05/12/2021	05/12/2021	09/12/2021
02.	Duration of Sampling	Hrs.	8:00	8:00	8:00	24:00
03.	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	3 to 13	3 to 13	3 to 13	3 to 13
05.	Average flow rate during sampling	m ³ /minutes	1.20	1.15	1.19	1.18
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	28.4	34.9	33.8	31.4
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	53.2	50.6	49.7	51.2
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	11.8	13.5	15.4	13.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	25.1	20.7	19.4	21.4

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304 Shivalik-7 G/S Bul Adalai, Goral Road, RAJKOT - 360 002

Ph.: +91 291 2350695 • E Mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. : REA/12/2021-22

Date: 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : DECEMBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	----	09/12/2021	09/12/2021	10/12/2021	10/12/2021
02.	Duration of Sampling	Hrs.	8:00	8:00	8:00	24:00
03.	Dominant Wind Direction (From)		NW	NW	NW	NW
04.	Average Wind Speed	Km/Hrs	3 to 13	3 to 13	3 to 13	3 to 13
05.	Average flow rate during sampling	ml/minutes	1.15	1.20	1.10	1.15
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	$\mu\text{g}/\text{m}^3$	50	50	50	50
08.	Measured Concentration of PM 2.5	$\mu\text{g}/\text{m}^3$	38.9	29.7	31.0	32.8
09.	Permissible Limits of PM 10	$\mu\text{g}/\text{m}^3$	100	100	100	100
10.	Measured Concentration of PM 10	$\mu\text{g}/\text{m}^3$	62.1	67.3	63.4	64.3
11.	Permissible Limits of SO_2	$\mu\text{g}/\text{m}^3$	30	30	30	30
12.	Measured Concentration of SO_2	$\mu\text{g}/\text{m}^3$	14.9	13.7	11.5	13.4
13.	Permissible Limits of NO_2	$\mu\text{g}/\text{m}^3$	80	80	80	80
14.	Measured Concentration of NO_2	$\mu\text{g}/\text{m}^3$	24.8	19.7	25.4	23.3

Instrument used : 1) Ecotech RD5, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS - 27

Calibrate Done on : 17/05/2020

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Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

300-304, Shivalik 7, B/A. Ba Adalat, Gornal Road RAJKOT - 360 002

Ph : 91 261 2380995 - E-mail : royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 855/12/21/21-22

Date: 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhlar and Pachhtardi Mines : DECEMBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 36° 140

District : Jamnagar,

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	----	09/12/2021	09/12/2021	10/12/2021	10/12/2021
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)		NW	NW	NW	NW
04	Average Wind Speed	Km./Hrs.	3 to 13	3 to 13	3 to 13	3 to 13
05	Average flow rate during sampling	minutes	1.20	1.10	1.10	1.13
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	40.1	38.5	41.2	40.1
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	59.6	53.7	64.9	58.1
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	15.8	10.7	11.4	12.6
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	21.5	20.1	25.8	22.5

Instrument used : 1) Ecotech RDS Model No. AAS - 270L. Gaseous Sampling Kit: AAS 100 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

330-304, Shivalik-7, B/s. Bal Adalat, Borial Road, NAJACOT - 380 002

Ph. +91 261 2350695 • E-mail : royaleenvironment@live.com • admn@royalconsultancy.com

Ref. No. : 998/12/2021-22

Date : 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhlar and Pachhtardl Mines ;DECEMBER 2021 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 351 140

District : Jamnagar

Sr. No.	Particulars	Unit	Core Zone = 3. Mines Office			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling		09/12/2021	09/12/2021	10/12/2021	10/12/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)		NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	3 to 13	3 to 13	3 to 13	3 to 13
05.	Average flow rate during sampling	m3/minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	l PM	2.1	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	35.4	28.7	31.6	31.9
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	58.1	55.9	59.7	57.9
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.7	10.6	12.8	12.7
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	19.4	23.0	18.7	20.4

Instrument Used : 1) Ecotech RDS, Model No. AAS - 217BL, Gas analyser Sampling Kit- AAS 120 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/08/2020

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Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303/304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 007

Ph.: +91 291 2360695 • E-mail: roya.environment@live.com • admin@royalconsultancy.com

Ref. No.: 1354/12/2021-22

Date: 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhtardi Mines : DECEMBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 351 140.

District : Jamnagar

Sr. No.	Particulars	Unit	Buffer Zone = 1, Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	---	21/12/2021	21/12/2021	22/12/2021	22/12/2021
02	Duration of Sampling	Hrs	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	----	NW	NW	NW	NW
04	Average Wind Speed	Km./Hrs.	3 to 15	2 to 15	3 to 15	3 to 15
05	Average flow rate during sampling	m ³ /minutes	1.10	1.20	1.15	1.15
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	28.7	34.9	33.7	31.4
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	58.4	61.2	63.9	60.1
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	14.6	10.8	12.6	12.7
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	21.5	18.9	19.3	20.0

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit: AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304 Shivalik-7 Bt Bul Adalal Gonda Road RAJGOT - 382 022

Ph : +91 281 2950895 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 1055/12/2021-22

Date : 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING ; Core Zone Pachhtar and Pachhtardi Mines ; DECEMBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar

Sr. No.	Particulars	Unit	Core Zone = 1, Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling		21/12/2021	21/12/2021	22/12/2021	22/12/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)		NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	3 to 16	3 to 16	3 to 16	3 to 16
05.	Average flow rate during sampling	m ³ /minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	80	80	80	80
08.	Measured Concentration of PM 2.5	µg/m ³	31.7	35.4	33.2	33.4
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	45.5	51.3	47.4	48.6
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.9	13.7	11.6	13.4
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	23.8	19.4	25.5	21.8

Instrument used : 1) Ecotech RDS Model No. AAS - 278L Gasphase Sampling Kit, AAS - 09 & PM 2.5 Sampler: AAS 127

Calibrate Date on : 17/06/2020

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Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, 8/5 Dal Adalat, Gurdal Road, RAJKOT - 360 002.

Ph : +91 261 2320695 • E-mail : royal@environmentline.com • zamin@royalconsultancy.com

Ref. No. 906/12/2021-22

Date: 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : DECEMBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar

Sr. No.	Particulars	Unit	Core Zone = 2, Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	21/12/2021	21/12/2021	22/12/2021	22/12/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	6.00	24.00
03.	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04.	Average Wind Speed	Km/Hrs	3 to 10	3 to 16	3 to 13	3 to 16
05.	Average flow rate during sampling	m ³ /minutes	1.20	1.10	1.10	1.13
06.	Average flow rate for Gas sampling	LPM	240	240	240	240
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	38.7	29.4	33.7	32.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	57.9	61.5	66.6	58.7
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	11.2	15.7	12.8	13.2
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	26.0	18.9	25.1	23.3

Instrument used : 1) Project RV-1 Model No. AA9-212PM Gas analyser Sampling Kit: AA9-112 & PM 2.5 Sampler AA9-127

Calibrate Date on : 17/06/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shree 7, B's Ba. Adulal Gaudal Road, RAJKOT - 360 302.

P: +91 281 2360665 • E-mail: royaleenvironment@163.com • admin@royalenv.auditing.com

Ref. No.: CO/12/2021-22

Date: 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : DECEMBER 2021 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District - Jamnagar

Sr. No.	Particulars	Unit	Core Zone = J. Mines Office			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	21/12/2021	21/12/2021	22/12/2021	22/12/2021
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	-----	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs	3 to 16	3 to 16	3 to 16	3 to 16
05.	Average flow rate during sampling	minutes	1.10	1.20	1.15	1.15
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	80	80	80	80
08.	Measured Concentration of PM 2.5	µg/m ³	46.7	45.5	38.4	43.5
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	62.1	57.8	64.4	61.4
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.8	10.9	11.4	12.0
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.4	18.8	21.3	21.2

Instrument used : 1) LooTech HUS, Model No. AAS - 217BL, Easthouse Sampling Kit- AAS 100 & PM 2.5 Sampler AAS 12/

Calibrate Done on : 17/06/2020

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Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No.: 194/01/2021-22

Date: 01/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhtardi Mines : JANUARY 2022 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1, Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	---	06/01/2022	06/01/2022	07/01/2022	07/01/2022
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	1 to 15	1 to 15	1 to 15	1 to 15
05.	Average flow rate during sampling	m ³ /minutes	1.10	1.20	1.15	1.15
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	31.8	29.4	33.5	31.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	59.1	56.8	55.4	57.1
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	13.1	11.3	12.5	12.3
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	20.4	18.7	21.2	20.1

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2360695 ■ E-mail: royalsenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 195/01/2021-22

Date: 01/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : JANUARY 2022 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	07/01/2022	07/01/2022	08/01/2022	08/01/2022
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	1 to 15	1 to 15	1 to 15	1 to 15
05.	Average flow rate during sampling	m3/minutes	1.10	1.15	1.20	1.15
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	31.6	35.2	38.1	35.0
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	66.3	62.7	60.4	63.1
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.4	15.3	14.1	13.9
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	19.4	22.9	23.2	21.8

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2380695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. :196/01/2021-22

Date: 01/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : JANUARY 2022 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	07/01/2022	07/01/2022	08/01/2022	08/01/2022
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	1 to 15	1 to 15	1 to 15	1 to 15
05.	Average flow rate during sampling	m3/minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	36.8	41.4	38.2	38.8
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	63.3	67.1	61.9	64.1
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.5	13.8	14.3	13.5
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	18.8	24.1	20.3	21.1

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. :2054/01/2021-22

Date: 01/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhtardi Mines : JANUARY 2022 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	30/01/2022	30/01/2022	30/01/2022	30/01/2022
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	2 to 12	2 to 12	2 to 12	2 to 12
05.	Average flow rate during sampling	m3/minutes	1.20	1.19	1.10	1.16
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	33.8	30.4	35.6	33.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	62.5	58.1	64.7	61.8
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.4	14.8	10.9	12.7
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	18.3	20.5	16.8	18.5

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Ashish
Analyst



Royal Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.
Ph: +91 281 2360685 ■ E-mail: royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. :2055/01/2021-22

Date: 01/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines :JANUARY 2022 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	30/01/2022	30/01/2022	30/01/2022	30/01/2022
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	2 to 12	2 to 12	2 to 12	2 to 12
05.	Average flow rate during sampling	m3/minutes	1.20	1.10	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	36.1	30.4	31.9	32.8
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	53.4	47.8	51.7	51.0
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.5	11.6	14.2	12.8
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	18.4	22.3	21.6	20.8

Instrument used : 1) EcoTech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/L Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2360695 • E-mail: royalservice@live.com • admin@royalconsultancy.com

Ref. No: 2056/01/2021-22

Date: 01/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : JANUARY 2022 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jaminagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	30/01/2022	30/01/2022	30/01/2022	30/01/2022
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	2 to 12	2 to 12	2 to 12	2 to 12
05.	Average flow rate during sampling	m3/minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	31.6	34.9	33.3	33.3
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	62.5	59.1	60.7	60.8
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.1	12.5	13.6	13.4
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	22.4	20.6	19.3	20.8

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002

Ph: +91 281 2560695 ■ E-mail : royaleenvironment@raja.com ■ admin@royalconsulancy.com

Ref. No. 284/02/2021-22

Date: 28/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhtardl Mines : FEBRUARY 2022 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone - 1. Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 11:00 Hrs.	3 rd 5:00 Hrs.	
01	Date of sampling	—	09/02/2022	09/02/2022	10/02/2022	10/02/2022
02	Duration of Sampling	Hrs.	6.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04	Average Wind Speed	Km./Hrs.	2 to 13	2 to 13	2 to 13	2 to 13
05	Average flow rate during sampling	m ³ /minutes	1.10	1.20	1.15	1.15
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	35.8	32.1	29.4	32.4
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	56.8	52.5	51.9	53.7
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	11.3	9.7	14.4	11.8
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	23.4	16.6	19.7	19.9

Instrument used : 1) Ecotech RDS, Model No. AAS - 717BI, Greenhouse Sampling Kit - AAR 106 & PM 2.5 Sampler AAS 127

Calibration Done on : 27/12/2021

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Ashish

Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shikhar-7, B/s. Pal Adarsh, Gondal Road, RAJKOT - 360 002.

Ph: +91 261 2350695 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 286/02/2021-22

Date: 28/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : FEBRUARY 2022 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 381 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	08/02/2022	09/02/2022	10/02/2022	10/02/2022
02.	Duration of Sampling	Hrs.	8:00	8:00	8:00	24:00
03.	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04.	Average Wind Speed	Km.Hrs.	2 to 13	2 to 13	2 to 13	2 to 13
05.	Average flow rate during sampling	m ³ /minutes	1.10	1.15	1.20	1.15
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	38.9	30.1	33.6	33.8
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	62.3	56.7	55.2	58.7
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.6	18.9	12.7	15.4
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	18.9	20.5	18.6	18.7

Instrument used : 1) Ecotech RD6, Model No. AAS - Z17BL, Gaseous Sampling Kit: AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Ashish

Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, Bha. Sai Adalat, Gondal Road, RAJKOT - 360 002

Ph: -91 281 2380895 ■ E-mail: royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. 298/02/2021-22

Date: 28/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : FEBRUARY 2022 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	09/02/2022	08/02/2022	10/02/2022	10/02/2022
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04.	Average Wind Speed	Km./Hrs.	2 to 13	2 to 13	2 to 13	2 to 13
05.	Average flow rate during sampling	m ³ /minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	94.7	99.8	97.4	97.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	58.4	62.8	58.7	59.7
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	10.3	9.9	11.5	10.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	16.7	28.4	18.5	20.8

Instrument used: 1) Ecotech RDS Model No. AAS - 217BL Gaseous Sampling Kit: AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on: 27/12/2021

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Ashish

Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivam-7, Bk. Bal Aash, Gondal Road, RAJKOT - 360 002

Ph: +91 281 2360635 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. J3054/02/2021 22

Date: 28/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhlardi Mines : FEBRUARY 2022 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 381 140

District : Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone - 1. Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	27/02/2022	27/02/2022	27/02/2022	27/02/2022
02.	Duration of Sampling	Hrs.	8:00	8:00	8:00	24:00
03.	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04.	Average Wind Speed	Km/Hrs	3 to 14	3 to 14	3 to 14	3 to 14
05.	Average flow rate during sampling	m ³ /minutes	1.20	1.19	1.10	1.16
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	29.3	34.8	31.4	31.8
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	58.4	52.9	50.7	53.8
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	14.8	17.4	8.8	13.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	21.8	16.1	19.3	18.0

Instrument used : 1) Ecotech RD8, Model No. AAS - 217BL, Gasouse Sampling Kit- AAS 109 & PM 2.5 Sampler: AAS 127

Calibrate Done on : 27/12/2021

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Ashish

Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adarsh, Gondal Road, RAJKOT - 362 022.

Ph : +91 261 2380685 • E-mail : royalenvironment@live.com • admin@royalconsultancy.com

Ref No : 3055/02/2021-22

Date: 28/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines :FEBRUARY 2022 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 351 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	--	27/02/2022	27/02/2022	27/02/2022	27/02/2022
02.	Duration of Sampling	Hrs	8:00	8:00	8:00	24.00
03.	Dominant Wind Direction (From)	---	NW	NW	NW	NW
04.	Average Wind Speed	Km /Hrs	3 to 14	3 to 14	3 to 14	3 to 14
05.	Average flow rate during sampling	m3/minutes	1.20	1.10	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	31.6	34.2	28.8	31.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	50.3	44.9	49.7	48.3
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	10.1	13.5	12.8	12.1
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	15.3	19.6	17.2	17.4

Instrument Used : 1) Ecolab RDS, Model No. AAS - 21/BL, Gaseous Sampling Kit: AAS 109 & PM 2.5 Sampler AAS 127

Calibration Done on : 27/12/2021

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RAJKOT

Analyst

Ashish



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/o. Bai Agasth Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2360696 • E-mail: royalsenvironment@live.com • admin@royalconsultancy.com

Ref No. 3058/02/2021-22

Date: 28/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : FEBRUARY 2022 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	—	27/02/2022	27/02/2022	27/02/2022	27/02/2022
02.	Duration of Sampling	Hrs.	8:00	8:00	8:00	24:00
03.	Dominant Wind Direction (From)	—	NW	NW	NW	NW
04.	Average Wind Speed	Km/Hrs.	3 to 14	5 to 14	3 to 14	3 to 14
05.	Average flow rate during sampling	m ³ /minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	50	50	50	50
08.	Measured Concentration of PM 2.5	µg/m ³	34.2	29.4	30.9	31.5
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	65.2	55.6	52.9	51.2
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	18.2	9.4	11.2	12.9
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	17.6	23.1	21.6	20.7

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gasometer Sampling Kit- AAS 100 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/02/2021

Royal Environment Auditing & Consultancy Service



Adish

Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-2, B/S. Sal Achari, Conna Road, RAJKOT - 360 002.

Ph: +91 201 2360995 • E-mail: royalecra@gmail.com • admin@royalconsultancy.com

Ref. No.: J54/03/2021-22

Date: 31/03/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhtardi Mines : MARCH 2022 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar

Sr. No.	Particulars	Unit	Buffer Zone - 1. Pachhtar Village			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	---	08/03/2022	08/03/2022	08/03/2022	08/03/2022
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04	Average Wind Speed	Km./Hrs.	3 to 15	3 to 15	3 to 15	3 to 15
05	Average flow rate during sampling	m ³ /minutes	1.16	1.17	1.20	1.18
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	34.8	30.6	32.5	32.7
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	54.5	53.9	50.6	53.1
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	12.5	8.6	12.6	11.2
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	21.5	18.4	19.1	19.3

Instrument used: 1) Coltech RD5 Model No. AAS - 717RI, Gasphase Sampling Kit-AAS 129 & PM 2.5 Sampler AAS 127

Calibrate Done on: 27/12/2021

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

333/04, Shivalik-7 B/A Bal Anagar, Gomti Road, RAJKOT - 360 002

Ph : +91 291 2360895 ■ E-mail: royalenvironment@live.com ■ admin@royalconsultancy.com

No. No : 395/M3/2021-22

Date : 31/03/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhaldi Mines : MARCH 2022 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digwajaygram - 361 140

District : Jamnagar

Sr. No.	Particulars	Unit	Core Zone = 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling	----	08/03/2022	08/03/2022	09/03/2022	09/03/2022
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	----	NE	NE	NE	NE
04	Average Wind Speed	Km/Hrs.	3 to 15	3 to 15	3 to 15	3 to 15
05	Average flow rate during sampling	m ³ /minutes	1.15	1.20	1.17	1.18
06	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	33.8	32.0	34.9	33.8
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	50.8	54.2	57.9	57.6
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	13.2	17.5	14.9	15.2
13	Permissible Limits of NO _x	µg/m ³	80	80	80	80
14	Measured Concentration of NO _x	µg/m ³	15.2	19.4	17.5	17.4

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit-AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

Royal Environment Auditing & Consultancy Service



Ashtu

Analyst



Royal

Environment Auditing & Consultancy Service

303/304, Shivalki 7, B/A, 3rd Adalaj, Gonda Road RAJKOT - 360 006

Tel : +91 291 2360295 • E-mail : royalenvironment@ne.com • ecmin@royalenvironment.com

Ref No : 596/09/2021/22

Date : 31/03/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : MARCH 2022 (1st time)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 381 140

District : Jamnagar

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	----	08/03/2022	08/03/2022	08/03/2022	08/03/2022
02.	Duration of Sampling	Hrs.	6.00	6.00	6.00	24.00
03.	Dominant Wind Direction (From)	-----	NE	NE	NE	NE
04.	Average Wind Speed	Km/Hrs.	3 to 15	3 to 16	3 to 15	3 to 15
05.	Average flow rate during sampling	m ³ /minutes	1.19	1.17	1.10	1.15
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	33.6	34.8	30.9	33.1
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	54.8	60.6	57.8	57.7
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.6	11.8	10.9	11.8
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	20.6	24.8	19.4	21.7

Instrument used : 1) Ecotech RDS Model No. AAS - 2173, Gasoline Sampling Zn - MG 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 25/12/2021

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Adish

Analyst



Royal

Environment Auditing & Consultancy Service

300 324, Shivdoli-7, B/a. Bal Adar, Gondal Road, RAJKOT - 362 002

Ph.: +91 281 2336855 - E-mail: royalenvironment@live.com # admin@royalconsultancy.com

Ref No. 4054/03/2021-22

Date: 31/03/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhtardi Mines : MARCH 2022 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District: Jamnagar.

Sr. No.	Particulars	Unit	Buffer Zone = 1. Pachhtar Village			Average Result of 24 Hrs.
			1 st	2 nd	3 rd	
			8:00 Hrs.	8:00 Hrs.	8:00 Hrs.	
01.	Date of sampling	---	29/03/2022	29/03/2022	29/03/2022	29/03/2022
02.	Duration of Sampling	Hrs.	9.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	---	NE	NE	NE	NE
04.	Average Wind Speed	Km./Hrs.	1 to 16	1 to 15	1 to 16	1 to 15
05.	Average flow rate during sampling	m ³ /minutes	1.15	1.14	1.21	1.17
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	31.5	27.8	29.4	29.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	54.5	56.0	58.4	58.3
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	11.8	13.4	10.5	12.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	15.5	20.3	17.8	19.2

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Analyst



Royal

Environment Auditing & Consultancy Service

302/304, Shivalik-7, B's Bal Adar, Gopal Road, RAJKOT - 360 002

Ph: +91 281 2360965 • E-mail: royalenviro@gmail.com • admin@royalconsultancy.com

Ref No. 400003/2021-22

Date: 31/03/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : MARCH 2022 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar

Sr. No.	Particulars	Unit	Core Zone - 1. Near Weigh Bridge			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01.	Date of sampling	----	29/03/2022	29/03/2022	29/03/2022	29/03/2022
02.	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03.	Dominant Wind Direction (From)	----	NE	NE	NE	NE
04.	Average Wind Speed	Km/Hrs	1 to 15	1 to 15	1 to 15	1 to 15
05.	Average flow rate during sampling	m3/minutes	1.12	1.18	1.18	1.15
06.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
07.	Permissible Limits of PM 2.5	$\mu\text{g}/\text{m}^3$	60	60	60	60
08.	Measured Concentration of PM 2.5	$\mu\text{g}/\text{m}^3$	33.4	31.6	32.8	32.6
09.	Permissible Limits of PM 10	$\mu\text{g}/\text{m}^3$	100	100	100	100
10.	Measured Concentration of PM 10	$\mu\text{g}/\text{m}^3$	51.2	49.6	43.7	47.8
11.	Permissible Limits of SO ₂	$\mu\text{g}/\text{m}^3$	80	80	80	80
12.	Measured Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	12.2	11.6	10.9	11.5
13.	Permissible Limits of NO ₂	$\mu\text{g}/\text{m}^3$	80	80	80	80
14.	Measured Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	18.5	17.4	15.9	18.6

Instrument Used : 11 Foreign ROS, Model No. AAS - 21/BL Gaseous Sampling Kit-AAS 102 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Adish

Analyst



Royal

Environment Auditing & Consultancy Service

303/304 Shivalik-7 Bldg. Raj Arvind Complex, Rajkot - 360 002

Ph : +91 281 2360855 • Email : royaleenvironment@rediffmail.com • admin@royalconsultancy.com

Ref. No. : AE/28/03/2022/122

Date : 31/03/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtardi Mines : MARCH 2022 (2nd Visit)

Name of company : Shree Digvijay Cement Company Limited

Cevijaygram - 361 140.

District : Jamnagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs.
			1 st 8:00 Hrs.	2 nd 8:00 Hrs.	3 rd 8:00 Hrs.	
01	Date of sampling		29/03/2022	29/03/2022	29/03/2022	29/03/2022
02	Duration of Sampling	Hrs.	8.00	8.00	8.00	24.00
03	Dominant Wind Direction (From)	--	NE	NE	NE	NE
04	Average Wind Speed	Km/Hrs	1 to 16	1 to 15	1 to 16	1 to 16
05	Average flow rate during sampling	m ³ /minutes	1.15	1.12	1.17	1.15
06	Average flow rate for Gas sampling	l PM	2.0	2.0	2.0	2.0
07	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
08	Measured Concentration of PM 2.5	µg/m ³	32.5	33.6	28.4	31.6
09	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10	Measured Concentration of PM 10	µg/m ³	63.5	58.8	50.7	54.3
11	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12	Measured Concentration of SO ₂	µg/m ³	14.5	11.5	12.9	13.3
13	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14	Measured Concentration of NO ₂	µg/m ³	15.2	21.2	20.7	18.4

Instrument used : 1) Flo-Flow RDS, Model No. AAS-2176L, Gaseous Sampling Kit-AAS-109 & PM 2.5 Sampler AAS-127

Calculation Done on : 27/02/2022

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Analyst



Ref. No. : 797/10/2021-22

Date: 30/10/2021

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140,

District : Jamnagar.

Sampling Date : 07/10/2021

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
Time of sampling		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	54.2	42.1
02.	Chorbedi Mines Adm. Building	50.0	34.6
03.	Pachhtar and Pachhtardi Mines Adm. Building	52.8	37.4

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : SL- 4001. (Lutron Make)

Calibration done on : 12/09/2020

Range : (A) - 30 to 80 dB, (B) - 50 to 100 dB, (C) - 80 to 130 dB.

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bai Adalat, Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2360695 ■ E-mail: royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 798/10/2021-22

Date: 30/10/2021

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 07/10/2021

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer D8 - R (CAT)	82.6	77.8	69.5
02.	Hyundai - 140 Excavator	86.7	78.8	73.5
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Dozer BD 355 Dozer(New)	87.3	75.5	68.9
04.	Hyundai - 140 (LC - 9)	88.3	82.4	78.8
05.	Tata - 200 Excavator	85.2	82.4	79.6
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Temporary Discontinued - Not Running during visit	---	---	---

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Calibration is Done On : 12/09/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bai Adalat, Gondal Road, RAJKOT - 360 002

Ph. : +91 281 2360695 • E-mail : royalsenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 897/11/2021-22

Date: 30/11/2021

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 12/11/2021

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	52.3	44.3
02.	Chorbedi Mines Adm. Building	48.6	37.5
03.	Pachhtar and Pachhtardi Mines Adm. Building	51.2	46.6

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : IL-006719. (SIGMA)

Calibration done on : 30/09/2021

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002

Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 898/11/2021-22

Date: 30/11/2021

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 12/11/2021

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer D8 - N (CAT)	81.8	74.3	65.8
02.	Hyundai - 140 (LC - 9)	84.7	76.7	71.3
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Dozer BD 355 Dozer(New)	86.5	77.2	67.5
04.	Hyundai - 140 Excavator	85.7	80.4	74.3
05.	Tata - 200 Excavator	83.9	79.3	73.6
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Temporary Discontinued - Not Running during visit	---	---	---

Instruments used : Sound level meter, model : IL-006719. (SIGMA)

Calibration done on : 30/09/2021

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Ashish

Analyst



Royal

Environment Auditing & Consultancy Service

350-004, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002

Ph : +91 281 2380685 ■ E-mail : royaleenvironment@lha.com ■ admin@royalconsultancy.com

Ref. No. : 997/12/2021-22

Date: 27/12/2021

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 10/12/2021

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
Time of sampling		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	49.7	40.1
02.	Chorbedi Mines Adm. Building	45.1	35.3
03.	Pachhtar and Pachhtardi Mines Adm. Building	47.9	41.8

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : IL-006719, (SIGMA)

Calibration done on : 30/09/2021

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 998/12/2021-22

Date: 27/12/2021

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 10/12/2021

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer D8 - N (CAT)	77.4	78.6	69.2
02.	Hyundai - 140 (LC - 9)	79.1	81.7	66.8
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Dozer BD 355 Dozer(New) - Not Running during visit	---	---	---
04.	Hyundai - 140 Excavator - Not Running during visit	---	---	---
05.	Tata - 200 Excavator - Not Running during visit	---	---	---
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Dozer D8 - N (CAT)	80.6	78.4	70.5
07.	Hyundai - 140 (LC - 9)	81.3	79.8	72.6

Instruments used : Sound level meter, model : IL-006719, (SIGMA)

Calibration done on : 30/09/2021

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bai Adalat, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 197/01/2021-22

Date: 01/02/2022

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 08/01/2022

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	52.1	42.3
02.	Chorbedi Mines Adm. Building	48.5	39.8
03.	Pachhtar and Pachhtardi Mines Adm. Building	50.3	43.1

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : IL-006719. (SIGMA)

Calibration done on : 30/09/2021

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2360635 ■ E-mail: royalservice@live.com ■ admin@royalconsultancy.com

Ref. No. : 198/01/2021-22

Date: 01/02/2022

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 08/01/2022

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer D8 - N (CAT)	75.7	72.9	66.5
02.	Hyundai - 140 (LC - 9)	81.4	77.6	68.6
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Dozer BD 355 Dozer(New)	80.6	76.2	70.9
04.	Hyundai - 140 Excavator	77.8	71.4	65.6
05.	Tata - 200 Excavator	81.1	78.5	71.2
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Dozer D8 - N (CAT)	78.2	75.8	70.6
07.	Hyundai - 140 (LC - 9)	80.4	76.5	69.8

Instruments used : Sound level meter, model : IL-006719. (SIGMA)

Calibration done on : 30/09/2021

Royal Environment Auditing & Consultancy Service



Ashish
Analyst

**Royal****Environment Auditing & Consultancy Service**

303-304, Shivalik-7, B/s. Ba. Adalati Gondal Road, RAJKOT - 360 002

Ph: +91 281 2360695 • E-mail: royaleenvironment@1-ve.com • admin@royalconsultancy.com

Ref. No. : 297/02/2021-22

Date: 28/02/2022

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT**Name of company : Shree Digvijay Cement Company Limited**

Digvijaygram - 361 140.

District : Jamnagar.

Sampling Date : 09/02/2022

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	50.8	41.7
02	Chorbedi Mines Adm. Building	46.1	35.4
03.	Pachhtar and Pachhtardi Mines Adm. Building	52.5	40.2

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2010 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model IL-06716 (SIGMA)

Calibration done on : 30/09/2021



Royal Environment Auditing & Consultancy Service

Ashish
Analyst



Royal

Environment Auditing & Consultancy Service

333-304, Shree R-7, B/s. Bell Ardebi, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. 298/G2/2021-22

Date: 28/02/2022

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 381 140.

District : Jamnagar

Sampling Date : 09/02/2022

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01.	Dozer D8 - N (CAT)	72.3	69.7	61.5
02.	Hyundai - 140 (LC - 9)	78.1	74.6	63.2
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03.	Dozer BD 355 Dozer(New)	77.6	73.9	68.1
04.	Hyundai - 140 Excavator	79.6	69.4	60.2
05.	Tata - 200 Excavator	83.2	75.7	67.6
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06.	Dozer D8 - N (CAT)	80.1	74.0	66.3
07.	Hyundai - 140 (LC - 9)	78.5	72.9	65.7

Instruments used : Sound level meter, model : IL-036719, (SIGMA)

Calibration done on : 30/08/2021

Royal Environment Auditing & Consultancy Service



Ashish

Analyst

**Royal****Environment Auditing & Consultancy Service**

303-304, Sitwadi-7, B/S. Bar Adalat, Gandhinagar, RAJKOT - 361 002.

Ph : +91 281 2360695 • E-mail : royalenvironment@live.com • admin@royalconsultancy.com

Ref No : 397/03/2021-22

Date: 31/03/2022

REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar.

Sampling Date : 09/03/2022

Sr. No.	Location of Sampling	Noise Level Avg. in dB (A)	
Time of sampling		Day Time 06:00 AM to 10:00 PM	Night Time 10:00 PM to 06:00 AM
01.	GOP Mines Adm. Building	53.5	42.8
02	Chorbedi Mines Adm. Building	49.2	33.6
03.	Pachhtar and Pachhtardi Mines Adm Building	50.9	43.5

CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	65.0	45.0
D	Silence Zone	50.0	40.0

Reference : Limits As Per The Noise Pollution Regulation and Control Rules, 2000 Schedule See Rule 3(i) and 4(i)

Instruments used : Sound level meter model : II -006/19 (SIGMA)

Calibration done on : 30/09/2021



Royal Environment Auditing & Consultancy Service

Analyst



Royal

Environment Auditing & Consultancy Service

350/304, Scheme 1, E/s. 3a Adalat Girda Road, RAJKOT - 360 022

Ph: +91 251 2360595 • E-mail: royalenv.audit@gmail.com • admin@royalconsultancy.com

Ref No: 398/03/2021-22

Date: 31/03/2022

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140

District : Jamnagar

Sampling Date : 09/03/2022

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		90 dBA		
CHORBEDI MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
01	Dozer D8 - N (CAT)	70.6	68.5	60.3
02	Hyundai - 140 (LC - 9)	76.9	72.5	65.9
Pachhtar and Pachhtardi Mines		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
03	Dozer BD 355 Dozer/Newi	79.5	71.5	66.2
04	Hyundai - 140 Excavator	76.2	67.5	62.4
05	Tata - 200 Excavator	81.6	72.9	64.8
GOP MINES		Inside Cabin	15 Mtr. Away from m/c.	50 Mtr. Away from m/c.
06	Dozer D8 - N (CAT)	81.5	76.4	64.5
07	Hyundai - 140 (LC - 9)	76.9	71.2	67.0

Instruments used: Sound level meter, model: IL-005715 (SIGMA)

Calibration done on: 30/09/2021

Royal Environment Auditing & Consultancy Service



Ashish

Analyst

PACHHTAR (COMPOSITE) LIMESTONE MINES
HALF YEARLY EXPENDITURE STATEMENT
FOR ENVIRONMENT MANAGEMENT
From the period of 2021-22

S. NO.	WORK	Expenditure in Rs From October 21 to March 22
1	Ambient Air & Noise Monitoring	77760
2	Water Sprinkling on haul roads	46875
3	Purchasing of Sapling	0
4	Purchasing of Soil	0
5	Plantation charge	0
6	Recurring Expenses for Security and Maintenance of Plantation	73889
	Total	198524

