



By Email

Pachdi/MoEF/HYC/A/302/2955

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-11015/240/2016-IA. II (M), dated 16/10/2020 in respect of **Pachhtardi Limestone Mines**, pertaining to Shree Digvijay Cement Co Ltd, for the period of **Oct. 2021 to March-2022**.

Sir/Madam,

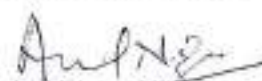
As required, we are submitting herewith Point wise compliance status to various stipulations, as laid-down in Environmental Clearance letter No. J-11015/240/2016-IA. II (M), dated 16/10/2020 with supporting documents, is being enclosed with the following Annexure:

- | | |
|--|--------------|
| 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

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PACHHTARDI 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-11015/240/2016-IA. II (M) dated 16.10.2020:

Sl	CONDITIONS	COMPLIANCE STATUS						
A.	Specific conditions:							
i.	The Project proponent shall undertake the plantation in 7.5 m width all along the boundary of the mining lease including stone parapet walls of 1.5' X 5' dimension shall all along the ML boundary and avenue plantation on either side of the village road within the first year of the commencement of mining operations with a native, broad leaved tree sapling of not less than 12 feet height and maintenance of the same shall be carried.	Being Complied. Plantation details are as under: <table><tr><th>Year</th><th>Nos of Saplings planted</th><th>Name</th></tr><tr><td>2021-22</td><td>200</td><td>Neem & Gulmohar</td></tr></table>	Year	Nos of Saplings planted	Name	2021-22	200	Neem & Gulmohar
Year	Nos of Saplings planted	Name						
2021-22	200	Neem & Gulmohar						
ii.	The project proponent shall take all precautions to see that there is no impact on school function till it is shifted to new agreed premises in a time bound manner within 2 years from the date of opening of mine. A safe distance of 300 meters should be maintained from the school, in which there should not be mining. In the mining area adjacent to 300 meters boundary, mining should be carried out without use of explosives and with controlled mining activities, so that the school activities are not affected due to noise, vibration and dust. Construction of new school building should be started as early as possible, and all efforts should be made to see that school in new premises as agreed by Panchayat begins immediately after that.	The Precautionary measures for no impact in school functions are being implemented as under: 1. Mining started from other side i.e. 1000 mtrs away from the School. 2. Transportation route of Limestone is being carried on from farthest possible distance > 1000 mtrs from the School. 3. Excavation is being carried out by an Eco-Friendly mining method i.e. with the use of Ripper-Dozer and Excavator combination (Without Drilling & Blasting) to minimise Noise, dust and Vibrations. 4. Regular monitoring of Ambient Air Quality & Noise monitoring is being carried out & results are well within the stipulated norms. The land identified for shifting of school is under finalisation by the Education Department, as advised by the Collector vide his order no.						

Sl	CONDITIONS	COMPLIANCE STATUS
		JAMAN/1/VASHI/1612//2019 dated 20.12.2019 The capital budget for construction of the school building have been sanctioned by the Management. As soon as it is finalised; Construction of new school building shall be started for its completion in time bound manner.
iii.	No drilling and blasting shall be carried. Mining shall be carried, as proposed by the PP, by using Surface Miner with loader combination or by Ripper dozer and Excavator combination.	Being complied. There is no Drilling and blasting. Mining operations are being carried out by the using of Ripper Dozer and Excavator combination an Eco-Friendly mining. 
iv.	The project proponent shall implement the conservation plan for Schedule-I species reported namely, Indian Peafowl, Leopard, monitor lizard in consultation with State Forest Department including the recommendations of the Chief wildlife warden.	Noted and being complied. Fund details as given in approved WLCP are as under: 
Status of Implementation of Conservation Plan for Schedule-I species reported namely, Indian Peafowl, Leopard, monitor lizard in the Buffer Zone of Pachhtardi Limestone Mines.		
Proposals		Amount
		Status of Compliances

SI	CONDITIONS	COMPLIANCE STATUS
	(In Lac Rs.)	
	0.8	
Proposals	Amount (In Lac Rs.)	Status of Compliances
Planting the woody shrubs species,grassland development for habitat improvement in consultation with forest department.	1	
Purchase and Donation of one utility vehicle and one tractor with water tanker (3KL-4 KL) to the forest department agencies.	5	Complied withpuchasing and donating utility vehicle to forest department. 
Wages for driver of water tanker and recurring expenses for planting and watering facility in forest area.	0.3	
Awareness Programme	0.5	
Farmer's Awareness Camp	0.2	
Close collation from forest department for construction of infrastructure,rescue wards,feterinary fund,cages etc for conservation of wild life.	0.5	Appreciation Letter from DCF is as under: Porbandar for providing Bolero Camper.

Sl	CONDITIONS	COMPLIANCE STATUS																																						
	Third party monitoring for the work allotted in this plan towards conservation of wildlife and Biodiversity	0.1																																						
																																								
	Total	8.9																																						
v.	The project proponent shall implement the measures suggested in the EIA/EMP report inter alia, including Dust control measures, Garland drains, plantation along the boundary and avenue plantation, Reclamation / Rehabilitation of mined out area, etc.	Being complied. Mining is being carried as per approved mining plan and subsequently, EMP measures are being implemented.																																						
vi	The project proponent undertakes the activities proposed under Corporate Environmental Responsibility (CER) as per the guidelines of Ministry's OM dated 1st May 2018.	Noted & being complied. <table><tr><th rowspan="2">S. No.</th><th rowspan="2">Activity</th><th colspan="3">CER Budget (Rs. in Lakhs)</th></tr><tr><th>First year</th><th>Second year</th><th>Total</th></tr><tr><td>1</td><td>Education Providing Tutoring Aids for Schools like Annual projects, Models, posters, Charts, Maps, Flash cards, General knowledge, Bulletin board, overhead projector etc. Improvements in infrastructures like provision of Vidyalayas at the Schools, supports in construction and maintenance of playground.</td><td>1.0</td><td>—</td><td>1.0</td></tr><tr><td>2</td><td>Health & Sanitation Providing Basic Sanitary equipment to PUC like SP, latrine, Electric Auto Clans, SS, Dressing, Toilet, sanitary toilet. Providing Basic Sanitary equipment to PUC like day to night filling, Adalats, Semi-flush, Hospital Beds, Electric, High-pressure hoses.</td><td>—</td><td>1.0</td><td>1.0</td></tr><tr><td>3</td><td>Skill improvement Skill development programme like tailoring, classes, computer training (laptops, tablets and computers will be provided by Company).</td><td>2.0</td><td>—</td><td>2.0</td></tr><tr><td>4</td><td>Infra improvement Renovation and Development of Sanitation, (for Community) at Panchayat. Providing Solar Powered Street Lights in Panchayat village.</td><td>1.0</td><td>—</td><td>1.0</td></tr><tr><td>5</td><td>Drinking Water Arrangement of RO facility for safe drinking water supply in schools and Gram Panchayat. Deepening and maintenance of water pond.</td><td>1.0</td><td>—</td><td>1.0</td></tr><tr><td></td><td>Total</td><td>5.0</td><td>2.0</td><td>7.0</td></tr></table>	S. No.	Activity	CER Budget (Rs. in Lakhs)			First year	Second year	Total	1	Education Providing Tutoring Aids for Schools like Annual projects, Models, posters, Charts, Maps, Flash cards, General knowledge, Bulletin board, overhead projector etc. Improvements in infrastructures like provision of Vidyalayas at the Schools, supports in construction and maintenance of playground.	1.0	—	1.0	2	Health & Sanitation Providing Basic Sanitary equipment to PUC like SP, latrine, Electric Auto Clans, SS, Dressing, Toilet, sanitary toilet. Providing Basic Sanitary equipment to PUC like day to night filling, Adalats, Semi-flush, Hospital Beds, Electric, High-pressure hoses.	—	1.0	1.0	3	Skill improvement Skill development programme like tailoring, classes, computer training (laptops, tablets and computers will be provided by Company).	2.0	—	2.0	4	Infra improvement Renovation and Development of Sanitation, (for Community) at Panchayat. Providing Solar Powered Street Lights in Panchayat village.	1.0	—	1.0	5	Drinking Water Arrangement of RO facility for safe drinking water supply in schools and Gram Panchayat. Deepening and maintenance of water pond.	1.0	—	1.0		Total	5.0	2.0	7.0
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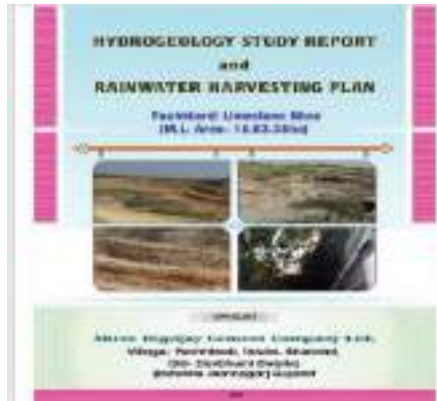
SI	CONDITIONS	COMPLIANCE STATUS
	   	
	Semi Fowler Bed Water Cooler Tailoring Classes Invoice	
B.	Standards conditions:	
I	Statutory compliance	
1)	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	Noted.
2)	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	Noted.
3)	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.	Noted.
4)	The Project Proponent shall follow the mitigation measures provided in MoEF&CC's Office Memorandum No. Z-11013/57/2014-IA. II (M), dated 29th October 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	Noted.

Sl	CONDITIONS	COMPLIANCE STATUS
5)	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal	Copy of clearance letter have been submitted to all concerned Panchayat. 
6)	State Pollution Control Board/Committee shall be responsible for display of this EC letter at its regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.	Noted; the condition is related to GPCB.
7)	The project authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF& CC Regional Office for compliance and record.	Complied. The advertisement has been published in two local newspapers dated 22.10.2020. The publication has appeared in the - (1) Times of India - Ahmedabad Edition (2) Divya Bhaskar - Rajkot edition.

SI	CONDITIONS	COMPLIANCE STATUS
	 	
8)	The Project Proponent shall inform the MoEF &CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the pars 11 of EIA Notification, 2006 as amended from time to time.	Noted.
II.	Air quality monitoring and preservation	
9)	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B- 29016/20/90/PC/I dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site	Noted. Being complied. Ambient air quality is being monitored regularly on monthly basis. The monitoring results for the period from October 21 to March 22 is attached herewith as Annexure B 
10)	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be	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.

Sl	CONDITIONS	COMPLIANCE STATUS
	regularly controlled by installation of required equipment/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF & CC/ Central Pollution Control Board.	 Ambient air quality is being monitored regularly and results are well within the stipulated norms. Analysis Report from NABL Lab. is given above.
III.	Water quality monitoring and preservation	
11)	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro- geological study of the area.	Being complied. There is no intersection of water table at any stage. The water table in the region is 25 Mtrs & mining is proposed at 20 Mtrs NOC from CGWA has been obtained. 
12)	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six- monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department, State Pollution Control Board.	Being complied.  

SI	CONDITIONS	COMPLIANCE STATUS
13)	The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis	Noted. There is no surface water body i.e. Nalla (s), streams, or perennial river within the lease area. No wastewater generated from mining operations.
14)	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, 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, Forest and Climate Change may also be referred in this regard.	Not applicable, as there is no wastewater being generated from mining operations. The domestic wastewater generated from office toilets is being disposed off through soak pit & septic tank.
15)	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Ground water Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually.	Noted. Hydrogeological Study Report and Rainwater plan is prepared by JME Consultants for systematic Rainwater Harvesting in Pachtardi Mines. The report with proposals is submitted to Regional Office, CGWB, Ahmedabad along with application for Ground Water abstraction. Work for one large village is taken by SDCL. Deepening of pond to be done.

Sl	CONDITIONS	COMPLIANCE STATUS
		Mine pits will also be created as water reservoir which serves as recharge ponds. 
16)	Industrial wastewater (workshop and wastewater from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.	Repair and maintenance of vehicles is being done at Tata Corgo workshop, Jamnagar. All maintenance & treatment facilities like ETP are available as per the norms. A photograph is attached for your kind reference. 
17)	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.	Noted.
IV.	Noise and Vibration Monitoring and Prevention.	
18)	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	The condition is not applicable, as there is no blasting.
19)	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness	Being complied. Mining operations is restricted to daytime only.

Sl	CONDITIONS	COMPLIANCE STATUS
	and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.	Noise monitoring is being carried out regularly and results are well within the stipulated norms. The Noise report for the period October 21 to March 22 is attached herewith as Annexure C . 
20)	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	All precautionary measures are being taken for control of noise levels in the work environment 1. Noise monitoring is being done regularly. 2. Machineries like Dozer-Ripper is provided with AC cabin for operator which protects the operator from heat, noise & dust. 3. Timely maintenance of mining machineries is being carried out. 4. PPEs ear plugs / earmuffs is being provided to operators. 5. Training is being imparted on awareness on safety and health. 6. Monitoring results on AAQ and noise level for the period October-2021 to March-2022 is enclosed as Annexure B & C.
V.	Mining plan	
21)	The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, OB & dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).	Noted & being complied. Review of Mining Plan has been approved on 28.01.2021. Mining is being carried out as per approved mining plan,

SI	CONDITIONS	COMPLIANCE STATUS
22)	The Mining shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.	Being complied. Mining is being carried out as per approved mining plan. Compliance reports are being submitted regularly to all concerned offices/department in stipulated time period.
VI	Land Reclamation	
23)	The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.	Not applicable. There are no Overburden, hence no waste dumps. There are some thin patches of soil cover which are scraped during excavation and being used simultaneously for plantation purpose. Hence, there is no provision for separate stacking of topsoil.
24)	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.	Not applicable. There are no waste dumps.
25)	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Topsoil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be desilted regularly, particularly after monsoon season, and maintained properly	Shall be complied as the mining progresses and Mining Pits are developed. The mining pit shall be converted in the water reservoirs. Dewatering of Mine Water shall not be done. The accumulated rainwater in the Pit shall be utilised for watering the mine area, roads, green belt development, plantation etc. in subsequent year.
26)	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining	Noted and shall be done.

SI	CONDITIONS	COMPLIANCE STATUS
	water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	
VII.	Transportation	
27)	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport]	Being complied. Mineral is being despatched through “bypass” road by providing tarpaulin covered trucks. 
28)	The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.	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. Mineral is being despatched in Tarpaulin covered trucks.

SI	CONDITIONS	COMPLIANCE STATUS
VIII	Green Belt	
29)	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	Plantation is being done as per details provided in approved mining plan. 200 nos sapling have been planted in the year 2021-22. 
30)	The Project Proponent shall carryout plantation / afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered the density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.	Noted. Plantation is being done as per details provided in approved mining plan. 200 nos sapling have been planted in the year 2021-22.
31)	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.	Noted and shall be done.
IX.	Public Hearing and Human Health	
32)	Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical	Not applicable. This is mining project.

SI	CONDITIONS	COMPLIANCE STATUS																																													
	health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic wastewater should be treated with STP in order to avoid contamination of underground water.																																														
X	Corporate Environment Responsibility																																														
33)	The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF& CC annually along with audited statement	Noted & being complied. <table><thead><tr><th rowspan="2">#</th><th rowspan="2">Area</th><th rowspan="2">Activity (at Village <u>PAHARUK, TADONA, Bihari-Bharachpur & Mohaboi</u>)</th><th colspan="3">CER Budget (Rupees Lakhs)</th></tr><tr><th>First year</th><th>Second year</th><th>Total</th></tr></thead><tbody><tr><td>1</td><td>Education</td><td>Providing Teaching Aids for Schools like Animal models, Models, posters, Charts, Maps, Flash cards, Blackboard, Bulletin board, overhead projector etc. Improvements in infrastructures like provision of Villages of two Schools, supports in construction and maintenance of playground.</td><td>1.0</td><td>—</td><td>1.0</td></tr><tr><td>2</td><td>Health & Sanitation</td><td>Providing Basic Necessary equipment to PHC like BP instrument, Electric Auto Cycle, SS Dressing Trolley, instrument Trolley. Providing Basic Necessary equipment to PHC like Oxy-Kit with filling cylinder, Semi Fowler Hospital Bed, Electronic Weighing scales.</td><td>—</td><td>1.0</td><td>1.0</td></tr><tr><td>3</td><td>S&B Improvement</td><td>Skill development programme like tailoring classes, computer training (Leaving machines and computers will be provided by Company)</td><td>2.0</td><td>—</td><td>2.0</td></tr><tr><td>4</td><td>Infra Improvement</td><td>Renovation and Development of <u>Shashub, (Shri Ganesh)</u> at <u>Paoharuk</u>. Providing Solar Powered Street Lights in <u>Paoharuk</u> village</td><td>1.0</td><td>—</td><td>1.0</td></tr><tr><td>5</td><td>Drinking Water</td><td>Arrangement of RO facility for safe drinking water supply in schools and Gram Panchayat. Dispensing and maintenance of water cons.</td><td>1.0</td><td>—</td><td>1.0</td></tr><tr><td colspan="3">Total</td><td>5.0</td><td>1.0</td><td>6.0</td></tr></tbody></table>	#	Area	Activity (at Village <u>PAHARUK, TADONA, Bihari-Bharachpur & Mohaboi</u>)	CER Budget (Rupees Lakhs)			First year	Second year	Total	1	Education	Providing Teaching Aids for Schools like Animal models, Models, posters, Charts, Maps, Flash cards, Blackboard, Bulletin board, overhead projector etc. Improvements in infrastructures like provision of Villages of two Schools, supports in construction and maintenance of playground.	1.0	—	1.0	2	Health & Sanitation	Providing Basic Necessary equipment to PHC like BP instrument, Electric Auto Cycle, SS Dressing Trolley, instrument Trolley. Providing Basic Necessary equipment to PHC like Oxy-Kit with filling cylinder, Semi Fowler Hospital Bed, Electronic Weighing scales.	—	1.0	1.0	3	S&B Improvement	Skill development programme like tailoring classes, computer training (Leaving machines and computers will be provided by Company)	2.0	—	2.0	4	Infra Improvement	Renovation and Development of <u>Shashub, (Shri Ganesh)</u> at <u>Paoharuk</u> . Providing Solar Powered Street Lights in <u>Paoharuk</u> village	1.0	—	1.0	5	Drinking Water	Arrangement of RO facility for safe drinking water supply in schools and Gram Panchayat. Dispensing and maintenance of water cons.	1.0	—	1.0	Total			5.0	1.0	6.0
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Total			5.0	1.0	6.0																																										
	    Semi Fowler Bed Water Cooler Tailoring Classes Invoice																																														
XI.	Miscellaneous																																														
34)	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF& CC.	Noted & shall be complied.																																													

SI	CONDITIONS	COMPLIANCE STATUS
35)	The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work	Complied. Copy of Notice for opening of mine has been sent vide our letter No. Pacd/ IBM Notice/ A/207/2659 dated 16.02.22 
36)	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	Compliance reports are being submitted regularly via email to all concerned offices/departments.
37)	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF& CC.	A Separate Environmental Management Cell has been set-up. The details given under. 
38)	The concerned Regional Office of the MoEF& CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF& CC officer(s) by furnishing the requisite data / information / monitoring reports.	Noted.
39)	In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	Noted.

SI	CONDITIONS	COMPLIANCE STATUS
40)	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted.
41)	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attracts action under the provisions of Environment (Protection) Act, 1986.	Noted.
42)	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court and any other Court of Law relating to the subject matter.	Noted.
43)	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted

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.
Pachhtardi Limestone Mine
Survey No.78/P (Old) & 141 & 208 (New),
Village- Pachhtardi, Taluka- Bhanvad,
Distt. Devbhoomi Dwarka (Gujarat)**
2. Industry Category :
Primary: (STC Code) **Mining Industry**
Secondary: (SIC Code)
3. Production Capacity : **3.5 Lakh tones/Annum**
4. Year of Establishment :
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)	:	0.10 L
Dust Suppression	:	0.50 L
Plantation	:	0.00 L

(*) 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		0 L	13520 L
8	Lubricant oil		0 L	20 L
9	Grease		0 Kg	19.5 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 –

Parameter	Time Weighted Avg.	Concentration in Ambient Air	
		Industrial, residential, rural and other area	Ecologically Sensitive area (notified by Central Govt.)
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)	0 L	80 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 contemplated for reducing dust in mines.

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

PART – I

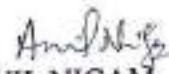
Any other particulars for improving the quality of the environment

Following are various measures taken by us: -

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

Date: 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	m3/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, Bldg. Dal Amlak, Gondal Road, RAJKOT - 360 002.

Ph: +91 281 2380635 • E-mail: royaleenvironment@gmail.com • admin@royalconsultancy.com

Ref. No. : 694/10/2021-22

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	m ³ /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	60	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	34.5	36.7	35.1	36.4
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	72.6	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	11.6	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, Gasbust Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



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303-304, Shilpek-7, Bha. Bel Adalaj, Gondal Road, RAJKOT - 360 002.

Ph., +91 281 2340695 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. 095/10/2021-22

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 - 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	—	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	m ³ /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	43.5	40.5	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	73.0	75.6	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	18.1	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	22.6	23.5	25.1	23.8

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

Calibration Done on : 17/08/2020

Royal Environment Auditing & Consultancy Service



Ashish
Analyst



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303-304, Shree-7, B.A. Bel Adalat, Gondal Road, RAJKOT - 360 002

Ph: +91 261 2366685 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 796/10/2021-22

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	—	06/10/2021	06/10/2021	07/10/2021	07/10/2021
02.	Duration of Sampling	Hrs	6.00	6.00	6.00	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	m ³ /minutes	1.10	1.20	1.20	1.17
06.	Average flow rate for 24hr 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	66.8	66.9	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	13.6
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 - 217BL, Gaseous Sampling Kit - AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Date on : 17/08/2020

Royal Environment Auditing & Consultancy Service



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303-304, Shivalik-7, B/6 Bal Adar, Gondal Road, RAJKOT - 360 002

Ph: +91 281 2300695 • E-mail: royal.environment@he.com • admin@royalconsultancy.com

Ref No.:854/10/2021-22

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	26/10/2021
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.	1 to 13	1 to 13	1 to 13	1 to 13
05.	Average flow rate during sampling	m ³ /minutes	1.19	1.15	1.14	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	33.6	31.6	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	61.0	59.7	55.1	58.8
11.	Permissible Limits of SO ₂	µg/m ³	60	60	60	60
12.	Measured Concentration of SO ₂	µg/m ³	14.2	13.2	11.0	13.1
13.	Permissible Limits of NO ₂	µg/m ³	60	60	60	60
14.	Measured Concentration of NO ₂	µg/m ³	26.4	21.3	23.6	23.4

Instrument Used: 1) Ecotech RD5, Model No. AAS - 217BL, Gaseous Sampling Kit: AAS 109.5 PM 2.5 Sampler AAS 127

Calibration Certificate: 17/05/2020

Royal Environment Auditing & Consultancy Service



Ashish

Analyst



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

Ref. No. 855/10/2021-22

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 - 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	---	24/10/2021	24/10/2021	26/10/2021	26/10/2021
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	1.15	1.17	1.14	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	60	60	60
08.	Measured Concentration of PM 2.5	µg/m ³	32.8	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	55.6	51.2	53.4	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	15.4	12.6	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	27.8	25.5	23.8

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

Calibrate Done on: 17/06/2020

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Ref No : 759/10/2021-22

Date: 30/10/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and Pachhtard 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.	Use of sampling	—	24/10/2021	24/10/2021	25/10/2021	26/10/2021
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.	4 to 14	4 to 14	3 to 14	3 to 14
05.	Average flow rate during sampling	minutes	1.12	1.16	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	µgm ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µgm ³	35.6	32.8	33.9	34.1
09.	Permissible Limits of PM 10	µgm ³	100	100	100	100
10.	Measured Concentration of PM 10	µgm ³	64.5	66.9	63.6	66.0
11.	Permissible Limits of SO ₂	µgm ³	80	80	80	80
12.	Measured Concentration of SO ₂	µgm ³	15.2	14.3	12.2	13.9
13.	Permissible Limits of NO ₂	µgm ³	80	80	80	80
14.	Measured Concentration of NO ₂	µgm ³	26.6	23.1	22.6	24.2

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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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 /minutes	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	104	100	106	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	13.8	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	23.8	23.8

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

Cal brate Done on : 17/08/2020

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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	12.5	12.3
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	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

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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, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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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, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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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

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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, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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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	1.18	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	34.5	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 - 217BL, Gaseous Sampling Kit: AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on: 17/06/2020

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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, Gasecuse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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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	50.7	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 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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Ref. No. :093/12/2021-22

Date: 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer 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	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	—	08/12/2021	08/12/2021	09/12/2021	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 12	3 to 13	3 to 13	3 to 12
05.	Average flow rate during sampling	m3/minutes	1.20	1.15	1.15	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	29.4	34.9	30.8	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	13.6	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	18.4	21.4

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

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Ref. No.: B94/12/2021-22

Date: 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhar 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.	0.00	0.00	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	1.15	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	µg/m ³	60	60	60	50
08.	Measured Concentration of PM 2.5	µg/m ³	36.9	29.7	31.8	32.8
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	82.1	87.3	63.4	64.3
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	24.8	19.7	25.4	23.3

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

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Ref No : 895/12/2021 22

Date: 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhtar and PachMardi Mines : DECEMBER 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	—	08/12/2021	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	m ³ /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	50	50	50	50
08.	Measured Concentration of PM 2.5	µg/m ³	40.1	38.9	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	56.1
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	22.6

Instrument used : 1) Ecotech RDS, Model No. AAS - 2178L, Gaseous Sampling K2-AAS 100 & PM 2.5 Sampler AAS 127

Calculation Done on : 17/06/2020

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Ref. No : RSE/12/2021-22

Date: 27/12/2021

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachitar and Pachmardi Mines :DECEMBER 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	---	08/12/2021	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	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	35.4	28.7	31.6	31.9
09.	Permissible Limits of PM 10	µg/m ³	106	108	108	108
10.	Measured Concentration of PM 10	µg/m ³	58.1	65.9	69.7	61.2
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	23.8	18.1	20.6

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

Calibrate Done on : 17/02/2020

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Ref. No.: 1054/12/2021-22

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 - 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	---	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)	---	NN	NN	NN	NN
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 /min	1.10	1.20	1.18	1.16
06.	Average flow rate for Gas sampling	LFM	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	34.8	30.7	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	60.8	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	12.5	12.7
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	21.9	18.9	19.3	20.0

Instrument used : 1) Ecotech RDS, Model No. AAS - 2" ZBL, Gaseous Sampling Kit: AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 17/06/2020

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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 - 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	---	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	3 to 16	3 to 16	3 to 16
05.	Average flow rate during sampling	m3/minute	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	180	180	180	180
10.	Measured Concentration of PM 10	µg/m ³	46.8	51.3	47.4	48.5
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	11.4
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	20.6	19.4	25.5	21.8

Instrument used : 1) Ecotech RDS, Model No. AAS - 2178L, Gasbottle Sampling Kit- AAS 100 & PM 2.5 Sampler AAS 127

Calibration Done on : 17/08/2020

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Ref. No. -056/12/2021-22

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 - 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	---	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 6	3 to 6	3 to 6	3 to 6
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	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	35.7	29.4	30.7	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	51.5	56.6	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) Fastech RDS, Model No. AA7, + 2127M Continuous Sampling Kit- AAS 700 & PM 2.5 Sampler AA8 127

Calibration Done on : 17/08/2020

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Ref No.: 105712/2021-22

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 - 381 140.

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	---	21/12/2021	21/12/2021	22/12/2021	23/12/2021
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	m3/minutes	1.10	1.20	1.15	1.16
06.	Average flow rate for Gas sampling	LPH	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	46.7	45.5	38.4	43.6
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	23.4	18.6	21.3	21.2

Instruments used : 1) Ecotech RQS, Model No. AAS - 217BL, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sample- AAS 127

Calibrate Done on: 17/06/2020

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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	m3/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, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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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	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	50	50	50	50
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 - 2178L, Gaseous Sampling Kit - AAS 106 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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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	35.8	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, Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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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	14.6	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	16.9	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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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	80	80	80	80
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 - 2178L, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Ref. No.: 2058/01/2021-22

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 = 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	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	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, Gas/Gaseous Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 27/12/2021

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Ref. No. :294/02/2021-22

Date: 28/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer 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	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	—	08/02/2022	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	1.15	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	35.6	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	66.6	62.5	61.9	63.7
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	19.6	19.7	19.9

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

Calibration Done on : 27/12/2021

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

Date: 26/02/2022

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 - 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	—	09/02/2022	09/02/2022	10/02/2022	19/02/2022
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	35.9	38.4	33.8	33.8
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	82.3	58.7	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	14.8	18.8	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	20.6	18.6	18.7

Instrument used : 1) Ecotech RD6, Model No. AAS - 217BL, Gascurve Sampling for AAS 109 & PM 2.5 Sampler AAS 127

Calbrane Done on : 27/12/2021

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Ref. No. 206A02/2021-22

Date: 20/02/2022

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

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 361 140.

District : Jannagar.

Sr. No.	Particulars	Unit	Core Zone = 2. Near Loading area			Average Result of 24 Hrs.
			1 st 9:00 Hrs.	2 nd 9:00 Hrs.	3 rd 6:00 Hrs.	
01.	Date of sampling	—	09/02/2022	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	1.20	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	35.8	32.4	33.3
09.	Permissible Limits of PM 10	µg/m ³	180	180	180	180
10.	Measured Concentration of PM 10	µg/m ³	59.4	62.9	56.7	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	20.4	18.5	18.5

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

Calibrate Done on: 27/12/2021

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Ref. No. :305402/2021-22

Date: 28/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer 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	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	56.4	52.8	44.7	51.3
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	6.8	13.0
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	19.0

Instrument used : 1) Dootech 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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Ref. No. :3055402/2021-22

Date: 20/02/2022

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 - 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/min/uss	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	µgm ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µgm ³	31.5	34.2	26.8	30.6
09.	Permissible Limits of PM 10	µgm ³	100	100	100	100
10.	Measured Concentration of PM 10	µgm ³	50.3	44.9	49.7	48.3
11.	Permissible Limits of SO ₂	µgm ³	80	80	80	80
12.	Measured Concentration of SO ₂	µgm ³	10.1	13.5	12.8	12.1
13.	Permissible Limits of NO ₂	µgm ³	80	80	80	80
14.	Measured Concentration of NO ₂	µgm ³	15.3	19.8	17.2	17.4

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

Calibration Done on: 27/12/2021

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Ref. No. :3056/02/2021-22

Date: 28/02/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachmar and Pachhaldi 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	3 to 14	3 to 14	3 to 14
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	µgm ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µgm ³	34.2	29.4	30.9	31.5
09.	Permissible Limits of PM 10	µgm ³	100	100	100	100
10.	Measured Concentration of PM 10	µgm ³	65.2	55.8	62.9	61.3
11.	Permissible Limits of SO ₂	µgm ³	80	80	80	80
12.	Measured Concentration of SO ₂	µgm ³	18.2	9.4	11.2	12.9
13.	Permissible Limits of NO ₂	µgm ³	80	80	80	80
14.	Measured Concentration of NO ₂	µgm ³	17.5	23.1	21.8	20.7

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

Calibration Done on : 27/12/2021

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Ref. No. 394/C3/2021-22

Date: 31/03/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Buffer Zone Pachhtar and Pachhiardi 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	09/03/2022	06/03/2022	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	m3/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	30.9	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	60.9	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	8.8	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	18.1	19.3

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

Calibration Done on : 27/12/2021

Royal Environment Auditing & Consultancy Service



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Ref. No. : 396/03/2021-22

Date: 31/03/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhar and Pachhardi Mines : MARCH 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	---	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	1.18	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	32.8	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	60.8	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	7.5	14.9	15.2
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	15.2	19.4	17.5	17.4

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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Ref. No.: 396/03/2021-22

Date: 31/03/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachhar and Pachhtandi Mines : MARCH 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	—	08/03/2022	08/03/2022	09/03/2022	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	1.19	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	64.9	60.8	57.6	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	11.6
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	20.8	24.9	19.4	21.7

Instrument used: 1) Ecotech RDB, Model No. AAS - 217 RI, Gasometer Sampling RDL AAS 100 & PM 2.5 Sampler AAS 127

Calibrate Done on: 27/12/2021

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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 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 16	1 to 16	1 to 15
05.	Average flow rate during sampling	m ³ /minutes	1.16	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	56.3
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	11.6	15.4	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	18.5	20.5	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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Ref. No.: A055/03/2021-22

Date: 31/03/2022

REPORT OF AMBIENT AIR QUALITY MONITORING : Core Zone Pachter and Pachhardi 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 16	1 to 16	1 to 16	1 to 16
05.	Average flow rate during sampling	m ³ /minutes	1.12	1.13	1.16	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	33.4	31.6	32.8	32.6
09.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	51.2	48.6	43.7	47.8
11.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
12.	Measured Concentration of SO ₂	µg/m ³	12.2	11.6	10.8	11.8
13.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
14.	Measured Concentration of NO ₂	µg/m ³	16.5	17.4	15.9	16.6

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

Calibrate Done on : 27/12/2021

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Ref. No. - 4056/03/2021-22

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 = 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.	Downwind 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	m ³ /minutes	1.16	1.10	1.17	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	µgm ³	60	60	60	60
08.	Measured Concentration of PM 2.5	µgm ³	32.5	33.6	28.4	31.8
09.	Permissible Limits of PM 10	µgm ³	140	140	100	100
10.	Measured Concentration of PM 10	µgm ³	63.5	59.6	60.7	61.3
11.	Permissible Limits of SO ₂	µgm ³	80	80	80	80
12.	Measured Concentration of SO ₂	µgm ³	14.5	11.5	13.8	13.3
13.	Permissible Limits of NO ₂	µgm ³	80	80	80	80
14.	Measured Concentration of NO ₂	µgm ³	16.2	21.2	20.7	19.4

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL Gaseous Sampling Kit- AAS 105 & PM 2.5 sampler AAS 127

Calibration Done on: 27/12/2021

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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.

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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

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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

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

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)	
		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 : 31/09/2021

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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-008719. (SIGMA)

Calibration done on : 30/09/2021

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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

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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

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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	48.1	35.4
03.	Pachhlar and Pachhtardi Mines Adm. Building	52.6	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, 2000 Schedule See Rule 3(1) and 4(1).

Instruments used : Sound level meter, model : IL-008719. (SIGMA)

Calibration done on : 30/08/2021



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Ref. No. : 298/02/2021-22

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
Pachhar 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	60.3
07.	Hyundai - 140 (LC - 9)	78.5	72.9	65.7

Instruments used : Sound level meter, model : IL-00671A (SIGMA)

Calibration done on : 30/09/2021

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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	53.6	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	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

Analyst



Royal

Environment Auditing & Consultancy Service

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Ref. No : 398/03/2021-22

Date: 31/03/2022

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Shree Digvijay Cement Company Limited

Digvijaygram - 381 140.

District : Jamnagar.

Sampling Date : 08/03/2022

Sr. No.	Location of Sampling	dB(A)		
Permissible Limits for 8:00 Hrs.		80 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 RD 355 Dozer(New)	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-00671B (SIGMA)

Calibration done on : 30/09/2021

Royal Environment Auditing & Consultancy Service



Ashish
Analyst

PACHHTARDI 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	11625
3	Purchasing of Sapling	1600
4	Purchasing of Soil	0
5	Plantation charge	5700
6	Recurring Expenses for Security and Maintenance of Plantation	25646
	Total	122331

