



Ref.: ACIL/DCGU/Environment/EC-Comp/SEIAA/02

Date: 29.11.2023

To  
The Secretary  
State Environment Impact Assessment Authority, Gujarat  
Gujarat Pollution Control Board  
Paryavaran Bhavan, Sector-10A, Gandhinagar  
Gujarat - 382010

**Sub.:** Six monthly compliance status report of Environment Clearances of stand-alone Cement Grinding Unit of Adani Cement Industries Limited at Dahej Industrial Estate Taluka Vagra, District Bharuch (Gujarat)

**Ref:** 1. EC letter No. SEIAA/GUJ/EC/3(b)/633/2019, Dated: 03.05.2019 to ACL – **Enclosure 2**  
2. Transfer of EC to ACIL letter no. SEIAA/GUJ/EC/3(b)/1752/2022 dated 7.7.2022 – **Enclosure 2**  
3. Consent to Operate issued by GPCB dated 22.06.2023 – **Attachment 5**

Dear Sir,

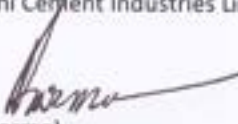
With reference to above subject, please find enclosed herewith six monthly Environment Clearance (EC) compliance status of Stand-Alone Cement Grinding Unit of Adani Cement Limited in Dahej Industrial Estate Taluka Vagra, District Bharuch (Gujarat) for the period of April 2023 to September 2023.

Above mentioned plant is in operation and started production dated 01<sup>st</sup> July 2023.

This for your kind information and record, Please

Thanking You  
Yours faithfully

For Adani Cement Industries Limited

  
(Ajay Sharma)  
Plant Head  
Encl.: As above  
CC to:

**Member Secretary**  
Gujarat Pollution Control Board  
Paryavaran Bhavan, Sector-10A, Gandhinagar  
Gujarat – 382010

**The Regional Office**  
Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change,  
Integrated Regional Office, Gandhi Nagar A wing- 407 & 409  
Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar-382010

**The Regional Officer**  
Gujarat Pollution Control Board  
C-1/119/3, GIDC ESTATE, PHASE - II, NARMADANAGAR,  
BHARUCH – 392015, Gujarat

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**SIX MONTHLY COMPLIANCE REPORT OF  
ENVIRONMENTAL CLEARANCE  
STAND-ALONE CEMENT GRINDING PLANT**

At  
VILLAGE DAHEJ (DAHEJ INDUSTRIAL ESTATE),  
TALUKA VAGRA, DISTRICT BHARUCH, GUJARAT

**Submitted to:**

**State Environmental Impact Assessment Authority, Gujarat.  
RO - Ministry of Environment, Forests & Climate Change, Bhopal.  
Gujarat Pollution Control Board, Gandhinagar (Gujarat);  
RO - Gujarat Pollution Control Board, Bharuch (Gujarat)**



**Submitted By:**

**Adani Cement Industries Limited**

**Ahmedabad, Gujarat**

**PERIOD: April' 2023–September' 2023**

## CONTENTS

<b>Sr. No.</b>	<b>Title</b>	<b>Encloser/ Attachment</b>
1	Compliance status of Environmental Clearance	Enclosure – 1
2	Copy of Environment Clearance	Enclosure – 2
3	Year wise budget allocation for activities under CER	Attachment – 1
4	Compliance to the applicable standard conditions of OM dated 09.08.2018	Attachment – 2
5	Point wise response to the issues raised during public hearing	Attachment – 3
6	Copy of advertisement	Attachment – 4
7	Copy of Consent to Establish & CCA	Attachment – 5
8	Environmental Monitoring Report	Attachment – 6
9	CREP Implementation	Attachment – 7
10	Intimation to Authorities	Attachment – 8
11	Responsibility Matrix for EMP implementation	Attachment - 9
12	List of Bag filter	Attachment - 10
13	Screenshot of online data transmission system	Attachment - 11
14	Environment Policy	Attachment - 12
15	Photograph of STP	Attachment - 13
16	Photograph of Rainwater Harvesting Pit	Attachment - 14

ENCLOSURE 1

**COMPLIANCE TO THE CONDITIONS STIPULATED IN ENVIRONMENTAL CLEARANCE [Vide letter No. SEIAA/GUJ/EC/3(b)/633/2019, Dated: 3rd May, 2019] FOR STAND ALONE CEMENT GRINDING UNIT OF ADANI CEMENTATION LIMITED (ACL) and EC transferred to Adani Cement Industries Limited (ACIL) [vide letter no. SEIAA/GUJ/EC/3(b)/1752/2022 dated 07.07.2022] AT DAHEJ INDUSTRIAL ESTATE, TALUKA VAGRA, DISTRICT BHARUCH (GUJARAT) BY STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY (SEIAA) – GUJARAT**

A	Specific Condition	Compliance
1	Project proponent shall procure raw materials like clinker for the proposed project from the authorized units having Environmental Clearance as per the EIA Notification 2006, CTE & CC&A	<ul style="list-style-type: none"> <li>• Noted and Compliance Assured</li> <li>• Clinker for grinding unit is being procured from Rabariyawas</li> </ul>
2	Complete Zero Liquid Discharge (ZLD) status shall be maintained all the time and there shall be no drainage connection from the premises	Dahej Cement Grinding Unit is dry process Zero Liquid discharge (ZLD) plant. Water is required during the manufacturing of cement only for cooling of plant machinery and green belt development. Hence the water is completely consumed during the process. As a result no effluent is generated. In view of this, effluent treatment plant is not required and hence installation of effluent monitoring system is not applicable to the unit.
3	The project proponent shall allocate the separate fund of Rs. 6.65 Crores i.e. 1.2 % of the capital investment for activities mentioned in EIA report under Corporate Environment Responsibility (CER) In accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent	The provisions contained in the Ministry's OM, vide F.No.25-65/2017-IA.III dated 01.05.2018 are being complied. The detail of the CER activities along expenditure incurred out during the period is given as <b>Attachment 01</b>
4	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA .III dated 09/08/2018 for Stand-alone Cement grinding units without Captive Power Plant as mentioned at Sr. no. xii	<ul style="list-style-type: none"> <li>• Noted and complied</li> <li>• Compliance to the conditions of applicable standard OM prescribed by MOEFCC is enclosed as <b>Attachment-2</b></li> </ul>

5	<p>The Project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and connected to SPCB and CPCB Online and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.</p>	<p>Noted and Complied. Continuous monitoring system has been installed for monitoring of PM concentrations and the online data are available on GPCB website. All equipment are installed with pollution control devices to maintain the dust emission well within the limits at bag filter.</p>
6	<p>The Project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.</p>	<p>Noted and complied. The guidelines of GPCB are being adhered.</p>
7	<p>The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with</p>	<p>CAAQMS has been installed data being monitored in CCR and local station. Also regular monitoring by independent laboratory recognized by NABL is being carried out and submitted to GPCB and MoEFCC. Ambient air quality monitoring report is attached as <b>Attachment 06</b></p>
8	<p>The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986</p>	<p>Noted and complied. Adequate air pollution control system has been provided to control fugitive dust emission at various location i.e. transfer points, raw material handling, bagging, and packing areas. Etc. All conveyors are covered with GI sheets. Finished products are dispatched by covered wagon or truck to prohibit fugitive emission. List of bag filters are given in <b>Attachment 10</b></p>
9	<p>Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report</p>	<p>Noted and Complied Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company is in place. Year wise fund allocation under CER is given as <b>Attachment 01</b></p>

10	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986	Noted and Complied. The fugitive emission standards are being followed and parameters are maintained within the range. The monitoring data of fugitive emission is attached as <b>Attachment 06</b>
11	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards	Noted and Complied Adequate air pollution control system has been provided to control fugitive dust emission at various location i.e. transfer points, raw material handling, bagging, and packing areas. Etc. All conveyors are covered with GI sheets. Finished products are dispatched by covered wagon or truck to prohibit fugitive emission. List of bag filters are given in <b>Attachment 10</b>
12	PP shall ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash	Noted and Complied All raw materials are transported by covered vehicle to prevent spillage and dust generation during transportation. The fly ash is transported in enclosed bulkers.
13	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	CREP is being implemented. Compliance to the Corporate Responsibility for Environmental Protection (CREP) is enclosed as <b>Attachment 01</b>
14	All the issues raised in the public hearing shall be comprehensively addressed/complied with in a time bound manner	Noted and Compliance assured. Commitments made in the EIA/EMP report are being followed. The detail of EIA/EMP expenditure are attached as <b>Attachment 03</b>
15	The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority	Noted and Compliance assured. The guidelines of GPCB are being adhered.
16	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E;) dated 16th November, 2009 shall be complied with	CAAQMS has been installed data being monitored in CCR and local station. Also regular monitoring by independent

		laboratory recognized by NABL is being carried out and submitted to GPCB and MoEFCC. Ambient air quality monitoring report is attached as <b>Attachment 06</b>						
<b>A2</b>	<b>Water</b>							
17	Total water requirement for the project shall not exceed 480 KI/day: Unit shall reuse 180 KI/Day of treated sewage and trade effluent for dust suppression and gardening & plantation within premise and hence, fresh water requirement shall not exceed 300 KL/Day and it shall be met through ground water. Necessary permission from concern authority in this regards shall be obtained.							Noted and complied.
18	The industrial effluent generation from the project shall not exceed 171 KL/day							Noted and complied
19	Total industrial effluent 171 KL/Day of cooling reject shall be used for dust suppression and no effluent shall be discharged outside premises by any means							Noted and complied
20	Domestic wastewater generation shall be 9 KL/Day and it shall be treated through adequate capacity STP and treated sewage shall be reused for gardening/plantation within premises							Noted and complied One STP's with capacity of 10 KLD has been installed at plant. The treated domestic waste water is used for green belt development and water spraying on road for dust suppression. Photographs of STPs are enclosed as <b>Attachment 13</b>
21	During monsoon season when treated sewage effluent-may not be required for the plantation/Gardening/Green Belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.							Noted and complied
22	Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days							Noted and complied
23	The company shall harvest rainwater from the rooftop of the building to recharge the ground water and to use the same water for the various activities-of the project to conserve fresh water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter							RWHS has been installed at plant to rooftop rainwater. Photographs are enclosed as <b>Attachment 14</b>
<b>A3</b>	<b>Air</b>							
24	Unit shall not exceed fuel consumption for stand by DG set as mentioned below:							Noted and complied
Sr. No.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Qty. of Fuel MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measure (APCM)		
1	DG Set (500	18	Diesel	25	PM, SO2, NOX	Adequate stack		

	KVA)		Ltr/hour		height
25	Unit shall provide adequate APCM with flue gas generation sources as mentioned above.			Noted and complied.  All equipment are installed with pollution control devices to maintain the emission well within the limits at bag filter.	
26	Unit shall provide adequate APCM with process gas generation sources as mentioned below.			Noted and compliance assured.	
S.N.	Source of emission		Type of emission	Stack / Vent Height (meter)	Air Pollution Control Measures (APCM)
i.	Gypsum crusher (Total 1 nos)		PM	18	Bag filter
ii.	Cement mill (Total 2 nos)		PM	70	Bag filter
iii.	Packing plant (Total 3 nos)		PM	50	Bag filter
iv.	All conveyor belts and transfer points		PM	30	Bag filter
v.	All raw materials and finished product silos		PM	30	Bag filter
27	The above-mentioned measures are indicative and the unit may explore the possibilities of other latest devices also to achieve the better results & better compliance of the air pollution control norms prescribed by the Gujarat Pollution Control Board (GPCB)			<ul style="list-style-type: none"> <li>• Noted and compliance assured.</li> <li>• ACIL will explore the possibility of better result while implementing APCM</li> </ul>	
28	The Reverse Pulse Jet Type Bag Filters shall be provided with proper metallic casing, adequate stack height and stack monitoring requirement facility.			Noted and compliance assured.	
29	The design the air pollution control equipment's (APCE) shall be validated by the reputed institutes and APCEs shall be fabricated, erected and commissioned under guidance and supervision of the said institute			Noted and compliance assured.	
30	The APCM shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlet			Noted and compliance assured.	
31	Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards			Noted and compliance assured.	
32	Stack/Vents of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission			Noted and compliance assured.	
33	Interlocking facility of the pollution control equipment and the equipment(s) to which it is attached should be provided in such a manner that in the event of pollution control equipment(s) not working, the respective unit(s) is shut down automatically.			Noted and compliance assured.	
34	Regular periodic preventive maintenance of the air pollution control systems shall be carried out during			Noted and compliance assured.	



	the operation phase.		
35	The applicant shall carry out yearly performance evaluation of the air pollution control equipment's through any reputed institute and furnish the reports in this regard to the Gujarat Pollution Control Board every year	Noted and compliance assured that the ACIL will engage reputed institute for yearly performance evaluation of Air Pollution Control Equipment	
36	The fugitive emission in the work zone environment and ambient air quality shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities including Director of Industrial Health and Safety as well as Gujarat Pollution Control Board from time to time. Following indicative guidelines shall be followed to reduce the fugitive emission.	Noted and compliance assured.	
a)	Enclosure shall be provided at all loading and unloading operations.	Noted and compliance assured.	
b)	Water shall be sprayed on all raw materials stock pile periodically to retain some moisture in top layer except wet gypsum to reduce the fugitive emission.	Noted and compliance assured.	
c)	All transfer points shall be fully enclosed	Noted and compliance assured.	
d)	Accumulated dust on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping	Noted and compliance assured.	
e)	Internal roads shall be either asphalted or paved properly to reduce the fugitive emission during vehicular movement	Noted and compliance assured.	
f)	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various material handling areas (i.e. Raw material loading, unloading, conveying, transporting, stacking, bagging and packing etc.) Guidelines/Code of Practice issued by the CPCB for prevention and control of the fugitive emission shall be followed.	Noted and compliance assured to install dust collection and extraction system at each dust emitting sources during both construction and operation stage.	
37	Regular monitoring of ground level concentration of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> & NO <sub>x</sub> shall be carried out in the impact zone and its records shall be maintained. Ambient Air Quality levels shall not be exceeding the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequently of monitoring shall be decided in consultation with the GPCB.	Noted and compliance assured make provision for regular monitoring of AAQ in impact zone and results are being reported to GPCB periodically.  Plant is under operation since June 2024 Quarterly Ambient Air Quality monitoring report for April 2023 to September 2023 is enclosed <b>(Attachment - 6)</b>	
<b>A4</b>	<b>SOLID/HAZARDOUS WASTE</b>		
38	All the hazardous waste management shall be taken care as mentioned below;	Noted and compliance assured	
<b>S. N.</b>	<b>Type of Source</b>	<b>Category as per Quantity</b>	<b>Management of HW</b>

	Waste		Haz. Waste Rules, 2016	MT/Annum	
<b>A. Hazardous</b>					
i.	Used Oil	Utilities & Operation	5.1	0.1 MT/Annum	Grease: Reused internally for lubrication of scraper chains Oil Disease through approved recycler
ii.	Cotton Rags	Maintenance Work Shop	33.2	600 kg/Annum	Dispose through CHWIF
iii.	Discarded containers	Paints & Oil Drums	33.1	2000 Nos./Annum	Dispose through approved Recycler
<b>B. Non Hazardous</b>					
i.	Dust from APCM	Manufacturing Process	Solid Waste	0.15 Million MT/Annum	100% Recycled in process
ii.	Sludge generation from STP	STP	Solid Waste	0.365 Million MT/Annum	Manure for green belt development
iii.	Gypsum	Receipt Storage & Consumption	Solid Waste	0.1MMTA	Collection, transportation, storage, receipt and consumption for Manufacturing
iv.	Fly ash	Receipt Storage & Consumption	Solid Waste	0.6MMTA	Collection, transportation, storage, receipt and consumption for Manufacturing
<b>A5 SAFETY</b>					
39	Proper ventilation shall be provided in the work area				Noted and compliance assured
40	Personal Protective Equipment's shall be provided to workers and its usage shall be ensured and supervised				Noted and compliance assured
41	First Aid Box shall be made readily available in adequate quantity in the unit				Noted and compliance assured
42	Regular periodic work zone ambient air monitoring shall be carried out for measuring concentrations of cement dust, silica dust etc. through qualified industrial hygienist and its records shall be maintained.				Noted and compliance assured
43	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per Factories Act & Rules				Noted and compliance assured
44	All necessary safety measures shall be taken to avoid any kind of accident.				Noted and compliance assured
45	Training shall be imparted to all the workers on safety and health aspects.				Noted and compliance assured
<b>A6 NOISE</b>					
46	The overall noise level in and around the plant area shall				Noted and compliance

	be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules	assured
<b>A7 CLEANER PRODUCTION AND WASTE MINIMISATION</b>		
47	The unit shall undertake the Cleaner Production Assessment study through a reputed institute/organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB	Noted and compliance assured
48	Efforts shall be made to use more fly ash in cement manufacturing without compromising the quality of the cement.	Noted and compliance assured
<b>A8 GREEN BELT AND OTHER PLANTATION</b>		
49	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Noted and compliance assured
50	The unit shall develop green belt within the factory premises as per the CPCB guidelines, consisting of at least three rows of trees of local species on periphery. However, if the adequate land is not available within the premises the unit shall take up adequate plantation at suitable open land on road sides and other open areas in nearby locality or schools in consultation with the Gram Panchayat / GPCB and submit an action plan of plantation for next three years to the GPCB.	Noted and compliance assured
<b>B OTHER CONDITIONS</b>		
51	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum {OM} published by MoEF&CC vide no. F. No.22-34/2018-IA.III dated 09/08/2018	<ul style="list-style-type: none"> <li>• Noted.</li> <li>• Compliance to the applicable standard conditions are enclosed as <b>Attachment-2</b></li> </ul>
52	In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	Noted and compliance assured
53	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEF&CC's Office Memorandum No. F.No.22-65/2017-IA.III date Qf/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored	Budget allocated for Corporate Environmental Responsibility (CER) in EIA report to be used in line with suggested activities simultaneously with construction activities. Detailed year wise action plan for

	and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.	implementation of CER is enclosed as <b>Attachment-1</b>
54	In the event of failure of any pollution control system adopted by the unit, the unit shall be safety closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	Noted and compliance assured
55	All the recommendations / commitments made in the EIA/EMP report of the project shall be implemented.	Noted and compliance assured
56	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	Noted and compliance assured
57	During material transfer, spillages shall be avoided and gulland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	Noted and compliance assured
58	Pukka flooring impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Noted and compliance assured
59	The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported	Noted Provision of separate fund for Environmental Protection has been made and allocated under budgetary provision.
60	Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly	Noted and compliance assured
61	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority	Noted
62	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes {Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules	Noted
63	The granting of Environment Clearance to the project by the SEIAA does not restrain or dilute any legal action to be initiated against the project proponent by any authority including the GPCB, for commencing the construction work and production without obtaining prior Environment Clearance.	Noted
64	The project proponent shall comply all the	Noted and compliance assured

	conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	
65	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	Noted and compliance assured
66	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Budget estimated for Environmental Pollution Control Measures (EPCM) including CER & CSR in EIA report to be used for implementation of stipulated conditions simultaneously with construction activities
67	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	<ul style="list-style-type: none"> <li>• Complied</li> <li>• information to the public regarding EC issued by the SEIAA for this project is published on 14<sup>th</sup> May 2019 both in "INDIAN EXPRESS" (English) and "GUJARAT SAMACHAR" (Gujarati)</li> <li>• Copy of advertisement is enclosed as <b>Attachment-4</b></li> </ul>
68	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIM or any other competent authority for the purpose of the environmental protection and management.	Noted
69	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	Noted and Complied (This compliance report is from Oct-2022 to March-2023 being submitted by ACIL for Dahej Cement Grinding Unit
70	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 attract action under the provision of Environment (Protection) Act, 1986	Noted
71	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Noted
72	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted

73	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	Noted
74	The project authorities shall inform the GPCB, Regional Office of MOEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Financial closure of project is awaited. It will be informed to RO-GPCB, Bharuch and SEIAA once approval is in place. CTE and CTE transfer in the name of ACIL for the project has been obtained. <b>(Attachment - 5)</b> Construction of the project started in October' 2021.
75	This environmental clearance is valid for seven years from the date of issue	Noted
76	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
77	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.	Noted

**Verbatims as mentioned in Transfer of Environmental Clearance in the name of Adani cement Industries Limited vide letter no. SEIAA/GUJ/EC/3(b)/1752/2022 dated 07.07.2022:**

- *The name of the unit read as "Adani cement Industries Limited" in place of "Adani Cementation Limited" in a. Page1. – sub – Line 1, b. page1. – para 2 – Line 1, c. page5. – issued to – Line 1 of Environmental Clearance order no. SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019.*
- *Rest of all the conditions of the Environment Clearance orders no. SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019 shall remain unchanged.*

**Compliance**

- Noted and Compliance assured

S. M. SAIYAD, IFS  
MEMBER SECRETARY  
SEIAA (GUJARAT)



STATE LEVEL ENVIRONMENT  
IMPACT ASSESSMENT  
AUTHORITY  
GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/3(b)/ 6 3 3 /2019

Date: 3 MAY 2019

By R P A D

Sub: Environment Clearance to M/s. Adani Cementation Limited for setting up of stand-alone Cement grinding unit at Survey 136/P, 137/P, 138/P, 139/P, 140/P, 141/P, 144/P, 145/P, 151/P, 152/P, 153/P, 154/P, 155/P, 162/P, 174/P, 175/P, 176/P, 178/P, 179/P, 187/P, 188/P, 189/P, 190/P, 191/P, of village: Dahej and Survey no. 125/p, 124/p of village: Lakhigam, Dahej Industrial Estate, Ta- Vagra, Dist - Bharuch. In Category 3(b) of Schedule annexed with EIA Notification dated 14/09/2006. Time Limit

Ref: Your Proposal No. SIA/GJ/IND/30696/2017.

Dear Sir,

This has reference to your application along with EIA report dated 04/02/2019 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance to M/s. Adani Cementation Limited for setting up of stand-alone Cement grinding unit at Survey 136/P, 137/P, 138/P, 139/P, 140/P, 141/P, 144/P, 145/P, 151/P, 152/P, 153/P, 154/P, 155/P, 162/P, 174/P, 175/P, 176/P, 178/P, 179/P, 187/P, 188/P, 189/P, 190/P, 191/P, of village: Dahej and Survey no. 125/p, 124/p of village: Lakhigam, Dahej Industrial Estate, Ta- Vagra, Dist - Bharuch. It is a proposed unit for manufacturing following products, which falls in the category - 3(b) of the schedule of the EIA Notification-2006:

Sr. No.	Name of the Products	CAS no. /CI no.	Quantity, MT/Month	End-use of products
1	Portland Pozzolana Cement (PPC)	65997-15-1	2 Million MTPA (In two phases each with 1 MMTPA Capacity)	Cement will be used as Raw material for infrastructure construction
2	Ordinary Portland Cement(OPC)	65997-15-1		
3	Portland slag Cement (PSC)	65997-15-1		
4	Portland Composite Cement (PCC)	65997-15-1		
	Total		2, Million MTPA	

The project activity is covered in 3(b) and is of 'B' Category. Public hearing was conducted on 07/12/2018.

The SEAC, Gujarat vide their letter dated 20/03/2019 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on 26/02/2019. The proposal was considered by SEIAA, Gujarat in its meeting held on 25/03/2019 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September, 2006 subject to the compliance of the following conditions.

**A. CONDITIONS :**

**A. 1 SPECIFIC CONDITION :**

1. Project proponent shall procure raw materials like clinker for the proposed project from the authorized units having Environmental Clearance as per the EIA Notification 2006, CTE & CC&A.
2. Complete Zero Liquid Discharge [ZLD] status shall be maintained all the time and there shall be no drainage connection from the premises.
3. The project proponent shall allocate the separate fund of Rs. 6.65 Crores i.e. 1.2 % of the capital investment for activities mentioned in EIA report under Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.
4. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Stand-alone Cement grinding units without Captive Power Plant as mentioned at Sr. no. xii.

5. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25<sup>th</sup> August, 2014 (Cement) and subsequent amendment dated 9<sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

6. The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.

7. The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.
8. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
9. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
10. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
11. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
12. PP shall ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
13. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
14. All the issues raised in the public hearing shall be comprehensively addressed / complied with in a time bound manner.
15. The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.
16. The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.

#### A. 2 WATER :

17. Total water requirement for the project shall not exceed 480 KL/Day. Unit shall reuse 180 KL/Day of treated sewage and trade effluent for dust suppression and gardening & plantation within premises and hence, fresh water requirement shall not exceed 300 KL/Day and it shall be met through ground water. Necessary permission from concern Authority in this regards shall be obtained.
18. The industrial effluent generation from the project shall not exceed 171 KL/day.
19. Total industrial effluent 171 KL/Day of cooling reject shall be used for dust suppression and no effluent shall be discharged outside premises by any means.
20. Domestic wastewater generation shall be 9 KL/Day and it shall be treated through adequate capacity STP and treated sewage shall be reused for gardening/plantation within premises.
21. During monsoon season when treated sewage effluent may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.
22. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
23. The company shall harvest rainwater from the rooftop of the building to recharge the ground water and to use the same water for the various activities of the project to conserve fresh water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.

#### A. 3 AIR:

24. Unit shall not exceed fuel consumption for stand-by DG set as mentioned below:

Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
1	DG Set (500KVA)	18	Diesel	25 litre/hr.	PM, SO <sub>2</sub> , NO <sub>x</sub>	Adequate stack height

25. Unit shall provide adequate APCM with flue gas generation sources as mentioned above:
26. Unit shall provide adequate APCM with process gas generation sources as mentioned below:

S.N.	Source of emission	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)
1	Gypsum crusher (Total 1 nos)	PM	18	Bag filter
2	Cement mill (Total 2 nos)	PM	70	Bag filter
3	Packing plant (Total 3 nos)	PM	50	Bag filter
4	All conveyor belts and transfer points	PM	30	Bag filter
5	All raw materials and finished product silos	PM	30	Bag filter

27. The above-mentioned measures are indicative and the unit may explore the possibilities of other latest devices also to achieve the better results & better compliance of the air pollution control norms prescribed by the Gujarat Pollution Control Board (GPCB).
28. The Reverse Pulse Jet Type Bag Filters shall be provided with proper metallic casing, adequate stack height and stack monitoring requirement facility.
29. The design the air pollution control equipments (APCE) shall be validated by the reputed institutes and APCEs shall be



fabricated, erected and commissioned under guidance and supervision of the said institute.

30. The APCM shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlet.
31. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.
32. Stack/Vents of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.
33. Interlocking facility of the pollution control equipment and the equipment(s) to which it is attached should be provided in such a manner that in the event of pollution control equipment(s) not working, the respective unit(s) is shut down automatically.
34. Regular periodic preventive maintenance of the air pollution control systems shall be carried out during the operation phase.
35. The applicant shall carry out yearly performance evaluation of the air pollution control equipments through any reputed institute and furnish the reports in this regard to the Gujarat Pollution Control Board every year.
36. The fugitive emission in the work zone environment and ambient air quality shall be monitored. The emission shall confirm to the standards prescribed by the concerned authorities including Director of Industrial Health and Safety as well as Gujarat Pollution Control Board from time to time. Following indicative guidelines shall be followed to reduce the fugitive emission.
  - a) Enclosure shall be provided at all loading and unloading operations.
  - b) Water shall be sprayed on all raw materials stock pile periodically to retain some moisture in top layer except wet gypsum to reduce the fugitive emission.
  - c) All transfer points shall be fully enclosed.
  - d) Accumulated dust on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping.
  - e) Internal roads shall be either asphalted or paved properly to reduce the fugitive emission during vehicular movement.
  - f) The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various material handling areas. (eg. raw material loading, unloading, conveying, transporting, stacking, bagging and packing etc.) Guidelines / Code of Practice issued by the CPCB for prevention and control of the fugitive emission shall be followed.

Regular monitoring of ground level concentration of PM10, PM2.5, SO2 & NOx shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.



**Gujarat SOLID / HAZARDOUS WASTE:**

38. All the hazardous waste management shall be taken care as mentioned below:

S.N.	Type of Waste	Source	Category as per Haz. Waste Rules, 2016	Quantity, MT/ Annum	Management of HW
<b>A. Hazardous</b>					
1	Used Oil	Utilities & Operation	5.1	0.1 MT/Annum	Grease: Reused internally for lubrication of scraper chains Oil: Dispose through approved recycler
2	Cotton Rags	Maintenance work shop	33.2	600 kg/Annum	Dispose through CHWIF
3	Discarded containers	Paints and oil drums	33.1	2000 Nos./Annum	Dispose through approved Recycler
<b>B. Non Hazardous</b>					
4	Dust from APCM	Manufacturing process	Solid Waste	0.15 Million MT/Annum	100% Recycled in process
5	Sludge generation from STP	STP	Solid Waste	0.365 MT/Annum	Manure for green belt development
6	Gypsum	Receipt, Storage & Consumption	Solid Waste	0.1MMTA	Collection, transportation, storage, receipt and consumption for cement manufacturing
7	Fly ash	Receipt, Storage & Consumption	Solid Waste	0.6MMTA	Collection, transportation, storage, receipt and consumption for cement manufacturing

**A. 5 SAFETY:**

39. Proper ventilation shall be provided in the work area.
40. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
41. First Aid Box shall be made readily available in adequate quantity in the unit.
42. Regular periodic work zone ambient air monitoring shall be carried out for measuring concentrations of cement dust,

silica dust etc. through qualified industrial hygienist and its records shall be maintained.

43. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per Factories Act & Rules.
44. All necessary safety measures shall be taken to avoid any kind of accident.
45. Training shall be imparted to all the workers on safety and health aspects.

**A. 6 NOISE:**

46. The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules.

**A. 7 CLEANER PRODUCTION AND WASTE MINIMISATION:**

47. The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.
48. Efforts shall be made to use more fly ash in cement manufacturing without compromising the quality of the cement.

**A. 8 GREEN BELT AND OTHER PLANTATION:**

49. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
50. The unit shall develop green belt within the factory premises as per the CPCB guidelines, consisting of at least three rows of trees of local species on periphery. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation at suitable open land on road sides and other open areas in nearby locality or schools in consultation with the Gram Panchayat / GPCB and submit an action plan of plantation for next three years to the GPCB.


**B. OTHER CONDITIONS:**

51. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018.
52. In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.
53. The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.
54. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
55. All the recommendations / commitments made in the EIA/EMP report of the project shall be implemented.
56. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
57. During material transfer, spillages shall be avoided and gulland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
58. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
59. The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported.
60. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
61. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
62. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
63. The granting of Environment Clearance to the project by the SEIAA does not restrain or dilute any legal action to be initiated against the project proponent by any authority including the GPCB, for commencing the construction work and production without obtaining prior Environment Clearance.
64. The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.

65. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.
66. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
67. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
68. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
69. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
70. 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 attract action under the provisions of Environment (Protection) Act, 1986.
71. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
72. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
73. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
74. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
75. This environmental clearance is valid for seven years from the date of issue.
76. 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.
77. Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.

With regards,  
Yours sincerely,

  
**S. M. SAIYAD**  
Member Secretary

  
Issued to:  
**M/s. Adani Cementation Limited**  
**Mr. Sanjay Prasad (DGM),**  
**CI-28, Ground Floor, South Block, Adani Corporate House,**  
**Shantigram, S G Highway, Ahmedabad- 382421**



No. SEIAA/GUJ/EC/3(b)/1752/2022

Date: 07 JUL 2022 BY R.P.A.D.

Transfer of Environment Clearance Order No:- SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019.

(Under the provision of Environmental Impact Assessment (EIA) Notification, 2006)

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to M/s. Adani Cementation Limited at Survey No. 136/P, 137/P, 138/P, 139/P, 140/P, 141/P, 144/P, 145/P, 151/P, 152/P, 153/P, 154/P, 155/P, 162/P, 174/P, 175/P, 176/P, 178/P, 179/P, 187/P, 188/P, 189/P, 190/P, 191/P of Village Dahej and Survey No. 125/P, 124/P of Village Lakhigam in Dahej Industrial Estate, Tal. Vagra, Dist. Bharuch vide this office letter no. SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019, is being subjected to EC transfer for the following change in the project.

And whereas SEIAA has granted Environment Clearance vide office order letter no. SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for Name change and EC transfer in the environmental clearance vide their online application vide No. SIA/GJ/IND2/216009/2021.

The SEAC, Gujarat had recommended the project vide their letter dated 21/05/2022 to grant transfer in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 24/03/2022. The proposal was considered by SEIAA, Gujarat in its meeting held on 01/07/2022 at Gandhinagar. After careful consideration, Environment Clearance order No. SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019 is hereby transferred to M/s. Adani Cement Industries Limited from M/s. Adani Cementation Limited.

The name of the unit read as "Adani Cement Industries Limited" in place of "Adani Cementation Limited" in a. Page 1. - Sub. - Line 1, b. Page 1. - Para 2 - Line 1, c. Page 5. - Issued to - Line 1 of Environment Clearance order No. SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019.

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019 shall remain unchanged

  
(PRAKASH K. MAJMUDAR)  
Member Secretary



Issued to:  
Adani Cement Industries Limited  
Adani Corporate House,  
Shantigram, Near Vaishno Devi Circle,  
S.G. Highway, Khodiyar,  
Ahmedabad -382421

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Additional Chief Secretary, Forests & Environment Department, Govt. of Gujarat, Block 14, 8<sup>th</sup> floor, Sachivalaya, Gandhinagar-382010.
3. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032

4. The Additional Principal Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
6. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
7. Select File.





## Under CER activity 2023-2024

### Background

Adani Cement Industries Ltd. proposed to install a 1.0 Mtpa cement grinding unit at Dahej.

### Proposal

#### A-Infrastructure development for Water: Amount (0.35 Cr.)

- 1- Water conservation campaign through workshop program.
- 2- Rainwater harvesting either by percolation wells or tanks
- 3- Drinking water supply,
- 4- Sanitation,
- 5- Health,
- 6- Education
- 7- Skill development,
- 8- Roads,
- 9- Cross drains,

#### B-Contribution to various Govt. Schemes: (0.23 Cr.)

- 1- Solar lighting in near-by locality.
- 2-Taking up the cleanliness drive for nearby Areas.
- 3-Installation of Green energy charging station.
- 4-Solid waste management facilities,

#### C-Plantation in Communities Areas: (0.35 Cr.)

#### Scientific Support and Awareness to local Farmers: (0.17Cr.)

- 1- Awareness in near-by villages farmers to increase yield of crop.
- 2-Third party audit of CER activities.

#### D-Contingency Budget: (0.06 Cr.)

Total amount (A+B+C+D) required 2022-23 =  $(0.35+0.23+0.35+0.17+0.06= 1.16$  Cr)

### Functions for CER implementation:

- i. Monitor the overall implementation of the CER activities and the disbursement of the funds.
- ii. Examine the annual targets, activities of proposed CER allocated.
- iii. Review the progress of the targets and activities of proposed CER allocated.
- iv. Prepare the half yearly report for the compliance providing evaluation and documentation of progress made, targets achieved, and performance of the activities carried out.
- v. Ensure that the funds are used only for the prescribed for CER activities.
- vi. ACIL shall release funds annually as per the allocated budget for various CER activities.
- vii. A 3<sup>rd</sup> party annual audit of the CER activities shall be carried out.

### CER activities along with expenditure

As part of CER activity, we have 500 nos trees plantation done under CER service at Jotam farm in Mahesan.

Cost of RS 500000/- (invoice, certificate and plantation site photos attached herewith).





**Stand Alone Dahej Grinding Unit**

**Compliance to the Standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Stand-alone Cement grinding units without Captive Power Plant as mentioned at Sr. no. xii**

<b>Standard EC Conditions for Cement Grinding Units without Captive Power Plants:</b>		
<b>I.</b>	<b>Statutory compliance</b>	
i.	The project proponent shall obtain forest clearance under provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest propose involved in the project.	<b>Not Applicable</b> No forest land involved in project area
ii.	The project proponent shall obtain clearance from the National Board for Wildlife. If applicable.	<b>Not Applicable</b> (There is no Wildlife Sanctuary, National Park in proposed project area.)
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented tin consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study urea).	<b>Not Applicable</b>
iv.	The project proponent shall obtain Consent to Establish Operator under the provisions of Air (Prevention Control of Pollution) Act, 1981 and the Water (Persion & Control of Pollution) Act 1974 from the concerned Suite pollution Control Board Committee.	CTE has been obtained and transferred in the name of Adani Cement Industries Limited (ACIL). CTO is also obtained in the name of Adani Cement Industries Limited (ACIL) <b>Attachment - 5</b>
v.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act 1974 from the concerned Suite pollution Control Board Committee.	CTE has been obtained and transferred in the name of Adani Cement Industries Limited (ACIL). CTO is also obtained in the name of Adani Cement Industries Limited (ACIL) <b>Attachment - 5</b>

**ADANI CEMENT INDUSTRIES LIMITED**

vi.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Noted and Compliance assured
<b>II.</b>	<b>Air quality monitoring and preservation</b>	
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide GS.R. No. 612 (E) dated 25 <sup>th</sup> August 2014 (Cement) and subsequent amendment dated 9 <sup>th</sup> May, 2016 (Cement) and concerned to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Noted and Complied. Continuous monitoring system has been installed for monitoring of PM concentrations and the online data are available on GPCB website. All equipment are installed with pollution control devices to maintain the dust emission well within the limits at bag filter. Screenshot of online monitoring data is enclosed as <b>Attachment 11</b>
	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.	Noted and complied. The fugitive emission standards are being followed and parameters are maintained within the range. The monitoring data of fugitive emission is enclosed as <b>Annexure- 6</b>
		CAAQMS has been installed and real time data is being generated. Also regular monitoring by independent laboratory recognized by NABL is being carried out and submitted to GPCB and MoEFCC. Ambient air quality monitoring report is enclosed as <b>Attachment - 06</b>
	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stock monitoring and manual monitoring of air quality fugitive emissions to regional office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Monthly Summary report of emission and AAQ data is being monitored and submitted to GPCB and MoEFCC. <b>Attachment 06</b>
	Appropriate Air Pollution Control (APC) system shall be provided or all the dust generating points including fugitive dust from all vulnerable sources, so as to	Noted and Complied Adequate air pollution control system has been provided to control fugitive dust emission at various location i.e.

**ADANI CEMENT INDUSTRIES LIMITED**

	comply prescribed stack emission and fugitive emission standards.	transfer points, raw material handling, bagging, and packing areas. Etc. All conveyors are covered with GI sheets. Finished products are dispatched by covered wagon or truck to prohibit fugitive emission. List of bag filters are given in <b>Attachment 10</b>
	The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.	Noted and Complied Leakage bag detector has been installed at VRM bag house. Mechanised bag cleaning devices have been installed for all bag filters for efficient operations.
	Pollution control system in the cement plant shall be provided as per the CREP guidelines of CPCB.	Compliance to the Corporate Responsibility for Environment Protection (CREP) is enclosed as <b>Attachment 02</b>
	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads shop floors, roof regularly.	Regular water sprinkling on the roads and truck parking area is done being through water tanker. Road sweeping machines are being engaged on regular basis for sweeping of all internal roads as part of good housekeeping measure. Further a new truck mounted made road sweeping machine for doing housekeeping work under procured.
	Ensure covered transportation and conveying of raw material to prevent species and dust generation; Use closed bulkers for carrying fly ash.	Noted and Complied  All raw materials are transported by covered vehicle to prevent spillage and dust generation during transportation. The fly ash is transported in enclosed bulkers.
	Provide wind shelter fence and chemical spraying on the raw material stock piles, and	Noted and Complied Covered sheds for storage of raw materials as well as fully covered conveyer for transportation of materials are provided. Cement, fly ash and clinkers are stored in silos. Water spraying arrangements are provided along the roads.
	Have separate truck parking area and monitor vehicular emissions at regular intervals.	Noted and complied.  Periodically monitoring the vehicular emission on regular basis has been done.

**ADANI CEMENT INDUSTRIES LIMITED**

	Efforts shall be made to reduce impact of the transport of the raw materials and end Products on the surrounding environment including agricultural land by the use of covered conveyor belts/ railways as a mode of transport.	Noted and Complied All the raw materials are transported by covered vehicle to prevent spillage and dust emission during transportation. The flyash is transported by bulkers. Other raw materials and finished products are transferred by rail. All raw materials are received by rail and in covered trucks. The final product is dispatched in covered bags through wagon/covered trucks and the chances of product getting mixed with environment is nullified.
	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses cement bagging plants.	Noted and Complied The ventilation system for tunnels, packing plant and compressor rooms has been designed and implemented.
<b>Water quality monitoring and preservation</b>		
i.	The project proponent shall install effluent monitoring system with respect to Standards prescribed in Environment (Protection) Rules 1986 vide G.S.R No. 612 (E) dated 25 August, 2014 (Cement) and subsequent amendment dated 9 <sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through lab recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories (case to case basis small plants; Manual: Large plants: Continuous).	Dahej Cement Grinding Unit is dry process Zero Liquid discharge (ZLD) plant. Water is required during the manufacturing of cement only for cooling of plant machinery and green belt development. Hence the water is completely consumed during the process. As a result no effluent is generated. In view of this, effluent treatment plant is not required and hence installation of effluent monitoring system is not applicable to the unit. One STP's with capacity of 10 KLD has been installed at plant. The treated domestic waste water is used for green belt development and water spraying on road for dust suppression. Water quality monitoring of STP treated water is being done and the monitoring report is being submitted to MoEF&CC with half yearly compliance report. The copy of the STP water test report is enclosed as <b>Attachment 13</b>
ii.	The project proponent shall monitor regularly ground water quality at least twice a layer (pre and post monsoon) at sufficient numbers of piezometer sampling wells in the plant and adjacent areas through labs recognised under	Noted

**ADANI CEMENT INDUSTRIES LIMITED**

	Environment (Protection) Act, 1986 and NABL accredited laboratories.	
iii.	The project proponent shall submit monthly summary report of continuous effluent monitoring and result of manual effluent testing and natural monitoring of ground Water quality to Regional office of MoEF&CC, Zonal office of SPCB along with six monthly report.	<p>Dahej Cement Grinding Unit is dry process Zero Liquid discharge (ZLD) plant. Water is required during the manufacturing of cement only for cooling of plant machinery and green belt development. Hence the water is completely consumed during the process. As a result no effluent is generated. In view of this, effluent treatment plant is not required and hence installation of effluent monitoring system is not applicable to the unit.</p> <p>One STP's with capacity of 10 KLD has been installed at plant. The treated domestic waste water is used for green belt development and water spraying on road for dust suppression. Water quality monitoring of STP treated water is being done and the monitoring report is being submitted to MoEF&amp;CC with half yearly compliance report.</p> <p>The copy of the STP water test report is enclosed as <b>Attachment 06</b></p>
iv.	Adhere to 'Zero Liquid Discharge'.	Water is required during the manufacturing of cement only for cooling of plant machinery and green belt development. Water is completely consumed during the process and Zero Liquid Discharge is being maintained.
v.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	One STP's with capacity of 10 KLD has been installed at plant. The treated domestic wastewater is used for green belt development and water spraying on road for dust suppression. Photographs of STPs are enclosed in <b>Attachment -13</b>
vi.	Garland drains and collection pits shall be provided for each stockpile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface runoff.	Noted and Complied The raw materials are kept in proper covered storage sheds and as the raw material is kept under covered shed, there is limited chances of run-off in event of heavy rain.
vii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Noted and Complied <b>Attachment 14</b>

## ADANI CEMENT INDUSTRIES LIMITED

viii.	Water meters shall be provided at the inlet to all unit processes in the cement plant	Noted and complied. Water meters are installed at all main water withdrawal and consumption points and water consumption is being monitored on a regular basis.
ix.	The project proponent shall make efforts to minimise water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	The water consumption is being monitored on a regular basis to minimize the water consumption. To minimize the water consumption, the treated wastewater from STP is used for green belt development and water spraying on road for dust suppression.
<b>III.</b>	<b>Noise monitoring and prevention</b>	
i.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the ministry as a part of six-Monthly compliance report.	Noise monitoring is periodically carried out through NABL recognized laboratory. The copy of noise monitoring report is enclosed in <b>Attachment 06</b>
ii.	The ambient noise levels should confirm to the standards prescribed under E(P)A Rules 1986 viz. 75 dB(A) during day time and 70 dB(A) during nighttime	Noise control measure i.e. acoustic hoods, silencers and enclosures have been provided at all sources of noise generation so that noise level in and around the plant remain below 75 dB(A) at daytime and 70 dB(A) at night time respectively. The copy of noise monitoring report is enclosed in <b>Attachment 06</b>
<b>IV.</b>	<b>Energy Conservation measures</b>	
i.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights parking around project area and maintain the same regularly.	Initiatives towards reduction power consumption have been taken.
ii.	Provide the projects proponent for LED lights in their offices and residential areas.	LED lights have been provided at offices for plant lighting purpose to minimize the energy consumption.
iii.	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS Standard.	Dahej Cement GU consumes waste of other industries as raw material for manufacturing of cement. The wastes of other industries being used at Dahej are: Fly ash from Power plant  It is always endeavored to ensure that the ecological balance is improved and the waste of other industries is properly utilized in the cement manufacturing

## ADANI CEMENT INDUSTRIES LIMITED

		process so as to produce high quality blended cement as per BIS std. For the period April -23 to September-23, 7855MT Fly Ash has been consumed for cement manufacturing.
<b>V.</b>	<b>Waste management</b>	
i.	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016	The spent oils, grease and lubricants are collected and sent to the store yard for temporary storage in proper containers and then finally disposed by providing it to authorized recyclers/disposers of Gujarat Pollution Control Board. The annual return of Hazardous Waste will be submitted to GPCB on regular basis.
ii.	Kitchen waste shall be composed or converted to biogas for further use (to be decided on case basis depending on type and size of plant).	Noted and complied. Kitchen waste is compost at site and used a manure in green belt development.
<b>VI.</b>	<b>Green Belt</b>	
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Plantation is being done on a regular basis to develop green belt at plant. Green belt has been developed. Area that contributes to 10% of out of total 33%
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	.Efforts are being taken for reduction of Green House Gases in terms of CO2 by installation of LED lights. The CO2 emissions inventory report is being generated on monthly basis.
<b>VII.</b>	<b>Public hearing and Human health issues</b>	
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Noted and complied. Emergency preparedness plan, Disaster management plan and HIRA has been prepared and implemented.
ii.	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Noted and complied. PPE's have been made mandatory for all workers, employees, and visitors, and incorporated in regular practice. PPEs are regularly issued and recorded as per the Factory Act.
iii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care crèche etc. The housing may be in the form of temporary	Not Applicable. No housing facility is proposed for construction labour within the proposed project area. However mobile toilets, drinking water facilities are being provided.

## ADANI CEMENT INDUSTRIES LIMITED

	structures to be removed after the completion of the project.	Medical health care and crèche facilities are already running by Adani Foundation in a nearby village.
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers are being done regularly as per the Factories Act and records on Occupational health surveillance programmed is regularly maintained for all the workers and employees associated.
<b>VIII.</b>	<b>Corporate Environment Responsibility</b>	
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1 May 2018, as applicable. Regarding Corporate Environment Responsibility.	The provisions contained in the Ministry's OM, vide F.No.25-65/2017-IA.III dated 01.05.2018 are being complied. The detail of the CER activities along expenditure incurred out during the period is given as <b>Attachment 01</b>
ii.	The company shall have well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviating/ violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as part of six-monthly report.	Adani Cement Industries Ltd. has well defined the Corporate Environmental Policy. As an integral part of our business a clean and sustainable environment is maintained by continually improving environmental performance. The copy of the Corporate Environment Policy is enclosed in <b>Attachment 12</b>
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Environment cell has been established and working under Plant Head. <b>Attachment - 9</b>
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to	Noted and Complied Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company is in place. The detail of the CSR & CER activities along expenditure incurred out during the period is given as <b>Attachment 1</b>



**ADANI CEMENT INDUSTRIES LIMITED**

	be diverted or any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.	
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted and Compliance assured
vi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	CREP is being implemented. <b>Attachment 7</b>
<b>IX.</b>	<b>Miscellaneous</b>	
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by Prominently advertising it at last in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	<ul style="list-style-type: none"> <li>• Complied</li> <li>• Information to the public regarding EC issued by the SEIAA for this project is published on 14<sup>th</sup> May 2019 both in "INDIAN EXPRESS" (English) and "GUJARAT SAMACHAR" (Gujarati)</li> <li>• Copy of advertisement is enclosed as <b>Attachment-4</b></li> </ul>
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Noted and Complied.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted and Complied (This compliance report is from April-2023 to September-2023 being submitted by ACIL for Dahej Cement Grinding Unit)
iv.	The project proponent shall monitor the Criteria pollutants level namely: PM10, SOx, NOx (ambient levels as well as stack emission) or critical sectorial parameter indicated for the project and display the same at a convenient location for disclosure to the public and put on the website of the company.	CAAQMS has been installed in the premises. The Opacity Monitor are installed at main stack and the data of CAAQMS and Opacity Monitor is displayed at prominent location. Digital display board at factory main gate is provided to display the environment data for public domain.

**ADANI CEMENT INDUSTRIES LIMITED**

		Ambient Air Quality monitoring is being carried out on regular basis. Monitoring reports for April'2023 to September'2023 is enclosed <b>Attachment - 6</b>
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest und Climate Change at environment clearance portal.	Noted and Complied (This compliance report is from April-2023 to September-2023 being submitted by ACIL for Dahej Cement Grinding Unit)
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Operation has started from June'2023. Compliance assured from next cycle of this Financial Year.
vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities. Commencing the land development work and start of production operation by the project.	The intimation has been provided to RO-GPCB, Bharuch. <b>Attachment 8</b>
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted and Compliance assured. The guidelines of GPCB are being adhered.
ix.	The project proponent shall abide by all the commitments and recommendation made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Export Appraisal Committee.	Noted and Compliance assured. Commitments made in the EIA/EMP report are being followed. The detail of EIA/EMP expenditure are attached as <b>Attachment 03</b>
x.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MokF&CC).	Noted and Compliance assured
xi.	Concealing factual data or submission of false/fabricated data may result revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted

**ADANI CEMENT INDUSTRIES LIMITED**

xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above condition not satisfactory.	Noted
xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
xiv.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions the project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Noted
xv.	The above conditions shall be enforced, inter-alia under the provision of the Water (Prevention & Control of Pollution) Act. 1974, the Air (Prevention & Control of Pollution) Act. 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	Noted
xvi.	Any appeal against this EC shall lie with the Notional Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted
	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.	Noted

Verbatims as mentioned in Transfer of Environmental Clearance in the name of Adani cement industries Limited vide letter no. SEIAA/GUJ/EC/3(b)/1752/2022 dated 07.07.2022:

## ADANI CEMENT INDUSTRIES LIMITED

➤ The name of the unit read as “Adani cement Industries Limited” in place of “Adani Cementation Limited” in a. Page1. – sub – Line 1, b. page1. – para 2 – Line 1, c. page5. – issued to – Line 1 of Environmental Clearance order no. SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/052019.

➤ Rest of all the conditions of the Environment Clearance orders no. SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019 shall remain unchanged.

### **Compliance**

- Noted and Compliance assured

**POINTWISE RESPONSE TO THE ISSUES RAISED DURING PUBLIC HEARING**

The Public consultation for the proposed Dahej Cement Grinding Plant (DCGP) of 2.0 MMTPA Capacity, was conducted on 07/12/2018 at 11:00 Hrs by Gujarat State Pollution Control Board at Project site of Dahej Cement Grinding Plant at Dahej, Taluka Vagra, District Bharuch (Gujarat).

Public hearing was chaired by Hon. **J.P. Asari (G.A.S.)**, Additional District Collector & Additional District Magistrate and Chairman of the Public Hearing Committee, district Bharuch and assisted by Mr. **R.R. Vyas**, Regional Officer, GPCB, Bharuch & representative of Gujarat Pollution Control Board (GPCB).

Total **225** persons signed on the attendance sheet; out of which **29** persons raised verbal issues while **71** nos. written issues/suggestions/objections/opinion has been raised before as well as during public hearing.

ISSUES RAISED BY PUBLIC	RESPONSE BY PROJECT PROPONENT WITH ACTION PLAN
<p><b><u>Shri Jaydeepsinh Ramsinh Rana (Sarpanch Village: Dahej, Taluka : Vagara, District: Bharuch):-</u></b></p> <ul style="list-style-type: none"> <li>As the Sarpanch of the village and a fellow villager we welcome the project of Adani Cementation Limited. We appreciate the various activities carried out under CSR by Adani Company like education, RO facility for drinking water. Company has also assured to aid us with collection of rain water in the pond. We request them to work in that direction. We also request the company to provide Job to the land losers and keep the issue of local employment on priority.</li> </ul>	<p>We thank the representator and assure them that the relevant work will be carried out accordingly.</p>
<p><b><u>Shri Ishwarbhai Melabhai Gohil Village: Lakhigam, Taluka: Vagra, District: Bharuch):-</u></b></p> <ul style="list-style-type: none"> <li>The project is welcomed. My survey no. is 118, GIDC has given me the land looser form but my son in spite of being educated has not been provided a job by the company. Also plot has not been allotted to me.</li> <li>Vacant my land or give a job to my son. In similar case others are getting job.</li> <li>I supply labour, I have not been offered work order, which is injustice to me.</li> <li>My son has studied MSW but still company is not giving the job.</li> </ul>	<ul style="list-style-type: none"> <li>Part of land allotted to company gets utilized as RoU. We have requested the GIDC and The Collector to come up with a policy. Once the rules of the policy get decided we will be able to take steps to solve the problems of the land loser and till the policy has not been decided the issues faced by the land loser will be solved indirectly.</li> <li>Once policy will be decided, company will act accordingly. No such case of land losers has been received for this particular project. If such case will be received, prompt response will be given.</li> <li>He will be given priority whenever there is a vacancy for MSW post.</li> </ul>

	<ul style="list-style-type: none"> <li>• <b>Remarks:</b> - GIDC representative has informed that list of survey numbers are also been given when plot is allotted by GIDC. Issue of ROU land i.e. land having pipeline, railway, road; has been raised with higher authority at Gandhinagar level. This issue is pending till date. Once policy will be decided at Gandhinagar level, then only decision can be made in such cases. Issue of land losers is raised at higher level whose land having pipeline, railway, road in it.</li> </ul>
<p><b><u>Shri Bhurabhai Shivabhai Gohil, Village: Lakhigam, Taluka: Vagra, District: Bharuch</u></b></p> <p>I have filled the land loser form and submitted along with the map to the company since 2014 but have not received satisfactory answer till date.</p>	<p>This case is similar to the case discussed previously. As suggested, till a specific policy is not enacted we will try to provide indirect help.</p>
<p><b><u>Shri Rakshit Makwana Village: Lakhigam, Taluka: Vagra, District: Bharuch</u></b></p> <ul style="list-style-type: none"> <li>• Why issues of land losers whose land has been allotted for the coal silo and railway track haven't been resolved since last 18 years? My land survey no. is 142. There are about 40 land losers like me whose issues are not resolved yet.</li> <li>• Land for sport ground should be allotted.</li> </ul>	<p><b>Remarks:-</b></p> <p>The representative from GIDC has informed that the applications were made 18 years ago. It was discussed in earlier meeting that all the nearby companies would take the social responsibility and make efforts to solve the land losers issues but consensus has not arrived then after. The chairman has asked to list down the names of the land losers having similar issue and requested the GIDC to inform the collector and arrange for a meeting and suggested that this issue should also be raised in Jilla Sankalan Meeting. GIDC representative has informed that this suggestion will be forwarded to head office.</p>
<p><b><u>Shri Gohil IshwarBhai NarsinhBhai Village: Lakhigam, Taluka: Vagra, District: Bharuch</u></b></p> <ul style="list-style-type: none"> <li>• Company should be behave politely to the local residents when they visit company's office. A person like Bhagwanbhai master has died &amp; his land is also acquired. Companies like RIL, GCPTCL, Adani etc give assurance for job but they don't actually offer.</li> <li>• Even though there are educated students still they are not given the job. Education should be provided to the uneducated and training to the untrained people and also provide with the job so that they can start their livelihood.</li> </ul>	

<p><b><u>Shri. Bhavesh Gohil Village: Lakhigam, Taluka: Vagra, District: Bharuch</u></b></p> <ul style="list-style-type: none"> <li>• How many land losers and local villagers have been given jobs in the projects earlier established by Adani Company?</li> <li>• According to the earlier EIA report it is stated that the measures will be taken to control air pollution caused due to conveyor belt. Provide details. As stated earlier the coal will be brought in the ratio of 60:40, but it seems that this ratio of coal and water is not maintained, Is the coal brought in the ratio of 60:40?</li> <li>• Whether these teams are coming to villages?</li> <li>• It is well known fact that there is problem of dusting in our village. If your vehicles would have been cleaned then roads would not have been in such bad conditions.</li> <li>• In the situation accident/ mishap what should be done? How should be inform?</li> </ul>	<p>At present, the Adani Company is providing job to 25 local villager of Lakhigam; out of which 10 are land losers. Also 75 villagers of Lakhigam are provided employment indirectly. Provisions have been made to prevent dust emission from the belt conveyor; Step has been taken to prevent the coal dusting like installation of hopper at jetty, installation of dust suppression system, covering of the conveyor belt, installation of wind shield. The wind shield is 1.5 to 2 m. taller than the coal storage. Sprinkling of water is done manually. For the continuous sweeping of the road, two mounted trucks and one mounted tractor are functional. Total 5 teams (each team comprises of 6 persons) are involved in this activity. Truck tyres are washed. Increase in the green belt as much as possible and time to time monitoring will be conducted. Currently AAQM station near GCPTL is in function. Further suggestions are also welcomed. Let us know about the help is needed and team will definitely come and act accordingly. The air pollution in this area may not be solely of Adani Company. Air quality monitoring is carried at six different places by us. One of such station is situated near Lakhigam. During any such incidents, you may inform Bhavesh Bhai. He is the responsible person of the company. We assure that prompt actions will be taken in such cases.</p>
<p><b><u>Shri Lakshman Sinh Gohil, Village Lakhigam, Taluka: Vagra, District: Bharuch</u></b></p> <ul style="list-style-type: none"> <li>• We appreciate that Adani Company has done some good works in our village. Ours is big village. Earlier if any function was to be organized, there was only one temple available. We used to face lot of problems when three or more functions were to be organized simultaneously. Adani Company helped by building community hall of capacity of 1000 persons. Moreover, facilities such as medical checkup, mobile clinic are provided by company. It is our request that there should be improvement in medical facility. Permanent</li> </ul>	<p>Steps will be taken positively as per suggestions given related to health.</p>

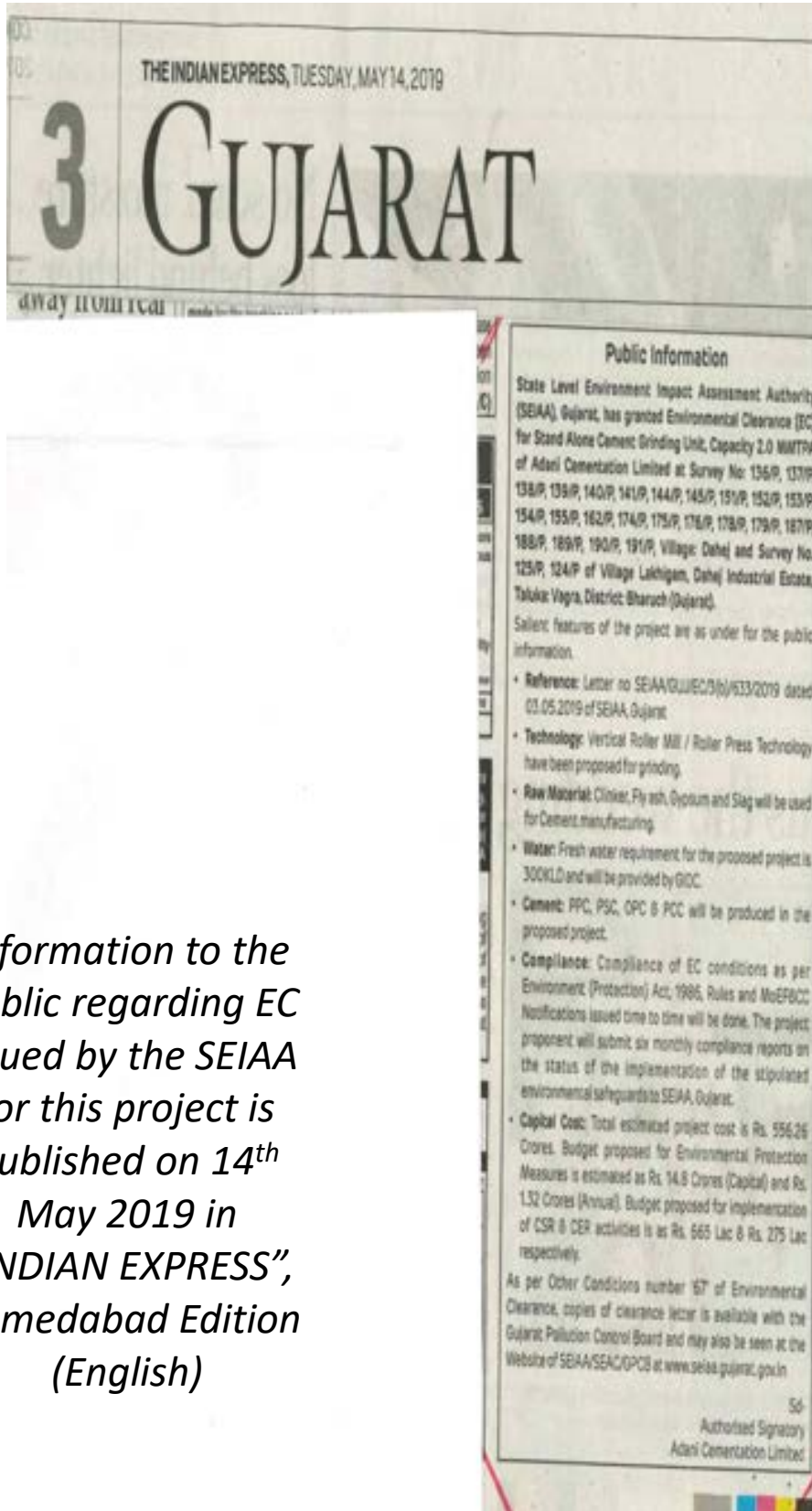
<p>ambulance, doctor and land for this purpose should be allotted with coordination of Panchayat.</p>	
<p>• <b><u>Shri Aahir Jayantibhai (Sarpanch) Village: Luvara, Taluka: Vagra District: Bharuch</u></b></p> <p>• Since last 10 years the company who visited the village most is Adani and also they focused on every individual's development. I whole heartedly welcome the company. In my village the company has granted 58 houses out of which 22 have been built. Also the facilities of school and hospitals are provided. I would like to share the feeling that we just need a good environment to live in.</p>	<p>The company is thankful for your response and necessary steps would be taken as suggested by you.</p>
<p><b>Vilasben B Patel, Sarpanch, Village Jageshwar, Taluka: Vagra, District: Bharuch.</b></p> <p>• Houses have been built for us by the company. Rooms have also been constructed in Primary School Teacher has also been appointed. Programmes have also been launched for the Kids suffering from Kuposhan. C.C.T.V Cameras has also been installed at High School. Some more development is also expected by the village and also we welcome the upcoming project.</p>	<p>• This is our social responsibility and we would continue doing such activities in future too.</p>
<p><b>Shri Jayendrasinh Rana, Village: Dahej, Taluka: Vagra, District: Bharuch</b></p> <p>• How would company provide the employment to the local residents? What is the definition of locals? How are we going to be considered as locals or as affected?</p> <p>• As per law 85% local employment to be given to local people. In Dahej facilities like R.O, Bus station has been provided and for that we are grateful to the company. We request that Dahej should also be provided with the ambulance.</p> <p>• If the company does violate the terms of E.I.A then to whom the complain should be registered?</p> <p>• For CSR fund by whole to inform?</p> <p>• In the railway corridor the land has been surrendered which is now used by adani thane who would solve the questions regarding the land losers?</p> <p>• From where we will get the C.D for the public hearing.</p>	<p>• We would think for the suggestion to provide the ambulance.</p> <p>• Thanks. As per the Adani Company's procedure, it is reported that after contacting the people of the village, after considering the discussion from head office as per the village requirements, the annual budget will be implemented.</p> <p>• We have discussed this earlier.</p> <p>• <b>Remarks:-</b></p> <p>• Chairman stated that those who have lost the land are considered to be the land looser and all such should be provided with the job. People residing in Bharuch district are considered to be local.</p> <p>• Regional officer has informed that as per the notification of central government EIA report should be approved by authorized organization and the structure for same is also decided. After the EIA report is made and Environmental Clearance is obtained after which the compliance verification is done , if the permission is obtained by MoEF then the verification would be done by the</p>



	<p>same department and if at the state level environmental clearance is obtained from SEAC then state level forest and environment department shall process for EC condition verification. Recently it is decided that state pollution control board can also monitor the compliance of E.C conditions and if the EIA norms are violated then you can inform the board.</p> <ul style="list-style-type: none"> <li>• The Regional officer stated that the details of Public Hearing is available on the website.</li> </ul>
<ul style="list-style-type: none"> <li>• <b><u>Shri Aahir Rahulkumar Lakshmanbhai Village:luvara, Taluka: Vagara,Dist: Bharuch</u></b></li> <li>• 75% of the progress of Lakhigam Village is due to Adani and still we expect the company to continue the same in future along with that we welcome the upcoming project. The company will take action to prevent pollution.</li> </ul>	<ul style="list-style-type: none"> <li>• Expressing gratitude, the modern technology will be set up in the company. And the work related to the development of the village will be increased gradually.</li> </ul>
<ul style="list-style-type: none"> <li>• <b><u>Manharbhai makwana - majiSarpanch, Village: Lakhigam, Taluka: Vagara, Dist: Bharuch</u></b></li> <li>• I welcome the Adani Cementation Plant. We do not oppose if people are getting employment.</li> <li>• An incident took place in 2012 in Lakhigam, for which 75 number of people still have to go to the court frequently. We asked for the settlement of the same because people have to go to the court leaving their jobs daily. They are poor people. We request Adani for coming up with the solutions for the guiltless people and we have no problem in that. And take care for the greenbelt also.</li> <li>• Steps should be taken for the students of primary school walking to the school from Navinagri.</li> </ul>	<ul style="list-style-type: none"> <li>• Thank you so much. If we have the opportunities for employment, we will give information and prefer to be employed in the employment.</li> <li>• The incident which occurred in 2012 was unfortunate. It is a legal matter now but we show affirmation for the same. And after 2012 the relationship between company and village has improved. The company guarantees positive attitude.</li> <li>• The company has built a bus stand in the village and regarding the safety for students, we will along with the people of the village, will work towards it to provide safe route for the students to go to school.</li> </ul>
<ul style="list-style-type: none"> <li>• <b><u>Shri NareshGohil, Vill: Lakhigam, Taluka: Vagara, Dist: Bharuch</u></b></li> <li>• Is the raw material brought via sea route or via truck? Will the conveyer shut down at night or keep functioning? It is difficult to sleep at night. Noise pollution occurred during night hours.</li> <li>• Ask to GIDC that will GIDC give its return if the land is gone in silo. We gave land 18 years ago</li> </ul>	<ul style="list-style-type: none"> <li>• The raw material is clinker which is brought via trucks. We have analyzed the noise in 16 places. Apart from this, surveys will be done at different places in the village.</li> <li>• <b>Remarks:-</b> GIDC representative said that while the plot is allotted to GIDC, a list of company landlords is given.</li> </ul>
<ul style="list-style-type: none"> <li>• <b><u>Shri Narendrasinh Rana, Vill: Dahej, Taluka: Vagara, Dist: Bharuch</u></b></li> <li>• Who will get jobs for landlords who have landed in a channel or road. GIDC urges that this question be taken seriously and will not be</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>

<p>resolved in future, otherwise the movement will be held in the future. Adani has done good work in the villages. Request to do good works in Dahej.</p>	
<p><b><u>Shri Shraavan Shankarbhai Rathod Navinagri,</u></b>  <b><u>Village:Lakhigam, Taluka: Vagara</u></b>  <b><u>District: Bharuch</u></b></p> <ul style="list-style-type: none"> <li>• The company has been made buildings, temples and water tanks, give net for Fisheries business in our village. Thanks to the company for this.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>
<p><b><u>Shri Naresh. D. Gohil, Village:Lakhigam Taluka: Vagara, District: Bharuch</u></b></p> <ul style="list-style-type: none"> <li>• I would like to support for the issue of Land losers. Company has distributed helmets thinking for road safety, the rest who are left out will be provided with the helmets is expected from the company. The open land near the conveyor belt should be filled with tree plantation so that dusting can be reduced and the maintenance for the same should be done till its full growth. We expect that lakes of lakhigam should be developed by the company.</li> </ul>	<ul style="list-style-type: none"> <li>• We welcome your suggestions. Getting the direction from GIDC and their agreement the steps in the direction of tree plantation would be taken into consideration, also for the rest of the suggestions locals will be contacted and necessary steps would be taken.</li> </ul>
<p><b><u>Shri ParmarKrupali, Vill: Jolva,Ta.: Vagra Dist: Bharuch</u></b></p> <ul style="list-style-type: none"> <li>• Today where ladies and youngsters in industrial areas are educated and are unemployed, this company has given us the employment.</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>
<p><b><u>Shri Sureshbhai Patel, Vill: Luvara,Tal: Vagra, Dist: Bharuch</u></b></p> <ul style="list-style-type: none"> <li>• Today, 25% of the people in luvara village are involved in the animal husbandry. Company takes care of the medical services for the same which is very helpful. We request that the villagers of luvara also get employment.</li> </ul>	<ul style="list-style-type: none"> <li>• The company will give the priority to the local people for the employment.</li> </ul>
<p><b><u>Shri Badalbhai karsanbhai gohil Vill: Suva,Ta. Vagra, Dist: Bharuch</u></b></p> <ul style="list-style-type: none"> <li>• In the year 2008-2009, the village has increased its area from 800 acres to 900 acres. For that, what has the company inquired about?</li> <li>• The work should be done under the CSR and survey should be done in the Suva village.</li> </ul>	<ul style="list-style-type: none"> <li>• The land for Adani power, dahej was obtained from Suva village. But because of many reasons, the project is unable to carry forward. In future, according to the progress of the industry, villagers who have lost their land will be employed.</li> <li>• Company currently works on the CSR activities in Suva village. Also, after suitable suggestions, steps will also be taken for providing houses.</li> </ul>
<p><b><u>Shri Bhailalbhaigohil, Vill: Lakhigam Ta: Vagra, Dist: Bharuch</u></b></p> <ul style="list-style-type: none"> <li>• Advertisement for the Recruitment for the company should be given in the local newspaper. For the employment recruitment, campus</li> </ul>	<ul style="list-style-type: none"> <li>• In the company, when a large number of employees are required, it is reported through the newspaper. The campus interview is also held when there is a large need.</li> </ul>

<p>interviews should be conducted in the colleges of the Bharuch district. Gram panchayat should be informed about the same.</p>	
<p><b><u>Mrs. Nirmalaben Thakorbbhai Gohil Village: Lakhigam, Taluka: Vagra, District: Bharuch</u></b>          Keeping in mind the Transportation Safety for children coming from navinagari in Lakhigam, a suitable transport service is available to go to school.</p>	<ul style="list-style-type: none"> <li>• Answer Regarding Safety is mentioned above</li> </ul>
<p><b>Shri Vijaysinh Rana , Village: Dahej, Taluka: Vagra, District: Bharuch</b>          The lake located near the temple of lakhabava should be properly cleaned and activity of boating should be developed so that faith may be restored.</p>	<ul style="list-style-type: none"> <li>•</li> </ul>
<p><b>Ashwini Rana, Village: Dahej, Taluka: Vagra, District: Bharuch</b>          Due to Adani Limited employment is provided to me. Others should also be provided with same employment opportunities as promised.</p>	<ul style="list-style-type: none"> <li>•</li> </ul>
<p><b>Rakshaben Parmar, Village: Jageshwar, Taluka: Vagra, District: Bharuch</b>          Sakhi Mandal is operated by Adani Foundation due to which employment is provided to us. We suggest to you that same should be done in other near-by villages.</p>	<ul style="list-style-type: none"> <li>•</li> </ul>
<p><b>Rekhaben Kamleshbhai, Village: Jageshwar, Taluka: vagra, District: Bharuch</b>          Five machines have been provided to us by Adani foundation. By the use of which we make school bags as per the order from Adani Limited but the employment is intermittent and not throughout the year.</p>	<ul style="list-style-type: none"> <li>•</li> </ul>



*Information to the public regarding EC issued by the SEIAA for this project is published on 14<sup>th</sup> May 2019 in "INDIAN EXPRESS", Ahmedabad Edition (English)*

મંગળવાર, તા.૧૪ મે, ૨૦૧૯

ગુજરાત સમાચાર (વડોદરા આવૃત્તિ) ૧૫

**ખહેર માહિતી**

સેંટર ઇવન એવ્યામનિટ ઇએસએસ એલેગેન્સી (એસ.ઈ.આઈ. એ.એ.), ગુજરાત હાથ ધરાઈ સિમેન્ટેશન લિમિટેડની સેંટર ઇવન સિમેન્ટ ડાઈલિંગ પાલક માટે એવ્યામનિટ સિલવરસ (ક.સી) સંસ્થાનાં ઇસ્યુ છે જેની કમ્પ્લેટ ર.૦ એમ.એમ.ટી.વી.એ. ઈ. સર્વે. 136/P, 137/P, 138/P, 139/P, 140/P, 141/P, 144/P, 145/P, 151/P, 152/P, 153/P, 154/P, 155/P, 162/P, 174/P, 175/P, 176/P, 178/P, 179/P, 187/P, 188/P, 189/P, 190/P, 191/P, અને રૂઢેવ અને સર્વે નં. 125/P, 124/P અને લખિવળ, હાંધેવ ઈએલેક્ટ્રીક એજેન્ટ, લાલુભ વાગર, ગુજરાત ભરૂચ (ગુજરાત).

એજેન્ટની મુખ્ય ઇસ્યુસિટીઓની માહિતી ડાન પાલકની ખસકાઈ માટે નીચે મુજબ છે:

- **સંકર્ષ** એસ.ઈ.આઈ.એ.એ., ગુજરાતના પત્ર SEIAA/GUJ/EC/ 3(બી)/633/2019 ટાઈમ ૦૩.૦૫.૨૦૧૯
- **ટેકનીકલ** વર્કિંગ ડોક્યુમેન્ટ / ડોક્યુમેન્ટ ટેકનોલોજી મહત્તમ હાથ ધરાઈ સિમેન્ટ મટેમટાલિટ છે.
- **કામો** માલ સિલિંગ, રામ, જુરમ અને સેંગનો ઉપયોગ સિમેન્ટ સિલવરસ માટે કરવામાં આવશે.
- **પાલકો** સુલિટ એજેન્ટ માટે પાલકોની વરૂણિત 300 કિલો સિલર ખરી દિવર છે, અને તે જુ.આઈ.ડી.ટી. હાથ ધરૂં પડવામાં આવશે.
- **સિલિંગ** મટેમટાલિટ એજેન્ટમાં વી.પી.ટી., વી.એસ.ટી., સી.પી.ટી. અને વી.ટી.ટી. પ્રકારનો સિમેન્ટ વપરાવામાં આવશે.
- **લાલુભવાલ** ખર્ચાવર (કંચેશ) કામથી, ૧૮૮ અને એમ.સી.ટી. એજેન્ટ અને સી.ટી. થાસો સમુદાય ઇ.ટી. થાસોનું પાલક કરવામાં આવશે. એજેન્ટ મટેમટાલિટ, ગુજરાત માટે ખર્ચાવરથી સલામતીના અભીલેખનો સિલિટિ પર ઇ મલિક પાલક અર્થવાજ જુલિંગ ને રજૂ કરશે.
- **મૂલ્યો** આઈ સુલ સમુદાય એજેન્ટ અર્થ ૩. ૧૧૬.૨૬ કરોડ છે. ખર્ચાવરથી સુરક્ષા ખર્ચાં હેતુ આશરે રૂ. ૧૪.૮ કરોડ (મૂડી) અને રૂ. ૧.૩૨ કરોડ (વર્કિંગ) જુ.એજેન્ટ અર્થમાં મટેમટાલિટ કરવામાં આવશે છે. ઈએલેક્ટ્રીક અને સીલવર મટેમટાલિટ અભીલેખનો અને સમુદાય અર્થે રૂ. ૬૬૧.૦૧૫, રૂ. ૨૩૫ અને મટેમટાલિટ કરવામાં આવશે છે.

એવ્યામનિટ સિલવરસની અભ્યુચારો સંખ્યા '૬૩', સિલવરસ સેન્ટરની માલકો ગુજરાત પ્રજાસક્તિ સિલવરસ એન્ટ ટાઈ ઇવન છે જે SEIAA / SEAC / GPCB ની વેબસાઈટ [www.seiaa.gujarat.gov.in](http://www.seiaa.gujarat.gov.in) પર વધુ ખેલે થકાસ છે.

એસ.ઈ.એ.  
સેલિટિટ ઇસ્યુસર  
અટાઈ સિમેન્ટેશન લિમિટેડ

Information to the public regarding EC issued by the SEIAA for this project is published on 14<sup>th</sup> May 2019 in "GUJARAT SAMACHAR", Vadodara Edition (Gujarati)



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,  
GANDHINAGAR - 382010,  
(T) 079-23232152

By R.P.A.D.

**CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)**  
**CCA NO: AWH-126677**

**NO: GPCB/BRCH/CCA-1671/ID-82422/** **DT: /06/2023**

In exercise of the power conferred under Section-25 of the Water (Prevention and Control of Pollution) Act-1974, under Section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under rule 6(2) of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986.

And whereas Board has received consolidated application dated 10/03/2023 and inward no. 274154 for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts, Consolidated Consent & Authorization is hereby granted as under.

**CONSOLIDATED CONSENT AND AUTHORISATION:**

(Under the provisions / rules of the aforesaid Environmental Acts)

To,

M/s. Adani Cement Industries Limited,  
Plot No: 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
village: Dahej in Dahej Industrial Estate,  
Ta. Vagra, Dist. Bharuch.

1. Consent Order No. : AWH-126677 date of Issue 01/06/2023.
2. The consent under Water Act -1974, Air Act - 1981 and Authorization under Environment (Protection) Act, 1986 shall be valid up to 09/03/2028 to operate industrial plant to manufacture following products:

Sr. No.	Products	Quantity
1	Portland Pozzolana Cement (PPC)	1.25 MMTPA
2	Ordinary Portland Cement (OPC)	
3	Portland Slag Cement (PSC)	
4	Portland Composite Cement (PCC)	

**SPECIFIC CONDITIONS:**

- a) Unit shall not use Hot Air Generator (HAG) without obtaining amendment in EC and CTE & CCA as per submitted assurance letter vide dated 11/05/2023.
- b) Unit shall provide OCEMS as per CPCB's guidelines/directions.
- c) Unit shall comply all the conditions of EC dated 03/05/2019 and EC Amendment (EC transfer/name change) dated 07/07/2022.
- d) Unit shall maintain ZLD.

*Signature*

- e) Unit shall not carry out any construction activities and production which attracts provisions of Environment Clearance without obtaining EC from competent authority under EIA notification dated 14/09/2006 and amended thereafter.
- f) All the efforts shall be made to send hazardous waste to Co- processing/Pre-processing facility first & there after it shall be disposed through other options.
- g) **Unit shall comply environmental guidelines for prevention and control of Fugitive Emissions from Cement Plants published by CPCB.**

3. **CONDITION UNDER THE WATER ACT:**

- 3.1 The quantity of total water consumption shall not exceed **193 KLD** as per below break up:
- a) Domestic: 10 KLD
  - b) Industrial: 174 KLD
  - c) Gardening: 9 KLD

- 3.2 The quantity of total waste water generation shall not exceed **13 KLD** as per below break up:
- a) Domestic: 9 KLD
  - b) Industrial: 4 KLD

3.3 Mode of disposal of wastewater:

- a) 4 KLD industrial wastewater generated from cooling tower shall be neutralized and used for dust suppression within premises. **Hence, unit shall maintain ZLD.**
- b) Domestic wastewater 9 KLD shall be treated in STP. After conforming following standards, treated domestic wastewater shall be reused for gardening/plantation purpose within premises.

Parameters	Norms
pH	6.5 to 9
TSS	< 100 mg/l
Fecal Coliform ( Most Probable Number per 100 milliliter , MPN/100ml)	<1000 MPN/100ml
BOD (3 days 27 degree C)	<30 mg/l

- 3.4 Unit shall affix of water meters for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.
- 3.5 The GIDC drainage connection given by the GIDC for discharge of industrial effluent shall be disconnected & the outlet shall be sealed.
- 3.6 Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent.
- 3.7 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by



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statutory authorities. The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issued. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.

- 3.8 The Environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30<sup>th</sup> September every year.
- 3.9 The Board reserves the right to review and/or revoke the consent and / or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.

#### 4. CONDITIONS UNDER THE AIR ACT:

- 4.1 The following shall be used as fuel:

Sr. No.	Name of fuel	Quantity
1.	Diesel	600 Lit/Year

- 4.2 The flue gas emission through stack shall conform to the following standards:

Stack No.	Stack attached to	Stack Height	APCM	Parameter	Permissible limit
1	DG Set (500 KVA)	18 m	--	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/Nm <sup>3</sup> 100 ppm 50 ppm

- 4.3 The Process emission through various stacks/ vent of reactors, process, vessel shall conform to the following standards:

Stack No.	Stack attached to	Stack Height	APCM	Parameter	Permissible limit
1	Cement Mill (1No.)	70 m	Bag Filter	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/Nm <sup>3</sup> 100 ppm 50 ppm
2	Packing Plant (1No.)	50 m	Bag Filter		
3	All Conveyor belts and transfer points (6Nos.)	30 m	Bag Filter		
4	All raw materials(1No.) and finished products Silos(2Nos.)	30 m	Bag Filter		

*Handwritten signature/initials*



- 4.4 The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.

Sr. No.	Parameters	Permissible Limit (microgram /m <sup>3</sup> )	
		Annual	24 Hours Average
1.	Particulate Matter (PM <sub>10</sub> )	60	100
2.	Particulate Matter (PM <sub>2.5</sub> )	40	60
3.	Oxides of Sulphur (SO <sub>x</sub> )	50	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	40	80

- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
  - 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.
- 4.5 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.
- 4.6 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.
- 4.7 Unit shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4.8 Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.
- 4.9 All efforts shall be made to control VOC emissions and odor problem, if any.

**5 GENERAL CONDITIONS: -**

- 5.1 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.
- 5.2 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 5.3 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process and the name of proprietor/partners /directors of the unit and the electricity consumer number as on the record.



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,  
GANDHINAGAR - 382010,  
(T) 079-23232152

## 6. AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6(2)).

6.1 Number of authorization: AWH-126677 date of Issue 01/06/2023.

6.2 M/s. Adani Cement Industries Limited is hereby granted an authorization to Operate facility for following hazardous wastes on the premises situated at Plot No: 136/P to 141/P, 144/P, 145/P, 151/P to 155/P, 162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of village: Dahej in Dahej Industrial Estate, Ta. Vagra, Dist. Bharuch.

Sr. No.	Name of Haz. Waste	Category No.	Quantity	Facility and Final Disposal
1	Used Oil	5.1	0.1 MTPA	Collection, Storage and Reuse or Transportation and Disposal by sending to Registered Recycler/Refiner
2	Cotton Rags	33.2	0.3 MTPA	Collection, Storage, Transportation and Disposal by sending to CHWIF
3	Discarded Containers	33.1	1000 Nos./ Annum	Collection, Storage, Detoxification/Decontamination and Reuse or Transportation and Disposal by sending to authorized Decontamination facility.

6.3 The authorization is granted to operate a facility as above.

6.4 The authorization shall be in force for a period up to 09/03/2028.

6.5 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

### 7. TERMS AND CONDITIONS OF AUTHORISATION:

7.1 The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.

7.2 The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Gujarat Pollution Control Board.

7.3 The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.

7.4 Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.

7.5 The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;

Outward

21/5

- 7.6 The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
- 7.7 It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- 7.8 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 7.9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 7.10 The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- 7.11 The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.
- 7.12 An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016.
- 7.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 7.14 Annual return shall be filed by June 30<sup>th</sup> for the period ensuring 31<sup>st</sup> March of the year.
- 7.15 Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14<sup>th</sup> October 2003.
- 7.16 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.
- 7.17 Unit shall have to manage used or spent oil; empty or discarded barrels /containers /liners contaminated with hazardous chemicals /wastes, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986 and shall apply Authorization for all applicable waste.

FOR AND ON BEHALF OF  
GUJARAT POLLUTION CONTROL BOARD

(IREAN KAGZI)  
ENVIRONMENT ENGINEER



## GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382010

Phone : (079) 23222425

(079) 23222152

Fax : (079) 23232156

Website : www.gpcb.gov.in

### Application For CTE after EC

CTE-46900

File No : GPCB/ (PCB ID. - 82422)

To,

M/s. Adani Cementation Limited,

136/P to 141/P, 144/P, 145/P, 151/P to 155/P, 162/P, 174/P to 179/P, 187/P to

191/P, Adani Cementation Limited, GIDC- Dahej Industrial Area,

City : Ahmedabad ,

Dist : Bharuch ,

Taluka : Vagra

Sub: Consent to Establish (After obtaining Environment Clearance) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.

Ref: (1) Your online application No. 195332 dated 15/05/2021

(1) Environment Clearance issued by State Authority vide their letter no. SEIAA/GUJ/EC/3(b)/633/2019 Dated 03/05/2019

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants **Consent to Establish (After obtaining Environment Clearance) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981** for manufacturing of products as mentioned into the Environment Clearance (EC) granted vide letter under reference no (2) above.

#### Consent To Establish Is Granted Subject To The Following Conditions: -

- 1) The validity period of this CTE shall be Seven Years from the issue of this order.
- 2) Applicant shall strictly comply with all conditions stipulated by competent authority in the order of Environment Clearance issued vide letter under reference No. : 2 above.
- 3) The applicant shall however, not without the prior concern of the Board. Bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the water Act - 1974, the Air - 1981 and the Environment (Protection) Act - 1986.



For and on behalf of  
Gujarat Pollution Control Board

*F.M. Modi*

F.M. Modi  
ROH Head - Bharuch

This order is issued to 136/P to 141/P, 144/P, 145/P, 151/P to 155/P, 162/P, 174/P to 179/P, 187/P to 191/P, Adani Cementation Limited, GIDC- Dahej Industrial Area, City : Ahmedabad, Dist : Bharuch, Taluka : Vagra (82422) for CTE amendment after obtaining EC.



# Gujarat Pollution Control Board

C-1/119/3, GIDC, Phase-II, Narmadanagar, BHARUCH-392 015. Phone : (02642) 246333  
Email : ro-gpcb-bhar@gujarat.gov.in Web site : www.gpcb.gujarat.gov.in

By. RPAD

NO:GPCB/PCB ID-82422/

Date:-

To,  
M/s. Adani Cement Industries Limited,  
Survey no. 136/P, 137/P, 138/P, 139/P,  
139/P, 140/P, 141/P, 144/P, 145/P, 151/P,  
152/P, 153/P, 154/P, 155/P, 162/P, 174/P,  
175/P, 176/P, 178/P, 179/P, 187/P, 188/P,  
189/P, 190/P, 191/P, Village: Dahej,  
Dahej Industrial estate,  
Tal: Vagra, Dist: Bharuch.

Sub: Amendment to Consent to Establish under section 25 of Water Act 1974 and Section 21 of Air Act 1981.

Ref: 1. Your application having Inward ID-262067 dated 22/07/2022.  
2. EC having letter no: SEIAA/GUJ/EC/3(b)/1752/2022 dated 07/07/2022.  
3. CTE after EC having outward no: 16408 dated 01/08/2022.

This is reference to CTE after EC Order issued vide File No. GPCB/(PCB ID-82422)/16408 dated 01/08/2022 under Section 25 of Water Act 1974 and Section 21 of Air Act 1981 and EC having letter no: SEIAA/GUJ/EC/3(b)/1752/2022 dated 07/07/2022.

With reference to above, the said CTE after EC order is amended as under:

1. The name in CTE after EC Order dated 01/08/2022 shall be read as "Adani Cement Industries Limited" instead of "M/s. Adani Cementation Limited."
2. All other conditions of CTE after EC Order issued vide File No. GPCB/(PCB ID-82422)/16408 dated 01/08/2022 shall remain unchanged.

For and on behalf of  
Gujarat Pollution Control Board

*M. U. Patel*  
20/8/22  
(M. U. Patel)  
Regional Officer

Copy To:

1. The Unit Head-Bharuch, Head office GPC Board, Gandhinagar.....For information.

GPCB ID: 82422

Outward No: 2432, 20/08/2022

**Environmental Monitoring  
(April - 2023 to September- 2023)**



# Royal

## Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Meta Mawa, RAJKOT - 360 005.  
Ph: +91 9099919854 • E-mail: royalenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 201/06/2023-24

Date: 01/07/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company :** M/s. Adani Cement Industries Limited,  
Plot No. 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 1
01	Date of Sampling	---	23/06/2023
02	Time of sampling	Hr.	09:15
03	Stack Attached to	---	Cement Mill
04	Air Pollution Control Measures	---	Bag Filter
05	Stack Height	Meter	70
06	Stack Diameter	Meter	---
07	Stack Temperature	°C	73
08	Ambient Temperature	°C	29
09	Average Velocity of Flue Gases	m/Sec.	7.7
10	Isokinetic flow rate for P.M. Sampling	LPM	22
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	49
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 25/12/2022

  
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Analyst



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Ph: +91 9099919954 • E-mail: royalservice@live.com • admin@royalconsultancy.com

Ref. No. : 202/06/2023-24

Date:01/07/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 2
01	Date of Sampling	---	23/06/2023
02	Time of sampling	Hr.	09:40
03	Stack Attached to	---	Packing Plant (1 No.)
04	Air Pollution Control Measures	---	Bag Filter
05	Stack Height	Meter	50
06	Stack Diameter	Meter	---
07	Stack Temperature	°C	79
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.8
10	Isokinetic flow rate for P.M. Sampling	LPM	21
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM,	mg/Nm <sup>3</sup>	39
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

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Ref. No. : 203/06/2023-24

Date: 01/07/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company :** M/s. Adani Cement Industries Limited,  
Plot No. 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 178/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 3
01	Date of Sampling	---	23/06/2023
02	Time of sampling	Hr.	10:10
03	Stack/vent Attached to	---	Conveyor belt L11BC1 Vent
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	73
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.5
10	Isokinetic flow rate for P.M. Sampling	LPM	24
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	37
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

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*Dahej*  
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Ref. No. : 204/06/2023-24

Date:01/07/2023

### STACK EMISSION MONITORING ANALYSIS

Name of Company : M/s. Adani Cement Industries Limited,

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 4
01	Date of Sampling	---	23/06/2023
02	Time of sampling	Hr.	10:50
03	Stack/Vent Attached to	---	Conveyor belt 531BC1 transfer point Vent
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/ vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	75
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.5
10	Isokinetic flow rate for P.M. Sampling	LPM	23
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	37
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 28/12/2022

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*Chavali*  
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## Environment Auditing & Consultancy Service

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Ph: +91 9099919954 • E-mail: royalservice@live.com • admin@royalconsultancy.com

Ref. No. : 205/06/2023-24

Date:01/07/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company :** M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 5
01	Date of Sampling	---	23/06/2023
02	Time of sampling	Hr.	11:10
03	Stack/vent Attached to	---	Conveyor belt K11BC1 transfer point vent
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	72
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.2
10	Isokinetic flow rate for P.M. Sampling	LPM	20
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	33
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

Royal Environment Auditing & Consultancy Service



*[Signature]*  
Analyst



# Royal

## Environment Auditing & Consultancy Service

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Ph.: +91 9099919954 • E-mail : royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 206/06/2023-24

Date:01/07/2023

## STACK EMISSION MONITORING ANALYSIS

Name of Company : M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 6
01	Date of Sampling	—	23/06/2023
02	Time of sampling	Hr.	11:45
03	Stack/vent Attached to	—	Conveyor belt 491BC1 transfer point
04	Air Pollution Control Measures	—	Bag Filter
05	Stack/Vent Height	Meter	30
06	Stack/Vent Diameter	Meter	—
07	Stack/Vent Temperature	°C	72
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.5
10	Isokinetic flow rate for P.M. Sampling	LPM	23
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	37
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

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## Environment Auditing & Consultancy Service

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Ref. No. : 207/06/2023-24

Date:01/07/2023

### STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 7
01	Date of Sampling	---	23/06/2023
02	Time of sampling	Hr.	12:20
03	Stack/Vent Attached to	---	Conveyor belt 491BC2 transfer point
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/vent Diameter	Meter	---
07	Stack/ Vent Temperature	°C	76
08	Ambient Temperature	°C	32
09	Average Velocity of Flue Gases	m/Sec.	7.5
10	Isokinetic flow rate for P.M. Sampling	LPM	21
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	37
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

Royal Environment Auditing & Consultancy Service



Analyst



# Royal

## Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.  
Ph.: +91 9099919954 • E-mail : royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 208/06/2023-24

Date:01/07/2023

### STACK EMISSION MONITORING ANALYSIS

Name of Company : **M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 8
01	Date of Sampling	---	23/06/2023
02	Time of sampling	Hr.	12:55
03	Stack/Vent Attached to	---	Conveyor belt K11BC2
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/Vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	75
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.6
10	Isokinetic flow rate for P.M. Sampling	LPM	23
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	34
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack KII model No. ESS - 100  
Calibration done on : 26/12/2022

  
Royal Environment Auditing & Consultancy Service



  
Analyst



# Royal

## Environment Auditing & Consultancy Service

Plot No. 19 & 20, Bk. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.  
Ph.: +91 9099919954 • E-mail : royaleenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 209/06/2023-24

Date: 01/07/2023

### STACK EMISSION MONITORING ANALYSIS

**Name of Company :** M/s. Adani Cement Industries Limited,  
Plot No. 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	CS-01 Vent	CS-02 Vent
01	Date of Sampling	---	23/06/2023	23/06/2023
02	Time of sampling	Hr.	13.25	14.00
03	Stack/Vent Attached to	---	Cement Silo -1	Cement Silo -2
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack/Vent Height	Meter	30	30
06	Stack/Vent Diameter	Meter	---	---
07	Stack/Vent Temperature	°C	75	73
08	Ambient Temperature	°C	30	29
09	Average Velocity of Flue Gases	m/Sec.	7.5	7.6
10	Isokinetic flow rate for P.M. Sampling	LPM	22	20
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150	150
13	Measured Concentration of PM	mg/Nm <sup>3</sup>	33	38
14	Permissible limits for SO <sub>2</sub>	ppm	100	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 29/12/2022

  
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Ref. No. : 210/06/2023-24

Date:01/07/2023

### WORK ZONE NOISE LEVEL MEASUREMENT

Name of Company : M/s. Adani Cement Industries Limited,

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of

Village: Dahej in Dahej Industrial Estate,

Tal. : Vagra,Dist. : Bharuch.

Sample Collection Date :23/06/2023

Sr. No.	Location of Sampling	Results in dB(A)	
		Day Time 06:30am to 10:30pm	Night Time 10:30pm to 06:30am
Permissible Limits for 08:00 Hrs.		90.0 dB(A)	
01.	Main Compressor Room	80.4	67.6
02.	Cement Mill	78.2	66.3
03.	Fly Ash Compressor Room	74.3	64.8

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

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

Calibration is done on : 04/03/2023

  
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Ref. No. : 211/06/2023-24

Date:01/07/2023

## AMBIENT NOISE LEVEL MEASUREMENT

Name of Company : M/s. Adani Cement Industries Limited,

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Sample Collection date: 23/06/2023

Sr. No.	Location of Sampling	Results in dB(A)	Results in dB(A)
		(Day Time) 6:30am to 10:30pm	(Night Time) 10:30pm to 6:30am
<b>Permissible Limits</b>		<b>75.0</b>	<b>70.0</b>
01.	Security Main gate (East)	64.3	52.3
02.	Packing plant (South)	65.4	57.1
03.	Cement mill (North)	67.2	54.4
04.	Clinker Silo (West)	64.3	49.8

### 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

Instruments used : Sound level meter, Model : SL 4030 (Lutron)  
Range : A - 30 to 80 dB, B-50 to 100 dB,C-80 to 130 dB.  
Calibration is done on : 04/03/2023

  
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Ref. No.: 212/06/2023-24

Date: 01/07/2023

### REPORT OF FUGITIVE EMISSION ANALYSIS

Name of company : M/s. Adani Cement Industries Limited,  
Plot No. 135P to 141P, 144P, 145P, 151P to 155P,  
162P, 174P to 176P, 178P, 179P, 187P to 191P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 5182\_23/46

Sr. No.	Particulars	Unit	Location No. 1	Location No. 2	Location No. 3	Location No. 4	Location No. 5
01.	Location of Sampling	---	Clinker shed	Gypsum shed	Packing plant	Truck loading/Parking area	Cement mill
02.	Date of sampling	---	23/06/2023	23/06/2023	23/06/2023	23/06/2023	23/06/2023
03.	Time of sampling	Hr	10:10	10:30	11:05	11:30	11:40
04.	Duration of Sampling	Min.	480	480	480	480	480
05.	Dominant Wind Direction (From)	---	SW	SW	SW	SW	SW
06.	Average Wind Speed	Km/Hr	2 to 18	1 to 18	2 to 16	2 to 14	3 to 16
07.	Flow rate during sampling	m <sup>3</sup> /hr	1.0	1.0	1.0	1.0	1.0
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2	0.2	0.2
09.	Permissible Limits of SPM *	µg/m <sup>3</sup>	5000	5000	5000	5000	5000
10.	Measured Concentration of SPM	µg/m <sup>3</sup>	2120	1628	1823	1954	1812

Instrument used : Envirotech make (P-V/S), Model No. AFM-4006L, Gasout Sampling Kit,  
Calibration done on: 26/12/2022

\* Permissible limits of fugitive emission based on CPCB Guidelines.

  
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Ref. No. :213/06/2023-24

Date:01/07/2023

### REPORT OF EFFLUENT ANALYSIS

**Name of company : M/s. Adani Cement Industries Limited,**

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Source of Sample Collection : Sewage Treatment Plant

Date of Sampling :23/06/2023

Sr. No.	Parameters	Unit	Permissible Limit*	STP O/L
01.	pH	mg/l	6.5-9	7.08
01.	Total Suspended Solids	mg/l	<100	17
02.	B.O.D. (3 day's at 27 °C)	mg/l	<30	9.8
03.	Fecal Coliform	MPN	<1000MPN/100ml	0.5

\* Permissible limit is only applicable to STP O/L (Treated Water)

  
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Ref. No. : 21406/2023-24

Date: 01/07/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JUNE 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dehej in Dehej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

S. No.	Particulars	Unit	Nr. Main Security Main gate (East)	
01.	No. of Week	--	4	
02.	Date & Time Starting of Monitoring	--	26/06/2023 09:05	27/06/2023 09:15
03.	Date & Time - Ending of Monitoring	--	27/06/2023 09:05	28/06/2023 09:15
04.	Duration of Sampling	Mts	1440	1440
05.	Dominant Wind Direction (From)	--	SE	SE
06.	Wind Speed Velocity	Km/Hr.	2 to 18	3 to 16
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /hr.	1.0	1.0
08.	Average Flow Rate For PM10	m <sup>3</sup> /hr.	1.16	1.14
09.	Average Flow Rate for Gaseous	LPM	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	28.6	25.4
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	63.7	66.5
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	19.8	18.4
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	24.5	22.4

Instrument Used: Ecotech make (1) ROS, APM - 217SL, (2) Gaseous Pollutants Sampler- AAS 127, (3) Gaseous Pollutants Sampler- AAS 127  
Calibration Done on : 26/12/2022

  
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Ref. No. : 215/05/2023-24

Date: 01/07/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JUNE 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

S. No.	Particulars	Unit	Packing Plant (South)	
01.	No. of Week	--	4	
02.	Date & Time Starting of Monitoring	--	26/06/2023 09:15	27/06/2023 09:25
03.	Date & Time - Ending of Monitoring	--	27/06/2023 09:15	28/06/2023 09:25
04.	Duration of Sampling	Min.	1440	1440
05.	Dominant Wind Direction (From)	--	SE	SE
06.	Wind Speed Velocity	Km/hr.	2 to 16	3 to 16
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /hr.	1.0	1.0
08.	Average Flow Rate For PM10	m <sup>3</sup> /Min.	1.16	1.12
09.	Average Flow Rate for Gaseous	LPM	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	26.3	24.6
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	46.4	45.2
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	15.3	11.8
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	21.5	19.2

Instrument Used: Ecochek make (1) RDS, APM - 2179L, (2) Gaseous Pollutants Sampler - AAS-106, (3) Ecochek make - AAS 127

Calibration Done on : 26/12/2022

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Ref. No. 216/06/2023-24

Date: 01/07/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JUNE 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

S. No.	Particulars	Unit	Cement mill (North)	
01.	No. of Week	--	4	
02.	Date & Time Starting of Monitoring	--	26/06/2023 09:25	27/06/2023 09:35
03.	Date & Time - Ending of Monitoring	--	27/06/2023 09:25	28/06/2023 09:35
04.	Duration of Sampling	Min	1440	1440
05.	Dominant Wind Direction (From)	--	SE	SE
06.	Wind Speed Velocity	Km/Hr.	2 to 18	3 to 16
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /Hr.	1.0	1.0
08.	Average Flow Rate For PM10	m <sup>3</sup> /Min.	1.18	1.14
09.	Average Flow Rate for Gaseous	LPM	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	33.6	35.7
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	46.4	44.3
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	12.5	15.7
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>		22.3

Instrument Used: Ecotech make (1) RDS, APM - 217BL, (2) Gaseous Pollutants Sampler- AAS-106, (3) Ecotech PM2.5 Sampler, (4) Ecotech PM10 Sampler, (5) Ecotech SO<sub>2</sub> Sampler, (6) Ecotech NO<sub>2</sub> Sampler  
Calibration Done on : 26/10/2022

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Ref. No. : 217/06/2023-24

Date: 01/07/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JUNE 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

S. No.	Particulars	Unit	Clinker Silo (West)	
01.	No. of Week	—	4	
02.	Date & Time Starting of Monitoring	—	26/06/2023 09:35	27/06/2023 09:45
03.	Date & Time - Ending of Monitoring	—	27/06/2023 09:35	28/06/2023 09:45
04.	Duration of Sampling	Min.	1440	1440
05.	Dominant Wind Direction (From)	—	SE	SE
06.	Wind Speed Velocity	Km/hr.	2 to 18	3 to 16
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /hr.	1.0	1.0
08.	Average Flow Rate For PM10	m <sup>3</sup> /Min.	1.16	1.18
09.	Average Flow Rate for Gaseous	LPM	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	30.6	29.8
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	47.5	45.2
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	19.3	17.2
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	15.2	13.4

Instrument Used: EcoTech make (1) RDS, APM - 217BL, (2) Gaseous Pollutants Sampler- AAS-100, (3) Gaseous PM2.5 Sampler- AAS 127  
Calibration Done on : 26/12/2022

  
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Ref. No: 218/06/2023-24

Date:01/07/2023

### REPORT OF DRINKING WATER SAMPLES

**Name of company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Date of Sampling :23/06/2023

Sr. No.	Parameters	Unit	Acceptable Limits(*)	Admin Office
01.	pH	pH Units	6.5 to 8.5	7.15
02.	Colour	Hazen	5	Colourless
03.	Turbidity	NTU	1	0.0
04.	Total Dissolved Solids	mg/l	500	129
05.	Total Suspended Solids	mg/l	---	9
06.	Total Solids	mg/l	---	138
07.	Chlorides	mg/l	250	36.5
08.	Sulphates	mg/l	200	5.6
09.	Total Hardness (As CaCO <sub>3</sub> )	mg/l	200	40.7
10.	Calcium (as Ca)	mg/l	75	17.2
11.	Magnesium (as Mg)	mg/l	30	1.8
12.	Total Alkalinity	mg/l	200	20
13.	Nitrates	mg/l	45	4.6
14.	Flouride	mg/l	1.0	0.04
15.	E-Coli	MPN/100ml	Absent	Absent

(\*) Acceptable Limit as per IS 10500 : 2018, Drinking Water Specification

  
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Ref. No. : 101/07/2023-24

Date: 24/07/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company :** M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

**Test Method** : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 1
01	Date of Sampling	---	14/07/2023
02	Time of sampling	Hr.	10:20
03	Stack Attached to	---	Cement Mill
04	Air Pollution Control Measures	---	Bag Filter
05	Stack Height	Meter	70
06	Stack Diameter	Meter	---
07	Stack Temperature	°C	75
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.6
10	Isokinetic flow rate for P.M. Sampling	LPM	21
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	43
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS-100  
Calibration done on : 26/12/2022



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Ref. No. : 102/07/2023-24

Date:24/07/2023

### STACK EMISSION MONITORING ANALYSIS

**Name of Company :** M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 2
01	Date of Sampling	---	14/07/2023
02	Time of sampling	Hr.	11:30
03	Stack Attached to	---	Packing Plant (1 No.)
04	Air Pollution Control Measures	---	Bag Filter
05	Stack Height	Meter	50
06	Stack Diameter	Meter	---
07	Stack Temperature	°C	77
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	23
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	36
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100

Calibration done on : 25/12/2022

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Ref. No. : 103/07/2023-24

Date:24/07/2023

### STACK EMISSION MONITORING ANALYSIS

Name of Company : M/s. Adani Cement Industries Limited,

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 3
01	Date of Sampling	---	14/07/2023
02	Time of sampling	Hr.	12:00
03	Stack/vent Attached to	---	Conveyor belt L11BC1 Vent
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	70
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.2
10	Isokinetic flow rate for P.M. Sampling	LPM	21
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	34
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100

Calibration done on : 26/12/2022

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## Environment Auditing & Consultancy Service

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Ref. No. : 1108/07/2023-24

Date:24/07/2023

### STACK EMISSION MONITORING ANALYSIS

Name of Company : M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 8
01	Date of Sampling	---	14/07/2023
02	Time of sampling	Hr.	14:35
03	Stack/Vent Attached to	---	Conveyor belt K11BC2
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/Vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	72
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.2
10	Isokinetic flow rate for P.M. Sampling	LPM	21
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	34
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100

Calibration done on : 26/12/2022

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Ref. No. : 1109/07/2023-24

Date: 24/07/2023

### STACK EMISSION MONITORING ANALYSIS

Name of Company : M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	CS-01 Vent	CS-02 Vent
01	Date of Sampling	---	14/07/2023	14/07/2023
02	Time of sampling	Hr.	09:20	09:45
03	Stack/Vent Attached to	---	Cement Silo -1	Cement Silo -2
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack/Vent Height	Meter	30	30
06	Stack/Vent Diameter	Meter	---	---
07	Stack/Vent Temperature	°C	72	70
08	Ambient Temperature	°C	30	29
09	Average Velocity of Flue Gases	m/Sec.	7.2	7.6
10	Isokinetic flow rate for P.M. Sampling	LPM	22	20
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	32	38
14	Permissible limits for SO <sub>2</sub>	ppm	100	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100

Calibration done on : 26/12/2022

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Ref. No. :109/07/2023-24

Date:24/07/2023

## REPORT OF EFFLUENT ANALYSIS

**Name of company : M/s. Adani Cement Industries Limited,**

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,

162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of

Village: Dahej in Dahej Industrial Estate,

Tal. : Vagra,Dist. : Bharuch.

Source of Sample Collection : Sewage Treatment Plant

Date of Sampling :14/07/2023

Sr. No.	Parameters	Unit	Permissible Limit*	STP O/L
01.	pH	mg/l	6.5-9	7.11
01.	Total Suspended Solids	mg/l	<100	18
02.	B.O.D. (3 day's at 27 °C)	mg/l	<30	9.8
03.	Fecal Coliform	MPN	<1000MPN/100ml	0.5

\* Permissible limit is only applicable to STP O/L (Treated Water)

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Ref. No. : 106/07/2023-24

Date:24/07/2023

### WORK ZONE NOISE LEVEL MEASUREMENT

Name of Company : M/s. Adani Cement Industries Limited,

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,

162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of

Village: Dahej in Dahej Industrial Estate,

Tal. : Vagra,Dist. : Bharuch.

Sample Collection Date :14/07/2023

Sr. No.	Location of Sampling	Results in dB(A)	
		Day Time 06:30am to 10:30pm	Night Time 10:30pm to 06:30am
Permissible Limits for 08:00 Hrs.		90.0 dB(A)	
01.	Main Compressor Room	80.1	69.6
02.	Cement Mill	78.6	68.3
03.	Fly Ash Compressor Room	76.2	66.7

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

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

Calibration is done on : 04/03/2023

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Ref. No. : 107/07/2023-24

Date: 24/07/2023

## AMBIENT NOISE LEVEL MEASUREMENT

**Name of Company : M/s. Adani Cement Industries Limited,**

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Sample Collection date: 14/07/2023

Sr. No.	Location of Sampling	Results in dB(A)	Results in dB(A)
		(Day Time) 6:30am to 10:30pm	(Night Time) 10:30pm to 6:30am
<b>Permissible Limits</b>		<b>75.0</b>	<b>70.0</b>
01.	Security Main gate (East)	66.1	54.2
02.	Packing plant (South)	67.4	59.3
03.	Cement mill (North)	69.2	56.2
04.	Clinker Silo (West)	66.3	51.7

### 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

Instruments used : Sound level meter, Model : SL 4030 (Lutron)  
Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.  
Calibration is done on : 04/03/2023

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Ref. No.: 10807/2023-24

Date: 24/07/2023

### REPORT OF FUGITIVE EMISSION ANALYSIS

Name of company : **M/s. Adani Cement Industries Limited,**

Plot No. 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 5182\_23/4/6

Sr. No.	Particulars	Unit	Location No. 1	Location No. 2	Location No. 3	Location No. 4	Location No. 5
01.	Location of Sampling	—	Clinker shed	Gypsum shed	Packing plant	Truck loading/Parking area	Cement mill
02.	Date of sampling	—	14/07/2023	14/07/2023	14/07/2023	14/07/2023	14/07/2023
03.	Time of sampling	Hr	10:30	10:45	10:55	11:00	11:15
04.	Duration of Sampling	Min.	480	480	480	480	480
05.	Dominant Wind Direction (From)	—	SW	SW	SW	SW	SW
06.	Average Wind Speed	Km/Hr	1 to 16	1 to 16	2 to 14	3 to 18	1 to 17
07.	Flow rate during sampling	m <sup>3</sup> /hr	1.0	1.0	1.0	1.0	1.0
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2	0.2	0.2
09.	Permissible Limits of SPM *	µg/m <sup>3</sup>	5000	5000	5000	5000	5000
10.	Measured Concentration of SPM	µg/m <sup>3</sup>	2110	1625	1620	2017	1956

Instrument used : Envirotech make (HVS), Model No. APM-4300L, Gaseous Sampling Pk,  
Calibration done on : 26/12/2022

\* Permissible limits of fugitive emission based on CPCB Guidelines.

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Ref. No. : 110072023-24

Date: 24/07/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JULY 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136P to 141P, 144P, 145P, 151P to 155P,  
162P, 174P to 176P, 178P, 179P, 187P to 191P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bhanuch.

S. No.	Particulars	Unit	Nr. Main Security Main gate (East)							
			1	2	3	4	5	6	7	8
01.	No. of Week	—								
02.	Date & Time Starting of Monitoring	—	03/07/2023 09:45	04/07/2023 10:00	10/07/2023 10:00	11/07/2023 10:15	17/07/2023 09:30	18/07/2023 10:15	24/07/2023 09:45	25/07/2023 10:00
03.	Date & Time - Ending of Monitoring	—	04/07/2023 09:45	05/07/2023 10:00	11/07/2023 10:00	12/07/2023 10:15	18/07/2023 09:30	19/07/2023 10:15	25/07/2023 09:45	26/07/2023 10:00
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	NE	NE	NW	NE	NE	NW	SE	SE
06.	Wind Speed Velocity	Km/Hr	1 to 15	2 to 20	1 to 15	2 to 16	1 to 14	2 to 18	3 to 23	1 to 14
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /Hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m <sup>3</sup> /Min	1.10	1.20	1.15	1.22	1.18	1.21	1.14	1.12
09.	Average Flow Rate for Gaseous	L/Hr	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	36.4	34.2	35.4	38.4	36.4	39.4	33.4	32.1
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	66.1	67.5	62.4	60.5	62.4	68.7	63.3	65.8
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	69	80	80	80	80	80	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	15.4	16.7	18.4	19.4	18.4	19.4	17.4	19.1
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	23.4	21.2	20.0	19.8	23.6	21.7	19.3	21.4

Instrument Used: EcoTech make (1) RCS, APW - 217BL, (2) Gaseous Pollutants Sampler - AAS-109, (3) EcoTech PM2.5 Sampler - AAS 127  
Calibration Done on : 26/12/2022

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Ref. No. : 11167/2023-24

Date: 24/07/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JULY 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136P to 141P, 144P, 145P, 151P to 155P,  
162P, 174P to 176P, 178P, 179P, 187P to 191P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

S. No.	Particulars	Unit	Packing Plant (South)							
			1	2	3	4	5	6	7	8
01.	No. of Week	--								
02.	Date & Time Starting of Monitoring	--	03/07/2023 10:00	04/07/2023 10:15	10/07/2023 10:15	11/07/2023 10:30	17/07/2023 10:00	18/07/2023 10:15	24/07/2023 10:00	25/07/2023 10:15
03.	Date & Time - Ending of Monitoring	--	04/07/2023 10:00	05/07/2023 10:15	11/07/2023 10:15	12/07/2023 10:30	18/07/2023 10:00	19/07/2023 10:15	25/07/2023 10:00	26/07/2023 10:15
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	--	NE	NE	NW	NE	NE	NW	SE	SE
06.	Wind Speed Velocity	Km/Hr	1 to 15	2 to 20	1 to 16	2 to 16	1 to 14	2 to 18	3 to 23	1 to 14
07.	Average Flow Rate For PM2.5	m3/Hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m3/Min	1.10	1.20	1.15	1.22	1.18	1.21	1.14	1.12
09.	Average Flow Rate for Gaseous	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	32.1	39.4	35.2	38.6	40.1	33.8	36.9	37.6
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	60.2	66.5	63.4	68.4	63.1	58.4	56.4	62.2
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	17.1	16.4	15.6	19.4	14.8	16.6	16.3	17.8
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	20.6	22.1	21.9	23.4	20.4	23.4	24.1	21.5

Instrument Used: Ecotech make (1) FDS, AFM - 2179L, (2) Gaseous Pollutants Sampler- AAS-106, (3) Ecotech PM2.5 Sampler- AAS-107

Calibration Done on : 26/12/2022

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Ref. No. :112/07/2023-24

Date: 24/07/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JULY 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

S. No.	Particulars	Unit	Cement mill (North)							
			1	2	3	4	5	6	7	8
01.	No. of Week	--								
02.	Date & Time Starting of Monitoring	--	03/07/2023 10:15	04/07/2023 10:30	10/07/2023 10:30	11/07/2023 10:45	17/07/2023 10:15	18/07/2023 10:30	24/07/2023 10:15	25/07/2023 10:30
03.	Date & Time - Ending of Monitoring	--	04/07/2023 10:15	05/07/2023 10:30	11/07/2023 10:30	12/07/2023 10:45	18/07/2023 10:15	19/07/2023 10:30	25/07/2023 10:15	26/07/2023 10:30
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	--	NE	NE	NW	NE	NE	NW	SE	SE
06.	Wind Speed Velocity	Km/Hr.	1 to 15	2 to 20	1 to 16	2 to 16	1 to 14	2 to 18	3 to 23	1 to 14
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m <sup>3</sup> /Min.	1.10	1.20	1.15	1.22	1.18	1.21	1.14	1.12
09.	Average Flow Rate for Gaseous	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	37.3	36.2	38.1	33.4	39.8	36.7	33.3	31.2
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	62.2	58.6	59.1	60.4	58.3	53.8	52.3	50.0
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	15.4	17.6	20.4	16.5	18.3	17.1	19.2	15.6
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	22.3	23.6	21.5	24.1	21.3	23.4	21.4	19.7

Instrument Used: EcoTech make (1) RDS, APM - 2170L, (2) Gaseous Pollutants Sampler- AAS-109, (3)EcoTech PM2.5 Sampler- AAS 127  
Calibration Done on : 26/12/2022

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Ref. No. : 113/07/2023-24

Date: 24/07/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JULY 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136P to 141P, 144P, 145P, 151P to 155P,  
162P, 174P to 176P, 178P, 179P, 187P to 191P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

S. No.	Particulars	Unit	Clinker Silo (West)							
			1	2	3	4	5	6	7	8
01.	No. of Week	--								
02.	Date & Time Starting of Monitoring	--	03/07/2023 10:30	04/07/2023 10:45	10/07/2023 10:45	11/07/2023 11:00	17/07/2023 10:30	18/07/2023 10:45	24/07/2023 10:30	25/07/2023 10:45
03.	Date & Time - Ending of Monitoring	--	04/07/2023 10:30	05/07/2023 10:45	11/07/2023 10:45	12/07/2023 11:00	18/07/2023 10:30	19/07/2023 10:45	25/07/2023 10:30	26/07/2023 10:45
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	--	NE	NE	NW	NE	NE	NW	SE	SE
06.	Wind Speed Velocity	Km/Hr.	1 to 15	2 to 20	1 to 16	2 to 16	1 to 14	2 to 18	3 to 23	1 to 14
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /Hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m <sup>3</sup> /Min.	1.10	1.20	1.15	1.22	1.18	1.21	1.14	1.12
09.	Average Flow Rate for Gaseous	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	35.1	38.4	33.4	39.4	34.1	38.6	31.5	39.4
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	55.1	56.9	57.4	54.3	52.1	50.3	48.0	56.4
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	17.1	18.6	19.4	15.4	20.3	19.7	14.6	19.1
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	22.1	20.1	22.1	18.4	21.1	19.4	16.7	14.5

Instrument Used: Ecotech make (1) RDS, AFM - 217BL, (2) Gaseous Pollutants Sampler- AAS-109, (3) Ecotech PM2.5 Sampler- AAS 127

Calibration Done on : 26/12/2022

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Ref. No: 118/07/2023-24

Date:24/07/2023

### REPORT OF DRINKING WATER SAMPLES

**Name of company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Date of Sampling :14/07/2023

Sr. No.	Parameters	Unit	Acceptable Limits(*)	Admin Office
01.	pH	pH Units	6.5 to 8.5	7.21
02.	Colour	Hazen	5	Colourless
03.	Turbidity	NTU	1	0.0
04.	Total Dissolved Solids	mg/l	500	125
05.	Total Suspended Solids	mg/l	—	7
06.	Total Solids	mg/l	—	132
07.	Chlorides	mg/l	250	36.4
08.	Sulphates	mg/l	200	5.3
09.	Total Hardness (As CaCO <sub>3</sub> )	mg/l	200	40.2
10.	Calcium (as Ca)	mg/l	75	15.3
11.	Magnesium (as Mg)	mg/l	30	1.5
12.	Total Alkalinity	mg/l	200	20
13.	Nitrates	mg/l	45	4.3
14.	Flouride	mg/l	1.0	0.04
15.	E-Coli	MPN/100ml	Absent	Absent

(\*) Acceptable Limit as per IS 10500 : 2018, Drinking Water Specification

  
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Ref. No. : 201/08/2023-24

Date: 18/08/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No. 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 1
01	Date of Sampling	---	10/08/2023
02	Time of sampling	Hr.	09:10
03	Stack Attached to	---	Cement Mill
04	Air Pollution Control Measures	---	Bag Filter
05	Stack Height	Meter	70
06	Stack Diameter	Meter	---
07	Stack Temperature	°C	72
08	Ambient Temperature	°C	28
09	Average Velocity of Flue Gases	m/Sec.	7.6
10	Isokinetic flow rate for P.M. Sampling	LPM	21
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	48
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm <sub>1-4</sub>	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

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Ref. No. : 202/08/2023-24

Date: 18/08/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company :** M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 2
01	Date of Sampling	---	10/08/2023
02	Time of sampling	Hr.	09:30
03	Stack Attached to	---	Packing Plant (1 No.)
04	Air Pollution Control Measures	---	Bag Filter
05	Stack Height	Meter	50
06	Stack Diameter	Meter	---
07	Stack Temperature	°C	78
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.6
10	Isokinetic flow rate for P.M. Sampling	LPM	22
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	38
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022



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Ref. No. : 203/08/2023-24

Date: 18/08/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No. 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 3
01	Date of Sampling	---	10/08/2023
02	Time of sampling	Hr.	10:00
03	Stack/vent Attached to	---	Conveyor belt L11BC1 Vent
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	72
08	Ambient Temperature	°C	29
09	Average Velocity of Flue Gases	m/Sec.	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	23
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	36
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

  
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Ref. No. : 204/08/2023-24

Date: 18/08/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 4
01	Date of Sampling	---	10/08/2023
02	Time of sampling	Hr.	10:40
03	Stack/Vent Attached to	---	Conveyor belt 531BC1 transfer point Vent
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/ vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	74
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	22
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	36
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

  
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Ref. No. : 205/08/2023-24

Date:18/08/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 5
01	Date of Sampling	---	10/08/2023
02	Time of sampling	Hr.	11:00
03	Stack/vent Attached to	---	Conveyor belt K11BC1 transfer point vent
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	71
08	Ambient Temperature	°C	29
09	Average Velocity of Flue Gases	m/Sec.	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	20
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	32
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

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Ref. No. : 206/08/2023-24

Date: 18/08/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company :** M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 6
01	Date of Sampling	---	10/08/2023
02	Time of sampling	Hr.	11:35
03	Stack/vent Attached to	---	Conveyor belt 491BC1 transfer point
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/Vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	71
08	Ambient Temperature	°C	29
09	Average Velocity of Flue Gases	m/Sec.	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	22
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	36
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

  
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Ref. No. : 207/08/2023-24

Date: 18/08/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**

Plot No. 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 7
01	Date of Sampling	---	10/08/2023
02	Time of sampling	Hr.	12:10
03	Stack/Vent Attached to	---	Conveyor belt 491BC2 transfer point
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/vent Diameter	Meter	---
07	Stack/ Vent Temperature	°C	74
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	20
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	36
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

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Ref. No. : 208/08/2023-24

Date: 18/08/2023

### STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 8
01	Date of Sampling	---	10/08/2023
02	Time of sampling	Hr.	12:45
03	Stack/Vent Attached to	---	Conveyor belt K11BC2
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/Vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	74
08	Ambient Temperature	°C	29
09	Average Velocity of Flue Gases	m/Sec.	7.5
10	Isokinetic flow rate for P.M. Sampling	LPM	22
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	33
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

  
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Ref. No. : 209/08/2023-24

Date: 18/08/2023

### STACK EMISSION MONITORING ANALYSIS

Name of Company : M/s. Adani Cement Industries Limited,  
Plot No. 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	CS-01 Vent	CS-02 Vent
01	Date of Sampling	---	10/08/2023	10/08/2023
02	Time of sampling	Hr	13:15	13:40
03	Stack/Vent Attached to	---	Cement Silo -1	Cement Silo -2
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack/Vent Height	Meter	30	30
06	Stack/Vent Diameter	Meter	---	---
07	Stack/Vent Temperature	°C	74	72
08	Ambient Temperature	°C	29	28
09	Average Velocity of Flue Gases	m/Sec.	7.4	7.8
10	Isokinetic flow rate for P.M. Sampling	LPM	23	21
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150	150
13	Measured Concentration of PM	mg/Nm <sup>3</sup>	34	39
14	Permissible limits for SO <sub>2</sub>	ppm	100	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100

Calibration done on : 26/12/2022

  
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Ref. No. : 210/08/2023-24

Date: 18/08/2023

## WORK ZONE NOISE LEVEL MEASUREMENT

Name of Company : M/s. Adani Cement Industries Limited,

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of

Village: Dahej in Dahej Industrial Estate,

Tal. : Vagra, Dist. : Bharuch.

Sample Collection Date : 10/08/2023

Sr. No.	Location of Sampling	Results in dB(A)	
		Day Time 06:30am to 10:30pm	Night Time 10:30pm to 06:30am
Permissible Limits for 08:00 Hrs.		90.0 dB(A)	
01.	Main Compressor Room	81.3	68.5
02.	Cement Mill	79.8	67.2
03.	Fly Ash Compressor Room	75.4	65.7

Instruments used : Sound level meter, Model : SL 4030 (Lutron)  
Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.  
Calibration is done on : 04/03/2023

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Ref. No. : 211/08/2023-24

Date:18/08/2023

## AMBIENT NOISE LEVEL MEASUREMENT

**Name of Company : M/s. Adani Cement Industries Limited,**

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Sample Collection date: 10/08/2023

Sr. No.	Location of Sampling	Results in dB(A)	Results in dB(A)
		(Day Time) 6:30am to 10:30pm	(Night Time) 10:30pm to 6:30am
<b>Permissible Limits</b>		<b>75.0</b>	<b>70.0</b>
01.	Security Main gate (East)	65.2	53.4
02.	Packing plant (South)	66.5	58.2
03.	Cement mill (North)	68.3	55.3
04.	Clinker Silo (West)	65.4	50.6

### 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

Instruments used : Sound level meter, Model : SL 4030 (Lutron)  
Range : A - 30 to 80 dB, B-50 to 100 dB,C-80 to 130 dB.  
Calibration is done on : 04/03/2023



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Ref. No.: 212/08/2023-24

Date: 18/08/2023

### REPORT OF FUGITIVE EMISSION ANALYSIS

Name of company : **M/s. Adani Cement Industries Limited,**

Plot No. 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 5182\_23/4/6

Sr. No.	Particulars	Unit	Location No. 1	Location No. 2	Location No. 3	Location No. 4	Location No. 5
01.	Location of Sampling	---	Clinker shed	Gypsum shed	Packing plant	Truck loading/Parking area	Cement mill
02.	Date of sampling	---	10/08/2023	10/08/2023	10/08/2023	10/08/2023	10/08/2023
03.	Time of sampling	Hr	10:05	10:20	11:00	11:20	11:35
04.	Duration of Sampling	Min.	480	480	480	480	480
05.	Dominant Wind Direction (From)	---	SW	SW	SW	SW	SW
06.	Average Wind Speed	Km/Hr	2 to 16	3 to 18	1 to 15	2 to 17	3 to 14
07.	Flow rate during sampling	m <sup>3</sup> /hr	1.0	1.0	1.0	1.0	1.0
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2	0.2	0.2
09.	Permissible Limits of SPM *	µg/m <sup>3</sup>	5000	5000	5000	5000	5000
10.	Measured Concentration of SPM	µg/m <sup>3</sup>	2115	1622	1834	1958	1817

Instrument used : Envirotech make (HVS), Model No. APM-4300L, Gaseous Sampling Kit,  
Calibration done on : 29/12/2022

\* Permissible limits of fugitive emission based on CPCB Guidelines.

  
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Ref. No. :213/08/2023-24

Date:18/08/2023

## REPORT OF EFFLUENT ANALYSIS

**Name of company : M/s. Adani Cement Industries Limited,**

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Source of Sample Collection : Sewage Treatment Plant

Date of Sampling :10/08/2023

Sr. No.	Parameters	Unit	Permissible Limit*	STP O/L
01.	pH	mg/l	6.5-9	7.18
01.	Total Suspended Solids	mg/l	<100	16
02.	B.O.D. (3 day's at 27 °C)	mg/l	<30	9.4
03.	Fecal Coliform	MPN	<1000MPN/100ml	0.6

\* Permissible limit is only applicable to STP O/L (Treated Water)

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Ref. No. : 21408/2023-24

Date: 18/08/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : AUGUST 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No. 136P to 141P, 144P, 145P, 151P to 155P,  
152P, 174P to 176P, 178P, 179P, 187P to 191P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bhavnagar.

S. No.	Particulars	Unit	Nr. Main Security Main gate (East)									
			1	2	3	4	5					
01.	No. of Week	—										
02.	Date & Time Starting of Monitoring	—	02/08/2023 09:30	03/08/2023 09:30	09/08/2023 09:45	10/08/2023 10:00	16/08/2023 09:15	17/08/2023 09:30	23/08/2023 09:05	24/08/2023 09:15	28/08/2023 09:20	29/08/2023 09:30
03.	Date & Time - Ending of Monitoring	—	03/08/2023 09:30	04/08/2023 09:30	10/08/2023 09:45	11/08/2023 10:00	17/08/2023 09:15	18/08/2023 09:30	24/08/2023 09:05	25/08/2023 09:15	29/08/2023 09:20	30/08/2023 09:30
04.	Duration of Sampling	Mn	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	NE	NE	NW	NE	NE	NW	SE	SE	SE	SE
06.	Wind Speed Velocity	Km/hr	2 to 14	4 to 16	3 to 26	3 to 23	2 to 15	2 to 17	4 to 21	1 to 12	2 to 16	1 to 18
07.	Average Flow Rate For PM2.5	m3/hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m3/Mn	1.15	1.20	1.15	1.20	1.20	1.15	1.10	1.20	1.16	1.12
09.	Average Flow Rate for Gases	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5*	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	26.7	25.7	24.3	25.8	24.6	25.9	32.5	31.50	29.2	26.8
12.	Permissible Limits of PM10*	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100.00	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	53.1	55.6	48.9	46.7	52.1	53.7	62.4	64.70	65.8	67.2
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80.00	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	12.5	16.4	13.4	15.7	14.7	15.8	16.7	17.50	20.7	18.6
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80.00	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	18.6	17.3	15.8	13.4	12.6	13.7	18.4	20.8	25.8	23.2

Instrument Used : Swedish make (1) RCS, AFM- 2176L, (2) Gaseous Pollutants Sampler- AA3-106, CE/Inotech- PM2.5 Sampler- AA3 117  
Collection Date on : 28/12/2022

  
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Ref. No. : 11507/2023-24

Date: 18/08/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : AUGUST 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136P to 141P, 144P, 145P, 151P to 155P,  
162P, 174P to 176P, 178P, 179P, 187P to 191P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

S. No.	Particulars	Unit	Packing Plant (South)									
			1		2		3		4		5	
01.	No. of Week	--										
02.	Date & Time Starting of Monitoring	--	02/08/2023 09:45	03/08/2023 10:00	09/08/2023 10:00	10/08/2023 10:15	16/08/2023 09:30	17/08/2023 09:45	23/08/2023 09:15	24/08/2023 3 09:25	28/08/2023 09:30	29/08/2023 09:40
03.	Date & Time - Ending of Monitoring	--	03/08/2023 09:45	04/08/2023 10:00	10/08/2023 10:00	11/08/2023 10:15	17/08/2023 09:30	18/08/2023 09:45	24/08/2023 09:15	25/08/2023 3 09:25	29/08/2023 09:30	30/08/2023 09:40
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	--	NE	NE	NW	NE	NE	NW	SE	SE	SE	SE
06.	Wind Speed Velocity	Km/h	2 to 14	4 to 16	3 to 26	3 to 23	2 to 15	2 to 17	3 to 18	2 to 12	2 to 16	1 to 18
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m <sup>3</sup> /hr	1.15	1.20	1.10	1.2	1.25	1.15	1.12	1.10	1.18	1.14
09.	Average Flow Rate for Gas/odour	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	24.5	28.7	24.9	31.4	25.6	27.8	28.9	26.4	28.2	25.7
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	52.4	51.6	53.7	49.7	52.1	49.8	48.5	50.2	47.3	46.8
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	13.6	12.8	15.7	16.9	17.3	14.5	15.8	16.7	14.8	12.5
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	20.1	21.3	24.6	21.3	19.7	18.7	20.4	19.3	20.8	18.6

Instrument Used: Ecotech make (1) RDS, APM - 217BL, (2) General Pollutants Sampler- AAS-100, (3) Ecotech PM2.5 Sampler- AAS 127  
Calibration Done on : 25/12/2022

  
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Ref. No : 216/08/2023-24

Date: 18/08/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : AUGUST 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No. 136P to 141P, 146P, 145P, 151P to 155P,  
162P, 174P to 176P, 178P, 179P, 187P to 191P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

S. No.	Particulars	Unit	Cement mill (North)																		
			1	2	3	4	5	6	7	8	9	10									
01.	No. of Week	—																			
02.	Date & Time Starting of Monitoring	—	02/08/2023 10:00	03/08/2023 10:15	09/08/2023 10:15	10/08/2023 10:30	16/08/2023 09:45	17/08/2023 10:00	23/08/2023 09:25	24/08/2023 09:35	28/08/2023 09:40	29/08/2023 09:50									
03.	Date & Time - Ending of Monitoring	—	03/08/2023 10:00	04/08/2023 10:15	10/08/2023 10:15	11/08/2023 10:30	17/08/2023 09:45	18/08/2023 10:00	24/08/2023 09:25	25/08/2023 09:35	29/08/2023 09:40	30/08/2023 09:50									
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440									
05.	Dominant Wind Direction (From)	—	NE	NE	NW	NE	NE	NW	SE	SE	SE	SE									
06.	Wind Speed Velocity	Km/h.	2 to 14	4 to 16	3 to 26	3 to 23	2 to 15	2 to 17	1 to 18	2 to 14	2 to 16	1 to 18									
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0									
08.	Average Flow Rate For PM10	m <sup>3</sup> /hr.	1.10	1.25	1.15	1.1	1.25	1.15	1.10	1.14	1.16	1.14									
09.	Average Flow Rate for Gaseous	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2									
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60	60	60									
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	31.4	29.8	26.4	29.7	31.2	33.4	32.4	30.8	34.5	36.8									
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100	100	100									
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	53.1	52.4	48.6	55.6	54.1	55.9	50.4	49.8	47.5	45.2									
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80	80	80									
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	17.2	16.4	13.2	14.7	16.4	19.6	18.5	14.3	13.8	14.6									
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80	80	80									
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	16.2	17.8	17.8	19.7	15.6	14.9	21.4	18.2	20.8	21.5									

Instrument Used: Ecochek multi (1) RD5, APW - 217BL (2) Gaseous Pollutants Sampler- AAS-105, (3) Ecochek PM2.5 Sampler- AAS 127  
Calibration Done on : 26/10/2022

  
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Ref. No. : 21708/2023-24

Date: 18/08/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : AUGUST 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136P to 141P, 144P, 145P, 151P to 155P,  
162P, 174P to 176P, 178P, 179P, 183P to 191P of  
Village: Dohaj in Dohaj Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

S. No.	Particulars	Unit	Clinker Silo (West)										
			1		2		3		4		5		
01.	No. of Week	—											
02.	Date & Time Starting of Monitoring	—	02/08/2023 10:00	03/08/2023 10:15	09/08/2023 10:15	10/08/2023 10:30	16/08/2023 09:45	17/08/2023 10:00	23/08/2023 09:35	24/08/2023 09:45	28/08/2023 09:50	29/08/2023 10:00	
03.	Date & Time - Ending of Monitoring	—	03/08/2023 10:00	04/08/2023 10:15	10/08/2023 10:15	11/08/2023 10:30	17/08/2023 09:45	18/08/2023 10:00	24/08/2023 09:35	25/08/2023 09:45	29/08/2023 09:50	30/08/2023 10:00	
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440	
05.	Dominant Wind Direction (From)	—	NE	NE	NW	NE	NE	NW	SE	SE	SE	SE	
06.	Wind Speed Velocity	Km/h	2 to 14	4 to 16	3 to 26	3 to 23	2 to 15	2 to 17	1 to 21	3 to 12	2 to 16	1 to 18	
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /h	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
08.	Average Flow Rate For PM10	m <sup>3</sup> /h	1.10	1.25	1.15	1.1	1.25	1.15	1.16	1.12	1.18	1.16	
09.	Average Flow Rate for Gaseous	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60	60	60	
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	31.4	29.8	26.4	29.7	31.2	33.4	30.4	36.7	31.5	30.2	
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100	100	100	
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	53.1	52.4	48.6	55.6	54.1	55.9	48.2	49.7	46.4	44.2	
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80	80	80	
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	17.2	16.4	3.2	4.7	18.4	19.6	13.8	16.5	16.2	16.4	
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80	80	80	
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	16.2	17.8	17.8	19.7	15.6	14.9	15.6	13.4	14.7	12.3	

Instrument Used: EcoTech make (1) RDS, APM - 2178L, (2) Gaseous Pollutants Sampler- AAS-108, (3)EcoTech PM2.5 Sampler- AAS 127  
Calibration Done on: 26/12/2022

  
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Ref. No: 218/08/2023-24

Date: 18/08/2023

### REPORT OF DRINKING WATER SAMPLES

Name of company : **M/s. Adani Cement Industries Limited,**

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of

Village: Dahej in Dahej Industrial Estate,

Tal. : Vagra, Dist. : Bharuch.

Date of Sampling : 10/08/2023

Sr. No.	Parameters	Unit	Acceptable Limits(*)	Admin Office
01.	pH	pH Units	6.5 to 8.5	7.13
02.	Colour	Hazen	5	Colourless
03.	Turbidity	NTU	1	0.0
04.	Total Dissolved Solids	mg/l	500	128
05.	Total Suspended Solids	mg/l	---	8
06.	Total Solids	mg/l	---	136
07.	Chlorides	mg/l	250	37.2
08.	Sulphates	mg/l	200	5.4
09.	Total Hardness (As CaCO <sub>3</sub> )	mg/l	200	41.3
10.	Calcium (as Ca)	mg/l	75	16.2
11.	Magnesium (as Mg)	mg/l	30	1.6
12.	Total Alkalinity	mg/l	200	22
13.	Nitrates	mg/l	45	4.4
14.	Flouride	mg/l	1.0	0.05
15.	E-Coli	MPN/100ml	Absent	Absent

(\*) Acceptable Limit as per IS 10500 : 2018, Drinking Water Specification

  
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Ref. No. : 201/09/2023-24

Date:03/10/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 1
01	Date of Sampling	---	28/09/2023
02	Time of sampling	Hr.	9:30
03	Stack Attached to	---	Cement Mill
04	Air Pollution Control Measures	---	Bag Filter
05	Stack Height	Meter	70
06	Stack Diameter	Meter	---
07	Stack Temperature	°C	78
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	21
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	49
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022

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## Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Meta Mava, RAJKOT - 360 005.  
Ph.: +91 8099919954 • E-mail : royaenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 402/09/2023-24

Date:03/10/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 2
01	Date of Sampling	---	28/09/2023
02	Time of sampling	Hr.	10:30
03	Stack Attached to	---	Packing Plant (1 No.)
04	Air Pollution Control Measures	---	Bag Filter
05	Stack Height	Meter	50
06	Stack Diameter	Meter	---
07	Stack Temperature	°C	72
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.6
10	Isokinetic flow rate for P.M. Sampling	LPM	22
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	38
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS-100  
Calibration done on : 26/12/2022



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Ref. No. : 203/09/2023-24

Date: 03/10/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 3
01	Date of Sampling	---	28/09/2023
02	Time of sampling	Hr.	11:15
03	Stack/vent Attached to	---	Conveyor belt L11BC1 Vent
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	78
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	8.1
10	Isokinetic flow rate for P.M. Sampling	LPM	20
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	32
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS 300  
Calibration done on : 28/12/2022



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Ref. No. : 404/09/2023-24

Date:03/10/2023

### STACK EMISSION MONITORING ANALYSIS

**Name of Company :** M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 4
01	Date of Sampling	---	28/09/2023
02	Time of sampling	Hr.	11:45
03	Stack/Vent Attached to	---	Conveyor belt 531BC1 transfer point Vent
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/ vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	71
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	6.9
10	Isokinetic flow rate for P.M. Sampling	LPM	19
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	32
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS-100

Calibration done on : 26/12/2022



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Ref. No. : 2105/09/2023-24

Date:03/10/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 5
01	Date of Sampling	---	28/09/2023
02	Time of sampling	Hr.	12:20
03	Stack/vent Attached to	---	Conveyor belt K11BC1 transfer point vent
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	75
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.3
10	Isokinetic flow rate for P.M. Sampling	LPM	23
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	36
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022



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Ref. No. : 2106/09/2023-24

Date:03/10/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company :** M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 6
01	Date of Sampling	---	28/09/2023
02	Time of sampling	Hr.	14:15
03	Stack/vent Attached to	---	Conveyor belt 491BC1 transfer point
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/Vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	74
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.2
10	Isokinetic flow rate for P.M. Sampling	LPM	20
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	35
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS-100  
Calibration done on : 26/12/2022



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Ref. No. : 2107/09/2023-24

Date:03/10/2023

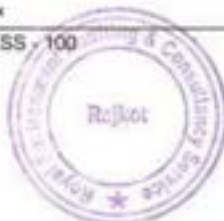
## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 7
01	Date of Sampling	---	28/09/2023
02	Time of sampling	Hr.	14:45
03	Stack/Vent Attached to	---	Conveyor belt 491BC2 transfer point
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/vent Diameter	Meter	---
07	Stack/ Vent Temperature	°C	68
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	20
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	38
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022



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Ref. No. : 2108/09/2023-24

Date:03/10/2023

## STACK EMISSION MONITORING ANALYSIS

**Name of Company : M/s. Adani Cement Industries Limited,**  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack- 8
01	Date of Sampling	---	28/09/2023
02	Time of sampling	Hr.	15:15
03	Stack/Vent Attached to	---	Conveyor belt K11BC2
04	Air Pollution Control Measures	---	Bag Filter
05	Stack/Vent Height	Meter	30
06	Stack/Vent Diameter	Meter	---
07	Stack/Vent Temperature	°C	70
08	Ambient Temperature	°C	32
09	Average Velocity of Flue Gases	m/Sec.	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	21
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	32
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100  
Calibration done on : 26/12/2022



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Ref. No. : 2109/09/2023-24

Date: 03/10/2023

### STACK EMISSION MONITORING ANALYSIS

Name of Company : M/s. Adani Cement Industries Limited,  
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 178/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	CS-01 Vent	CS-02 Vent
01	Date of Sampling	---	28/09/2023	28/09/2023
02	Time of sampling	Hr.	16:00	16:45
03	Stack/Vent Attached to	---	Cement Silo -1	Cement Silo -2
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack/Vent Height	Meter	30	30
06	Stack/Vent Diameter	Meter	---	---
07	Stack/Vent Temperature	°C	79	75
08	Ambient Temperature	°C	32	32
09	Average Velocity of Flue Gases	m/Sec.	8.1	7.8
10	Isokinetic flow rate for P.M. Sampling	LPM	23	22
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150	150
13	Measured Concentration of PM,	mg/Nm <sup>3</sup>	36	39
14	Permissible limits for SO <sub>2</sub>	ppm	100	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100

Calibration done on : 26/12/2022

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Ref. No. : 206/09/2023-24

Date:03/10/2023

### WORK ZONE NOISE LEVEL MEASUREMENT

**Name of Company : M/s. Adani Cement Industries Limited,**

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,

162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of

Village: Dahej in Dahej Industrial Estate,

Tal. : Vagra,Dist. : Bharuch.

Sample Collection Date :15/09/2023

Sr. No.	Location of Sampling	Results in dB(A)	
		Day Time 06:30am to 10:30pm	Night Time 10:30pm to 06:30am
Permissible Limits for 08:00 Hrs.		90.0 dB(A)	
01.	Main Compressor Room	81.1	71.1
02.	Cement Mill	75.2	69.3
03.	Fly Ash Compressor Room	79.2	68.2

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

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

Calibration is done on : 04/03/2023

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Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.  
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Ref. No. : 207/09/2023-24

Date: 03/10/2023

## AMBIENT NOISE LEVEL MEASUREMENT

**Name of Company : M/s. Adani Cement Industries Limited,**

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

Sample Collection date: 15/09/2023

Sr. No.	Location of Sampling	Results in dB(A)	Results in dB(A)
		(Day Time) 6:30am to 10:30pm	(Night Time) 10:30pm to 6:30am
<b>Permissible Limits</b>		<b>75.0</b>	<b>70.0</b>
01.	Security Main gate (East)	67.2	57.2
02.	Packing plant (South)	68.2	58.2
03.	Cement mill (North)	70.2	59.3
04.	Clinker Silo (West)	64.2	54.2

### 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

Instruments used : Sound level meter, Model : SL 4030 (Lutron)  
Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.  
Calibration is done on : 04/03/2023



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## Environment Auditing & Consultancy Service

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Ref. No.: 208/09/2023-24

Date: 03/10/2023

### REPORT OF FUGITIVE EMISSION ANALYSIS

Name of company : **M/s. Adani Cement Industries Limited,**

Plot No. 136/P to 141/P, 144/P, 145/P, 151/P to 155/P,

162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of

Village: Dahej in Dahej Industrial Estate,

Tal. : Vagra, Dist. : Bharuch.

Test Method : As per IS Standards - 5182\_23/4/6

Sr. No.	Particulars	Unit	Location No. 1	Location No. 2	Location No. 3	Location No. 4	Location No. 5
01.	Location of Sampling	---	Clinker shed	Gypsum shed	Packing plant	Truck loading/Parking area	Cement mill
02.	Date of sampling	---	28/09/2023	28/09/2023	28/09/2023	28/09/2023	28/09/2023
03.	Time of sampling	Hr	10:00	10:30	10:50	11:15	11:30
04.	Duration of Sampling	Min.	480	480	480	480	480
05.	Dominant Wind Direction (From)	---	SW	SW	SW	SW	SW
06.	Average Wind Speed	Km/Hr	1 to 20	1 to 156	1 to 14	2 to 20	1 to 15
07.	Flow rate during sampling	m <sup>3</sup> /Hr	1.0	1.0	1.0	1.0	1.0
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2	0.2	0.2
09.	Permissible Limits of SPM *	µg/m <sup>3</sup>	5000	5000	5000	5000	5000
10.	Measured Concentration of SPM	µg/m <sup>3</sup>	2210	1721	1754	2154	1845

Instrument used : Envirotech make (HVS), Model No. APM-430BL, Gaseous Sampling Kit,  
Calibration done on : 26/12/2022

\* Permissible limits of fugitive emission based on CPCB Guidelines

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Ph.: +91 9099919954 • E-mail : royalsenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 509/09/2023-24

Date:03/10/2023

## REPORT OF EFFLUENT ANALYSIS

**Name of company : M/s. Adani Cement Industries Limited,**

Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,  
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

Source of Sample Collection : Sewage Treatment Plant

Date of Sampling :28/09/2023

Sr. No.	Parameters	Unit	Permissible Limit*	STP O/L
01.	pH	mg/l	6.5-9	7.21
01.	Total Suspended Solids	mg/l	<100	19
02.	B.O.D. (3 day's at 27 °C)	mg/l	<30	12.3
03.	Fecal Coliform	MPN	<1000MPN/100ml	0.7

\* Permissible limit is only applicable to STP O/L (Treated Water)

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Ref. No : 410092023-24

Date: 03/10/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : SEPTEMBER 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.135P to 141P, 144P, 145P, 151P to 155P,  
162P, 174P to 175P, 178P, 179P, 187P to 191P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

S. No.	Particulars	Unit	Nr. Main Security Main gate (East)							
			1	2	3	4	5	6	7	8
01.	No. of Week	--								
02.	Date & Time Starting of Monitoring	--	04/09/2023 12:00	05/09/2023 12:15	11/09/2023 12:30	12/09/2023 12:45	18/09/2023 12:00	19/09/2023 12:15	25/09/2023 11:30	26/09/2023 11:45
03.	Date & Time - Ending of Monitoring	--	05/09/2023 12:00	06/09/2023 12:15	12/09/2023 12:30	13/09/2023 12:45	19/09/2023 12:00	20/09/2023 12:15	26/09/2023 11:30	27/09/2023 11:45
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	--	NE	NE	NW	NE	NE	NW	SE	SE
06.	Wind Speed Velocity	Km/hr	2 to 16	2 to 18	2 to 12	1 to 20	4 to 22	2 to 17	2 to 16	1 to 15
07.	Average Flow Rate For PM2.5	m3/hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m3/hr	1.15	1.20	1.15	1.20	1.20	1.15	1.16	1.12
09.	Average Flow Rate for Gaseous	lpm	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	28.1	26.2	28.1	26.2	27.1	23.1	30.1	29.2
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	52.1	56.2	50.2	48.2	53.2	54.2	59.2	60.2
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	17.2	15.3	18.2	22.3	17.2	16.5	20.3	19.2
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	25.2	24.1	22.3	27.1	25.2	23.1	26.4	26.1

Instrument Used - Ecostech make (1) RDS, AFM - 2179L, (2) Gaseous Pollutants Sampler- AAG-109, (3) Ecostech PM2.5 Sampler- AAG 127

Calibration Date on : 26/12/2022

Royal Environment Auditing & Consultancy Service, Rajkot



*Analyst*  
Analyst



# Royal

## Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.  
Ph: +91 9099919954 • E-mail: royalsenvironment@live.com • admin@royalconsultancy.com

Ref. No. : 41109/2023-24

Date: 03/10/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : SEPTEMBER 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.136P to 141P, 144P, 145P, 151P to 155P,  
162P, 174P to 176P, 178P, 179P, 187P to 191P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

S. No.	Particulars	Unit	Packing Plant (South)							
			1	2	3	4	5	6	7	8
01.	No. of Week	--								
02.	Date & Time Starting of Monitoring	--	04/09/2023 12:15	05/09/2023 12:30	11/09/2023 12:45	12/09/2023 13:00	18/09/2023 12:15	19/09/2023 12:30	25/09/2023 11:45	26/09/2023 12:00
03.	Date & Time - Ending of Monitoring	--	05/09/2023 12:015	06/09/2023 12:30	12/09/2023 12:45	13/09/2023 13:00	19/09/2023 12:15	20/09/2023 12:30	26/09/2023 11:45	27/09/2023 12:00
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (Front)	--	NE	NE	NW	NE	NE	NW	SE	SE
06.	Wind Speed Velocity	km/hr	2 to 16	2 to 18	2 to 12	1 to 20	4 to 22	2 to 17	2 to 18	1 to 15
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m <sup>3</sup> /Min	1.15	1.20	1.1	1.2	1.25	1.15	1.16	1.12
09.	Average Flow Rate for Gaseous	LPV	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	26.2	27.1	26.2	30.1	28.2	29.2	30.1	32.2
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	50.2	56.2	54.2	48.2	56.3	59.2	60.1	57.2
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	14.2	13.2	14.2	15.2	18.2	17.2	14.2	13.2
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	22.1	23.1	25.2	20.1	19.2	20.3	26.1	24.2

Instrument Used : Ecotech make (1)RGS, APM - 217B, (2) Gaseous Pollutants Sampler- AAS-108, (3) Ecotech PM2.5 Sampler- AAS 127

Calibration Done on : 26/12/2022

Royal Environment Auditing & Consultancy Service, Rajkot



*Chandeli*  
Analyst



# Royal

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Ph: +91 9099919954 • E-mail : royalservice@live.com • admin@royalconsultancy.com

Ref. No. A1209/2023-24

Date: 03/09/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : SEPTEMBER 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No. 136P to 141P, 144P, 145P, 151P to 155P,  
162P, 174P to 176P, 178P, 179P, 181P to 191P of  
Village: Daboj in Daboj Industrial Estate,  
Tal. : Vagra, Dist. : Bharuch.

S. No.	Particulars	Unit	Cement mill (North)											
			1	2	3	4	5	6	7	8				
01.	No. of Week	--												
02.	Date & Time - Starting of Monitoring	--	04/09/2023 12:30	05/09/2023 12:45	11/09/2023 13:00	12/09/2023 13:15	18/09/2023 12:30	19/09/2023 12:45	25/09/2023 12:00	26/09/2023 12:15				
03.	Date & Time - Ending of Monitoring	--	05/09/2023 12:30	06/09/2023 12:45	12/09/2023 13:00	13/09/2023 13:15	19/09/2023 12:30	20/09/2023 12:45	26/09/2023 12:00	27/09/2023 12:15				
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440				
05.	Dominant Wind Direction (From)	--	NE	NE	NW	NE	NE	NW	SE	SE				
06.	Wind Speed Velocity	KmHr	2 to 16	2 to 18	2 to 12	1 to 20	4 to 22	2 to 17	2 to 18	1 to 15				
07.	Average Flow Rate For PM2.5	m3Hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
08.	Average Flow Rate For PM10	m3Hr	1.10	1.25	1.15	1.1	1.25	1.15	1.16	1.12				
09.	Average Flow Rate for Gaseous	LPW	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60				
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	30.2	36.2	31.2	36.2	38.2	32.2	30.1	29.2				
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100				
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	52.2	58.2	54.2	58.2	59.2	60.2	62.1	59.2				
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80				
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	19.2	18.2	22.3	17.2	19.3	15.2	13.2	11.2				
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80				
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	22.3	21.2	24.2	25.2	26.2	22.2	21.2	20.3				

Instrument Used: Ecoch make (1) RDS, AFM - 21/BL, (2) Gaseous Pollutants Sampler- AAS-108, (3) Ecoch PM2.5 Sampler- AAS 107

Calibration Done on: 26/11/2022

Royal Environment Auditing & Consultancy Service, Rajkot



*Shubho*  
Analyst





# Royal

## Environment Auditing & Consultancy Service

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Ph.: +91 9099919954 • E-mail: royaleenvironment@live.com • admin@royalconsultancy.com

Ref No : 413/09/2023-24

Date: 03/09/2023

### RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : SEPTEMBER 2023

Name of company : M/s. Adani Cement Industries Limited,  
Plot No.126P to 141P, 144P, 145P, 150P to 155P,  
162P, 174P to 176P, 178P, 179P, 187P to 195P of  
Village: Dahej in Dahej Industrial Estate,  
Tal. : Vagra,Dist. : Bharuch.

S. No.	Particulars	Unit	Clinker Silo (West)							
			1	2	3	4	5	6	7	8
01.	No. of Week	--								
02.	Date & Time Starting of Monitoring	--	04/09/2023 12:30	05/09/2023 12:45	11/09/2023 13:00	12/09/2023 13:15	18/09/2023 12:30	19/09/2023 12:45	25/09/2023 12:00	26/09/2023 12:15
03.	Date & Time - Ending of Monitoring	--	05/09/2023 12:30	06/09/2023 12:45	12/09/2023 13:00	13/09/2023 13:15	19/09/2023 12:30	20/09/2023 12:45	26/09/2023 12:00	27/09/2023 12:15
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	--	NE	NE	NW	NE	NE	NW	SE	SE
06.	Wind Speed Velocity	Km/h	2 to 16	2 to 18	2 to 12	1 to 20	4 to 22	2 to 17	2 to 18	1 to 15
07.	Average Flow Rate For PM2.5	m <sup>3</sup> /hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m <sup>3</sup> /hr	1.10	1.25	1.15	1.1	1.25	1.15	1.16	1.12
09.	Average Flow Rate for Calorific	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m <sup>3</sup>	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m <sup>3</sup>	32.2	36.2	30.1	34.2	38.2	28.2	29.2	30.2
12.	Permissible Limits of PM10 *	µg/m <sup>3</sup>	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m <sup>3</sup>	52.2	50.3	54.2	50.6	62.2	63.1	58.2	57.2
14.	Permissible Limits of SO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	12.2	14.2	19.2	18.2	20.1	19.2	18.2	15.2
16.	Permissible Limits of NO <sub>2</sub> *	µg/m <sup>3</sup>	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	21.7	19.5	21.3	17.5	20.8	16.2	25.2	23.1

Instrument Used: Ecosch make (1) RCS, APM - 2179L, (2) Gaseous Pollutants Sampler- AAS-108, (3)Ecosch PM2.5 Sampler- AAS-127

Calculation Done on : 26/12/2022

Royal Environment Auditing & Consultancy Service, Rajkot



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Analyst



### Implementation of Corporate Responsibility for Environment Protection (CREP)

Following activities as per recommendations mentioned in CREP guidelines of CPCB for Cement Plants is being implemented:

S. No.	CREP Condition	Action Plan
1	Cement plant, which are not complying with notified standards, shall do the following to meet the standards: Augmentation of existing Air pollution Control Devices - by July 2003. *No compliance units shall submit bank guarantee equivalent to 10% value of Pollution Control Equipment required.	Not applicable
2	Cement plants located in critically polluted or urban areas( including 5 Km distance outside urban boundary) will meet 100 mg/Nm <sup>3</sup> limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter 50 mg/Nm <sup>3</sup> .	Not Applicable
3	The new cement kiln to be accorded NOC/Environmental Clearance will meet the limit of 50 mg/Nm <sup>3</sup> for particulate matter emission.	All Pollution Control Equipment has been designed to meet the limit of 50 mg/Nm <sup>3</sup> for particulate matter emission.
4	The cement industries will control fugitive emission from all raw material and product storage and transfer. However, the National Task Force will decide the feasibility for the control of fugitive emission from limestone and coal storage areas.	Closed storage / silos for Clinker, Fly Ash, Gypsum and Cement has been provided. Bag filters are installed at all material transfer points.
5	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operation/section for installation of continuous monitoring equipment. The industry will install the continuous monitoring system (CMS).	Continuous monitoring equipment has been installed.
6	Industries will submit the target date to enhance the utilization waste material.	ACL committed to use fly ash up to 35%. ACL is being utilizing Fly ash and Gypsum as waste material generated from pollution control equipment of Thermal Power Plant.
7	NCBM will carry out a study on hazardous waste utilization in cement kiln.	Not applicable
8	Cement industries will carry out feasible study and submit target dates to CPCB cogeneration of power by July-2003.	Not applicable



Date: 29.11.2023

To

The State Environmental Impact Assessment Authority  
Gandhinagar,  
Gujarat

**Sub.:** Intimation of plant operation for production of cement at Dahej Cement Grinding Unit of M/s Adani Cement Industries Limited

**Ref.:** 1. Copy of EC letter No. SEIAA/GUJ/EC/3(b)/633/2019, Dated: 3rd May, 2019 to 'Adani Cementation Limited' (ACL) – Enclosure 1  
2. Copy of EC transferred to 'Adani Cement Industries Limited' (ACIL) letter no. SEIAA/GUJ/EC/3(b)/1752/2022 dated 07.07.2022 – Enclosure 2  
3. Copy of Consent to Operate issued by GPCB dated 22.06.2023 – Enclosure 3

Dear Sir

This is with reference to Point No. (vii) under section IX – Miscellaneous of Standard conditions prescribed in Office Memorandum (OM) published by MOEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Stand-alone Cement grinding units without Captive Power Plant regarding subject.

We would like to inform you that Dahej Cement Grinding Unit proposed by M/s Adani Cement Industry Limited is in operation and started production dated 01<sup>st</sup> July 2023.

This is for your kind information and record, please.

Thanking You  
Yours Sincerely

  
Ajay Sharma  
(Plant Head)  
Dahej Cement Grinding Unit



CC to:

1. Integrated Regional Office, (MOEFCC) Gandhi Nagar A wing- 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar-382010

Adani Cement Industries Limited  
Adani Corporate House  
Shantigram, S G Highway  
Ahmedabad 382 421  
Gujarat, India  
CIN: U26999GJ2021PLCL23226

Tel +91 79 2856 5555  
Fax +91 79 2555 5500  
www.adani.com

Registered Office: Adani Corporate House, Shantigram, Nr Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India

Date: 29.11.2023

To

The State Environmental Impact Assessment Authority  
Gandhinagar,  
Gujarat

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Yours Sincerely

Ajay Sharma  
(Plant Head)  
Dahej Cement Grinding Unit



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1. Integrated Regional Office, (MOEFCC) Gandhi Nagar A wing- 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar-382010

Adani Cement Industries Limited  
Adani Corporate House  
Shantigram, S G Highway  
Ahmedabad 382 421  
Gujarat, India  
CIN: U26999GJ2021PLC123226

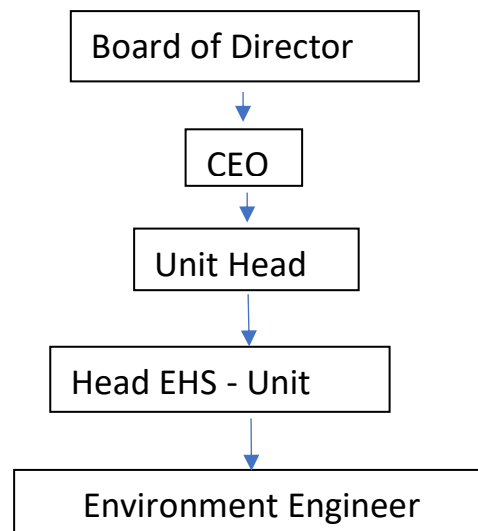
Tel +91 79 2656 5555  
Fax +91 79 2555 5500  
www.adani.com

### FORMATION OF ENVIRONMENTAL MANAGEMENT CELL (EMC)

To maintain the environmental quality within the standards, regular inspections, audits & monitoring of various environmental components is required. Adani Cement Industries Limited has established an Environmental Management Cell (EMC) for environmental monitoring and control. The EMC team is responsible for pollution monitoring aspects and implementation of control measures.

Efficient engineers with technicians have been deployed for maintenance, up keeping and monitoring the pollution control equipment, to keep them in working mode at the best of their efficiencies.

### Structure of Environment Management Cell



### Responsibilities of EMC

The EMC functions to ensure that environmental status of the area remains within the statutory standard of MoEFCC/SEIAA and SPCB. The responsibilities of the EMC include the following:

- Procurement and commissioning of Pollution Control/Monitoring Equipment
- Environmental monitoring of the core and buffer zone and evaluation of results. Keeping of records to track the surrounding environment quality status.
- Development of Maintenance schedules for pollution control equipment.
- Ensuring that prescribed standards are maintained.
- Ensuring optimum water usage.
- Implementation of the mitigation measures suggested in EIA/EMP Report.
- Ensuring greenbelt development/plantation & its maintenance
- Compliance with guidelines and statutory requirements.
- Coordination with statutory bodies, functional groups of the unit, Corporate Project/Environment & Engineering department etc.
- Regular environmental review and performance appraisal.
- Coordination with the vendors dealing in waste supplies and disposal.

## ADANI CEMENT INDUSTRIES LIMITED

- Ensuring that the waste handling and disposal is carried out as per prescribed conditions.
- Implementation of the mitigation measures suggested in EIA/EMP Report.
- Conducting regular training programmes on various environmental requirements especially sustainable development, climate change, environmental monitoring etc.
- Reporting of compliances and non-compliances (if any) to the Board and other stakeholders.

### Implementation Matrix of EMP

Location of PCE	Type of PCE	Maintenance of PCE	Responsibility
Cement Mill	Pulse Jet Bag Filter	Half-yearly	Unit Head
All transfer Points	Dust Collectors	Half-yearly	Unit Head
STP	Modular STP	Monthly	Head EHS - Unit

Monitoring Devices	Location	Frequency of Monitoring	Responsibility
CAAQMS	Plant Boundary (@ 120° distance)	Continuous online System	Head EHS - Unit
CEMS (Stack Monitoring System-Opacity Meter)	Stacks	Continuous online System	Head EHS - Unit
Sampling and testing of Waste-Water	STP outlet	Monthly	Head EHS - Unit
Noise and Vibration	Within and outside plant	Quarterly	Head EHS - Unit

Green Belt Plantation	33% of total plant area	3 years	Head EHS - Unit
Occupational Health and Safety	All on roll and off roll workers	Routine practice	Head EHS - Unit

### EMP Budget

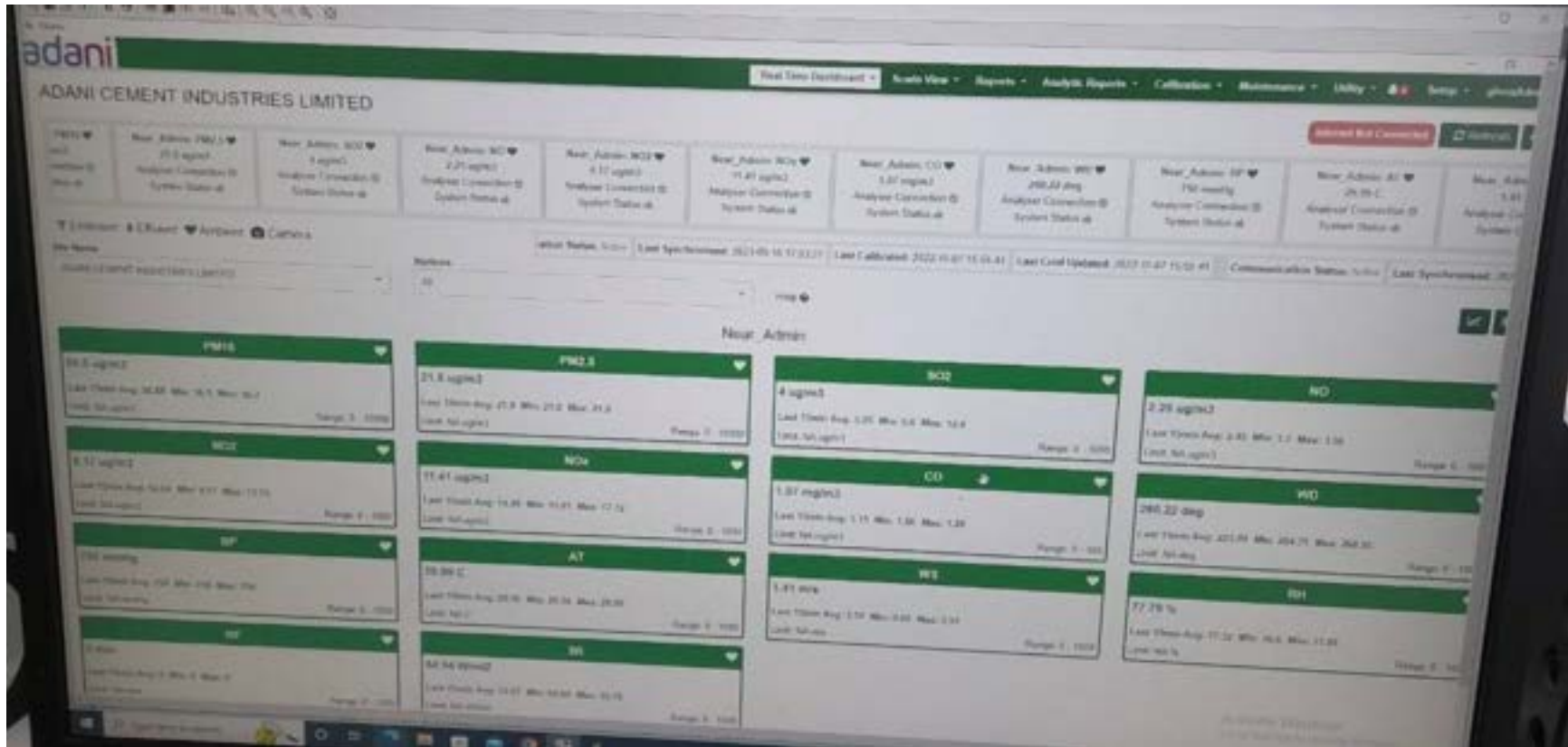
SN	Environment Protection measures	Budget Estimated (Rs. in Lakh)	Budget incurred (Rs. in Lakh)
1	Air pollution control device	1200.0	Completed
2	Water Pollution & Reclamation	100.0	
3	Occupational health and safety	50.0	
4	Environmental Monitoring	100.0	
5	Green Belt Development & Management	30.0	
	<b>Total</b>	<b>1480.0</b>	

## ACIL Dajej Unit Bag Filetr List

Area	Sr	Tag No	Location
BRU and Clinker Silo Circuit	1	491BF1	Above BRU Belt conveyor 491 BC1
	2	491BF2	Clinker silo top
	3	511BF4	Clinker silo feed BE 511 BE01
Hopper Building	4	511BF5	Above clinker hopper HP01
	5	511BF1	Above Clinker Extration belt 511 BC2
	6	k11BF2	Above Gypsum feed belt K11 BC1
	7	K11BF3	Above Gypsum hopper 511 HP3
	8	K11BF4	Above Gypsum hopper 511 HP3 & HP4
	9	531BF1	Above mill feed belt 531 BC1
RC Building	10	561BF1	Above Mill reject bucket elevator belt 531 BC2
	11	561BF2	Above mill reject belt 561 BC1
	12	K11BF01	Above mill reject BE discharge belt 531 BC2
	13	591BF2	Above Mill BH hopper discharge air slide 591 AS3
	14	591BF1	Above Mill BH hopper discharge air slide 591 AS2
	15	591BF3	Above OPC Cement Silo
	16	592BF1	Above PPC Cement Silo
Fly Ash Circuit	17	T9ABF1	Above Fly Ash Silo
	18	T9ABF3	Above Fly Ash bin
Packing Plant	19	611BF1	OPC Silo
	20	611BF3	To 611BE1 bucket elevator OPC Silo
	21	611BF1	Above 611AS07 air slide PPC Silo
	22	661BF1	Packer area
	23	661BF4	Above packer discharge air slid
HAG	24	L11BF2	Above HAG Raw coal belt L11BC2
	25	L11BF1	Above HAG Raw coal belt L11BC1



SCREENSHOT OF ONLINE MONITORING SYSTEM



## ENVIRONMENT POLICY

We at Adani Cementation Limited, engaged in manufacturing and supply of cement are **Committed to Protect our Environment** and **Continual Improvement** of our overall performance,

### Through

- Implementation of latest technology for **Prevention of pollution.**
- Optimal use of **Natural resources** and **Waste minimization.**
- Ensure all **Legal compliances** and EMS requirements.
- **Monitoring & reviewing** of unsafe acts and conditions to reduce the impact on Environment.
- **Consultation, communication** and **Awareness** rising among stakeholders.

### Guided by

The principles of **Environmental Management Systems**

We will ensure communication of this policy to relevant stakeholders in appropriate manner.

Date: 2<sup>nd</sup> January 2020



Director





**CERTIFIED TRUE COPY OF RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF ADANI CEMENTATION LIMITED ("THE COMPANY") AT ITS MEETING HELD ON THURSDAY, 2<sup>nd</sup> JANUARY, 2020 AT ADANI CORPORATE HOUSE, SHANTIGRAM, NEAR VAISHNODEVI CIRCLE, AHMEDABAD - 382421**

**"RESOLVED THAT** the process of monitoring & reporting mechanism of non-compliance of any environmental laws pertaining to Integrated Cement Project at Lakhpat, Gujarat, shall be as per the following details:

**Reporting mechanism of Environmental Non-Compliance and Emergencies:**

**Site Environmental Head is responsible for:**

- Developing effective Environment Management System.
- To monitor the Environmental Compliance Conditions and submission of monthly report to Unit Head.
- To monitor the progress of the Environmental Targets set for the year.
- To report all the environmental non-compliance as and when it happens to the Unit Head of Integrated unit.

**Unit Head is responsible for:**

- Effective implementation of the Environment Management System.
- Monthly review of the Environmental Compliance Conditions.
- Monthly review of the progress of the Environmental Targets set for the year.
- To report all the environmental non-compliance to the Business CEO within 24 hrs.
- To report any environmental emergencies to the Business CEO on immediate basis.

**Business CEO is responsible for:**

- Quarterly review of the Environment Management System.
- Quarterly review of the Environmental Compliance Conditions.
- Quarterly review of the progress of the Environmental Targets set for the year.
- To report all the environmental non-compliance to the Board of Directors on Quarterly basis.
- To report any environmental emergencies to the Board of Directors on immediate basis.

Adani Cementation Limited  
Adani House  
56, Shrimali Society  
Navrangpura  
Ahmedabad 380 009  
Gujarat, India  
CIN: U74999GJ2016PLC094589

Tel +91 79 2555 5555  
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info@adani.com  
www.adani.com



Registered Office: Adani House, 56, Shrimali Society, Navrangpura, Ahmedabad 380 009, Gujarat, India



**Board of Directors is responsible for:**

- Quarterly review of the Environmental Compliance Conditions.
- Compliance of escalation and review system on environment non-compliance as per Environment Management System.
- Provide a summary of the Annual Environmental Performance Statement to Stakeholders.

Certified True Copy  
For **Adani Cementation Limited**

**Rohit Vohra**  
**Director**  
**DIN: 08060372**



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## **ENVIRONMENT, HEALTH & SAFETY POLICY**

We at Adani, strive to make our businesses sustainable, that benefits our customers, our employees, our shareholders and society in general. We believe that in addition to integrated infrastructure business, there is a bottom line in performing our operations according to prescribed standards, specifications and regulations on governance, which are safe in working and environmental friendly for the well-being of the working community.

As a responsible corporate, we at ADANI have a firm conviction that the industrial injuries, occupational hazards as well as safety and environmental incidents are preventable. We recognize and trust people as our most important asset and have commitment to provide safe and healthy work environment impacting not only those, who are working in our industry but also community, which is living in the vicinity.

### **To achieve this objective, we shall**

- a. Develop, implement, maintain and sustain EHS Management System across the Group to set up new benchmarks for the respective sector of operations, which superimpose the regulatory and statutory requirements.
- b. Verify, audit and periodically review EHS performance and set new targets to revise these benchmarks.
- c. Formulate EHS objectives and targets for continual improvement and to have a periodic review for ensuring that these are in conjunction with the individual business and corporate levels.
- d. Conduct all our operational activities in such a manner as to avoid harm to employees, contractors, stakeholders and community at large.
- e. Inculcate safety & health as a personal value through behavioral intervention and recognize it across levels with continuous correction of unsafe behavior.
- f. Provide adequate training and resources so as to bring awareness and ability to carry out work safely.
- g. Emphasize responsibility and accountability to all employees and contractor workforce for safe performance on the job and encourage safe behavior off the job.
- h. Evolve ways to reduce or eliminate the use or release of toxic and hazardous material and prevent pollution by conserving natural resources, recovering and recycling the raw materials for safe, healthy and clean environment.

  
**GAUTAM S ADANI**

**Date:** 01.01.2016

**ATTACHMENT 13**

The photograph showing modular STP of 10KLD capacity has been installed and in operation with network system.



