



Ref.: ACIL/DCGU/Environment/EC-Comp/SEIAA/04

Date: 25.11.2024

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 Clearance 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 07.07.2022 - Enclosure 2
3. Amendment of EC of ACIL Letter No. SEIAA/GUJ/EC/3(b)/1408/2023, Dated 02.11.2023 - Enclosure 2
4. 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 Dahej Industrial Estate Taluka vagra, district Bharuch (Gujarat) for the period of April 2024 to September 2024.

Above mentioned plant is in operation and started production dated 01st July 2023.

This for your kind information and record.

Thanking You
Yours faithfully
For Adani Cement Industries Limited,

(Ajay Sharma)
Plant Head



Post Received
Gujarat Pollution Control Board
BHARUCH
25/11/24

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 Forest (C), Ministry of Env, Forest and Climate Change,
Integrated Regional Office, Gandhinagar 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,
Narmada Nagar, Bharuch - 3922015

**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

Dahej, Gujarat

PERIOD: April - 2024 to September - 2024

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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] and further EC amendment [vide letter no. SEIAA/GUJ/EC/3(b)/1408/2023 dated 02.11.2023] AT DAHEJ INDUSTRIAL ESTATE, TALUKA VAGRA, DISTRICT BHARUCH (GUJARAT) BY STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY (SEIAA) - GUJARAT

	Additional Condition	Compliance
	Letter No. SEIAA/GUJ/EC/3(b)/1408/2023, Dated 02.11.2023	
1	Overall production capacity shall be unchanged and shall be as per EC Granted vide order dated 03.05.2019, even after installing of new hot air generator having the capacity of 100 Lakh K/Hour with pulse jet type bag houses APCM and utilisation of chemical gypsum as a raw material in Cement manufacturing.	Noted and complied
2	Proponent shall carry out various measures for dust mitigation etc.	<p>Noted and complied</p> <p>Following measures for dust mitigation being followed:</p> <ol style="list-style-type: none"> 1. Dust collection systems (DCS) has been installed at every transfer point and potential source area. A consolidated list of DCS is enclosed as Attachment - 09 2. Regular cleaning and maintenance have been developed as per schedules. 3. Periodic monitoring and assessment of dust levels is in routine practice. These measures aim to minimize dust emissions and ensure compliance with Environmental regulations.
3	PP shall obtain permission under Rule 9 of	Utilization of Gypsum in standalone

hazardous and Other Wastes (Management and transboundary Movement) Rule-2016 for utilisation of Gypsum.	cement grinding unit for coprocessing is govern by H&OW(M&TM) Rule-2016.
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Condition No.24, 26, 28 & 38 shall now be read as under:

A3		Air					
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 Control (APCM)	Pollution Measure
1	DG Set (500 KVA)	18	Diesel	25 Ltr/hour	PM, SO2, NOX	Adequate	stack height
2	Hot Air generator (100 Lakh Kcal/hour)	70	Coal / Dieses / LNG OR/ *Biodiesel	100 MT/day, 5 KL/Day.	PM, SO2, NOX	Pulse Jet Type	
26	Unit shall provide adequate APCM with process gas generation sources as mentioned below.					Noted and complied	
S.N.	Source of emission			Type of emission	Stack / Vent Height (meter)	Air Pollution Control Measures (APCM)	
	Gypsum crusher (Total 1 nos)			PM	18	Bag filter	
	Cement mill (Total 2 nos)			PM	70	Bag filter	
	Hot Air generator			PM		Pulse Jet Type Bag House	
	Packing plant (Total 3 nos)			PM	50	Baa filter	
	All conveyor belts and transfer points			PM	30	Baa filter	
	All raw materials and finished product silos			PM	30	Bag filter	
28	The Reverse Pulse Jet Type Bag Filters and Pulse Jet type Bag House shall be provided with proper metallic casing, adequate stack height and stack monitoring requirement facility.					Complied	
A4		SOLID/HAZARDOUS WASTE					
38	All the hazardous waste management shall be taken care as mentioned below;					Noted and Being Complied	
S.N.	Type of Waste	Source	Category as per Haz. Waste Rules, 2016	Quantity MT/Annum	Management of HW		
A.	Hazardous						
	Used Oil	Utilities & Operation	5.1	0.1 MT/Annum	Grease: Reused internally for lubrication of scraper		

					chains Oil Disease through approved recycler
	Cotton Rags	Maintenance Workshop	33.2	600 kg/Annum	Dispose through CHWIF
	Discarded containers	Paints & Oil Drums	33.1	2000 Nos./Annum	Dispose through approved Recycler
	Gypsum	Receipt Storage & Consumption	Solid Waste 26.1 / 35.3 / 38.1 / C-II-12	0.3 MMTPA	Reception, Collection, transportation, storage and utilize for cement Manufacturing.
B. Non-Hazardous					
	Dust from APCM	Manufacturing Process	Solid Waste	0.15 million MT/Annum	100% Recycled in process
	Sludge generation from STP	STP	Solid Waste	0.365 million MT/Annum	Manure for green belt development
	Fly ash	Receipt Storage & Consumption	Solid Waste	0.6MMTA	Collection, transportation, storage, receipt and consumption for Manufacturing

Rest of all the conditions of environment Clearance order no SEIAA/GUJ/EC/3(b)/1752/2022, Dated 07.07.2022 shall remain unchanged.

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

A	Specific Condition	Compliance
	SEIAA/GUJ/EC/3(b)/633/2019, Dated 03.05.2019	
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"> ● Noted and being Complied ● Clinker for grinding unit is being procured from Rabariyawas, Marwar, Munwa.

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, an effluent treatment plant is not required and hence installation of an 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 Attachment 01
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"> ● Noted and complied ● Compliance to the conditions of applicable standard OM prescribed by MOEFCC is enclosed as Attachment-2
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 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>Noted and Complied</p> <p>Continuous monitoring system has been installed for monitoring of PM concentrations and the online data are available on GPCB website.</p> <p>All equipment is installed with pollution control devices to maintain the dust emission well within the limits at bag filter.</p>

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.	Noted and complied. The guidelines of GPCB are being adhered.
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	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 Attachment 06
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	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 Attachment 09
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	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 Attachment 01
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 Attachment 06

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 Attachment 09
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 Attachment 8A
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 Attachment 03
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 Attachment 06
A2 Water		
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	Noted and complied.

	premise and hence, freshwater requirement shall not exceed 300 KL/Day and it shall be met through ground water. Necessary permission from concern authority in this regard shall be obtained.					
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 wastewater is used for green belt development and water spraying on road for dust suppression. Photographs of STPs are enclosed as Attachment 12			
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 wastewater outside the premises in any case.		Noted and complied			
22	Unit shall provide buffer water storage tank of adequate capacity for storage of treated wastewater 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 Attachment 13			
A3	Air					
24	Unit shall not exceed fuel consumption for stand by DG set as mentioned below:		Noted and complied as mentioned above			
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 KVA)	18	Diesel	25 Ltr/hour	PM, SO2, NOX	Adequate stack 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.					Complied
S.N.	Source of emission	Type of	Stack / Vent Height	Air Pollution Control Measures (APCM)		

		emission	(meter)	
	Gypsum crusher (Total 1 nos)	PM	18	Bag filter
	Cement mill (Total 2 nos)	PM	70	Bag filter
	Packing plant (Total 3 nos)	PM	50	Baa filter
	All conveyor belts and transfer points	PM	30	Baa filter
	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"> • Noted and compliance assured. • ACIL will explore the possibility of better result while implementing APCM
28	The Reverse Pulse Jet Type Bag Filters shall be provided with proper metallic casing, adequate stack height and stack monitoring requirement facility.			Complied
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 the operation phase.			Noted and compliance assured.
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			Noted and compliance assured.

	indicative guidelines shall be followed to reduce the fugitive emission.				
a)	Enclosure shall be provided at all loading and unloading operations.		Noted and compliance assured.		
b)	Water shall be sprayed on all raw materials stockpile 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 ₁₀ , PM _{2.5} , SO ₂ & NO _x 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 July 2024 Quarterly Ambient Air Quality monitoring report for April 2024 to September 2024 is enclosed (Attachment - 6)		
A4	SOLID/HAZARDOUS WASTE				
38	All the hazardous waste management shall be taken care as mentioned below;		Noted and being complied		
S.N.	Type of Waste	Source	Category as per Haz. Waste Rules, 2016	Quantity MT/Annum	Management of HW
A.	Hazardous				
	Used Oil	Utilities & Operation	5.1	0.1 MT/Annum	Grease: Reused internally for lubrication of scraper chains Oil Disease through approved recycler
	Cotton Rags	Maintenance Workshop	33.2	600 kg/Annum	Dispose through CHWIF
	Discarded containers	Paints & Oil Drums	33.1	2000 Nos./Annum	Dispose through approved Recycler
B.	Non-Hazardous				
	Dust from	Manufactur	Solid Waste	0.15 million	100% Recycled in process

	APCM	ing Process		MT/Annu	
	Sludge generation from STP	STP	Solid Waste	0.365 million MT/Annum	Manure for green belt development
	Gypsum	Receipt Storage & Consumption	Solid Waste	0.1MMTA	Collection, transportation, storage, receipt, and consumption for Manufacturing
	Fly ash	Receipt Storage & Consumption	Solid Waste	0.6MMTA	Collection, transportation, storage, receipt, and consumption for Manufacturing
A5	SAFETY				
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 being complied	
44	All necessary safety measures shall be taken to avoid any kind of accident.			Noted being complied	
45	Training shall be imparted to all the workers on safety and health aspects.			Noted being complied	
A6	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			Noted being complied	
A7	CLEANER PRODUCTION AND WASTE MINIMISATJON				
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 being complied	
48	Efforts shall be made to use more fly ash in cement manufacturing without compromising the quality of the cement.			Noted being complied	

A8	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.	<p>Noted and compliance assured.</p> <p>Plantation being carried out in phased manner. About 1000 Trees have been planted during 1st phase of plantation all along plant boundary covering about 1 ha. area</p> <p>It is planned to complete 33% of plant area before end of year 2025. Considering 2nd & 3rd phase of plantation.</p> <p>Photographs of the existing green belt area are enclosed as Attachment-14 for your perusal.</p>
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 roadsides 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	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	<ul style="list-style-type: none"> ● Noted. ● Compliance to the applicable standard conditions are enclosed as Attachment-2
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 and the monitoring report shall be submitted to the	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 implementation of CER is enclosed as Attachment-1

	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 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 garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	Complied
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 being complied
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 conditions mentioned in "The Companies	Noted and compliance assured

	(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"> ● Complied ● information to the public regarding EC issued by the SEIAA for this project is published on 14th May 2019 both in "INDIAN EXPRESS" (English) and "GUJARAT SAMACHAR" (Gujarati) ● Copy of advertisement is enclosed as Attachment-4
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 April-2024 to September-2024 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	Noted

	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.	Financial closure of the 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. (Attachment - 5)
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



No. SEIAA/GUJ/EC/3(b)/1468/2023

Date: 2 NOV 2023

By R P A D

Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/3(b)/1752/2022 Dated 07/07/2022.
(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 M/s. Adani Cement Industries Limited for setting up of manufacturing plant for 'Cement Plant' (Stand-alone clinker grinding facility) 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, Dahej Industrial Estate, Ta. Vagra, District: Bharuch, Gujarat vide this office letter no. SEIAA/GUJ/EC/3(b)/1752/2022 Dated 07/07/2022, is being subjected to amendment in Condition No. 24, 26, 28 & 38.

And whereas SEIAA has granted Environment Clearance vide office order letter no. SEIAA/GUJ/EC/3(b)/1752/2022 Dated 07/07/2022, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for amendment in the environmental clearance vide their online application vide No. SIA/GJ/IND3/302856/2023 dated 14/08/2023. The project was scheduled for hearing in the SEAC meeting held on 29/08/2023.

The SEAC, Gujarat had recommended the project vide their letter dated 29/09/2023 to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 29/08/2023. The proposal was considered by SEIAA, Gujarat in its meeting held on 20/10/2023 at Gandhinagar. After careful consideration, amendment in Condition No. 24, 26, 28 & 38 of Environment Clearance order dated: 07/07/2022 is issued as below.

Additional Conditions:

1. Overall production capacity shall be unchanged and shall be as per EC granted vide order dated 3.5.2019, even after installing of New hot air generator having capacity of 100 Lakh K/ Hour with pulse jet type bag houses APCM and utilisation of chemical gypsum as Raw material in Cement manufacturing.
2. Proponent shall carry out various measures for dust mitigations etc
3. PP shall obtain permission under Rule-9 of Hazardous & Other Wastes (Management and Transboundary Movement) Rule-2016 for utilization of Gypsum.

Condition No. 24, 26, 28 & 38 shall now be read as under:

Condition No. 24 (A. 3 Air):

24. Unit wants to install one Hot Air generator with the capacity of 1 Cr kcal/day

Sr. No.	Source of emission with capacity	Stack height (meter)	Type of fuel	Quantity of fuel MT/Day	Type of air emission i.e. Air pollutants	Air pollution control measures
1.	DG Set (500 KVA)	18	Diesel	25 Litter/hr.	PM, SO ₂ , NO _x	Adequate stack height
2.	Hot Air generator (100 Lakh Kcal/hour)	70	Coal / Diesel / LNG OR/ *Bio Diesel	100 MT/day, 5 KL/Day,		Pulse Jet Type Bag House

Condition No. 26 (A. 3 Air):

26. Unit shall provide adequate APCM with process gas Generation sources as mentioned below.

Sr. no.	Source of emission	Type of emission	Stack/vent Height (meter)	Air Pollution Control Measures
1.	Gypsum crusher (Total 1 Nos.)	PM	18	Bag Filter
2.	Cement mill (Total 2 Nos.)	PM	70	Bag Filter
	Hot Air generator	PM		Pulse Jet Type Bag House
3.	Packaging 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

Condition No. 28(A. 3 Air):

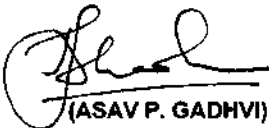
- The Reverse Pulse Jet Type Bag Filters and Pulse jet type Bag House shall be provided with proper metallic casing, adequate stack height and stack monitoring requirement facility.

Condition No. 38 (A. 4 Solid/Hazardous Waste):

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

Sr. no.	Type/Name of Hazardous waste	Specific Source of generation	Category as per Haz. Waste Rules, 2016	Quantity, MT/ Annum	Management of HW
A. Hazardous					
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 approved CHWIF
3	Discarded containers	Paints and oil drums	33.1	2000 Nos./Annum	Dispose through approved Recycler
4.	Gypsum	Receipt, Storage & Consumption	Solid Waste 26.1/35.3/38.1/C-II-12	0.3 MMTPA	Reception, Collection, transportation, storage and utilize for cement manufacturing.
B. Non Hazardous					
5.	Dust from APCM	Manufacturing process	Solid Waste	0.15 MMTPA MT/Annum	100% Recycled in process
6.	Sludge generation from STP	STP	Solid Waste	0.365 MT/Annum	Manure for green belt development
7.	Fly ash	Receipt, Storage & Consumption	Solid Waste	0.6MMTPA	Collection, transportation, storage, receipt and consumption for cement manufacturing

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/3(b)/1752/2022 Dated 07/07/2022 shall remain unchanged.


(ASAV P. GADHVI)

Member Secretary

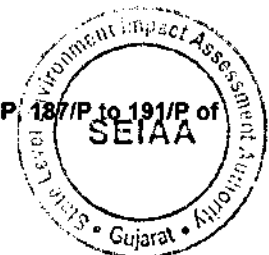
Issued to:

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, Dahej Industrial Estate,

Ta. Vagra, District: Bharuch, Gujarat





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.

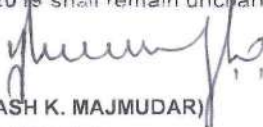
And whereas SEIAA has granted Environment Clearance vide office order letter no. SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019, under the provisions of the aforesaid Notification.

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, 8th 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.



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



STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/3(b)/ 633 /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	Cement will be used as Raw material for infrastructure construction
2	Ordinary Portland Cement(OPC)	65997-15-1	(In two phases each	
3	Portland slag Cement (PSC)	65997-15-1	with 1 MTPA	
4	Portland Composite Cement (PCC)	65997-15-1	Capacity)	
	Total		2, Million MTPA	

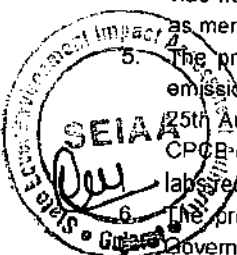
The project activity is covered in 3(b) and is of 'B' Category. Public hearing was conducted on 07/12/2018.

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 14th 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 25th August, 2014 (Cement) and subsequent amendment dated 9th 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 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 ₂ , NO _x	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 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.
 - 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.



Guja 4 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
A. Hazardous					
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. Non Hazardous					
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

Under CER activity 2024-2025

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 nearby 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 = $(0.35+0.23+0.35+0.17+0.06= 1.16 \text{ Cr})$

Functions for CER implementation:

- i. Monitor the overall implementation of the CER activities and the disbursement of the funds.
- ii. Examine the annual targets and 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 3rd party annual audit of the CER activities shall be carried out.

CER Implementation Plan of Adani Dahej Cement Industries Limited, Dahej for FY 2024 - 25				Activitywise budget for FY 2024-25
S.N	Activities	Total CER Expenditure planned for FY 24 - 25	Proposed CER Activities	
1	Education: Project Utthan	13.97	Ankuram play school Renovation @ Lakhigam	3.13
			Adani Evening Education Centre: Tuition classes for Halpati students of Lakhigam, Luvara & Days celebration in schools	10.84
2	Community Health Care and Preventive measures	29.67	Health Activity (Adolecents health awareness program)	15.16
			Preventive measures for dust pollution control (Mist Cannon)	14.51
3	Green Energy Initiative (Contribution to various Govt. Schemes)	11.76	Solar system for health centres @ Dahej, Lakhigam & Ambetha	11.76
4	Vruksh se Vikas: Massive Plantation Drive at Various locatlons In the Vicinity of Cement plant	47.09	Plantation at various locations of Dahej, Lakhigam & Luvara villages	47.09
5	Infrastructure Development	25.00	Animal Husbandry Centre, Dahej	25.00
6	Baseline Survey	6.00	By Third Party	6.00
7	Administrative Cost	6.67	Manpower support for monitoring & implementation of CER activities	1.35
			Hiring of vehicle for CER activities	5.32
Total (INR in Lakh)		140.16		140.16

Usha Mishra

Usha Mishra (Jun 17, 2024 11:35 GMT+5.5)

Proposer
Ms. Usha Mishra
Head CSR – Dahej

Pankti

Pankti (Jun 17, 2024 11:57 GMT+5.5)

Proposer
Mrs. Pankti Shah
State Head (Gujarat) CSR – AF

Sanjay Prasad

Sanjay Prasad (Jun 17, 2024 15:45 GMT+5.5)

Proposer
Mr. Sanjay Prasad
In charge – Environment & Sustainability

Ajay Sharma

Ajay Sharma (Jun 17, 2024 16:25 GMT+5.5)

Approver
Mr. Ajay Sharma

Plant Manager – Dahej

Rajiv Jain

Rajiv Jain (Jun 21, 2024 11:10 GMT+5.5)

Approver
Mr. Rajiv Jain – Chief Manufacturing Officer
CMO

S. Sankar

Approver
Mr. Sukuru Ramarao
COO – Cement Manufacturing

Dinesh

Dinesh (Jun 21, 2024 19:29 GMT+5.5)

Approver
Mr. Dinesh Kumar Sonthalia
Program Management – Finance

Smita

Sanjay Kumar Gupta (Jun 25, 2024 16:12 GMT+5.5)

Approver
Mr. Sanjay Kumar Gupta
CPO

Vinod Bahety

Vinod Bahety (Jun 29, 2024 18:21 GMT+5.5)

Approver
Mr. Vinod Bahety
CFO

Ajay Kapoor

Ajay Kapoor (Jun 29, 2024 09:59 GMT+5.5)

Approver
Mr. Ajay Kapoor
CEO

V.S. Gadhvi

Approver
Sh. V.S.Gadhvi
ED – AF

Priti G. Adani

Approver
Dr. (Mrs.) Priti G. Adani
Chairperson – AF

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

Standard EC Conditions for Cement Grinding Units without Captive Power Plants:		
I.	Statutory compliance	
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.	Not Applicable No forest land involved in project area
ii.	The project proponent shall obtain clearance from the National Board for Wildlife. If applicable.	Not Applicable (There is no Wildlife Sanctuary or National Park in the 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).	Not Applicable
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). Attachment – 5

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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 State pollution Control Board Committee.	CTE has been obtained and transferred in the name of Adani Cement Industries Limited (ACIL). Attachment – 5
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
II.	Air quality monitoring and preservation	
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 th August 2014 (Cement) and subsequent amendment dated 9 th May, 2016 (Cement) and concerned to SPCB and CPCB online sensors 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. A continuous monitoring system was installed for monitoring PM concentrations, and the online data is available on GPCB website. All equipment is installed with pollution control devices to maintain the dust emission well within the limits at bag filter. Screenshot of online monitoring data is attached as Attachment 11
II	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 attached as Annexure- 6
III	The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least four locations (One within	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.

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	and three outside the plant area at an angle of 120° each), covering upwind and downwind direction (case to case basis small plant Manual, Large plants Continuous)	Ambient air quality monitoring report is attached as Attachment - 06
IV	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 AAQM data is being monitored and submitted to GPCB and MoEFCC. Attachment 06
	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 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 locations 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 Attachment 10
	The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.	Noted and Complied A leakage bag detector has been installed at VRM bag house. Mechanized 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 Attachment 02
	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.

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		Road sweeping machines are being engaged on regular basis for sweeping of all internal roads as part of good housekeeping measures.
	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.
	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 fly ash 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 plants and compressor rooms has been designed and implemented.
	Water quality monitoring and preservation	
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 th 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 a 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 wastewater 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 attached as Attachment 13
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 Environment (Protection) Act, 1986 and NABL accredited laboratories.	Noted
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	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

	to Regional office of MoEF&CC, Zonal office of SPCB along with six monthly report.	<p>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 wastewater 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.</p> <p>The copy of the STP water test report is attached as Attachment 06</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.	<p>Noted and Complied</p> <p>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.</p> <p>Photographs of STPs are attached in Attachment - 13</p>
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.	<p>Noted and Complied</p> <p>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.</p>
vii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	<p>Noted and Complied</p> <p>Attachment 14</p>

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 minimize 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.
III.	Noise monitoring and prevention	
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 the noise monitoring report is attached in Attachment 06.
ii.	The ambient noise levels should confirm to the standards prescribed under E(P)A Rules 1986 viz. 75 dB(A) during daytime and 70 dB(A) during nightttime	Noise control measure i.e. acoustic hoods, silencers and enclosures have been provided at all sources of noise generation so that noise levels in and around the plant remain below 75 dB(A) at daytime and 70 dB(A) at nightttime respectively. The copy of noise monitoring report is attached in Attachment 06
IV.	Energy Conservation measures	
i.	Provide solar power generation on roof tops of buildings, for solar light system for all common	Initiatives towards reduction power consumption have been taken.

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	areas, street lights parking around project area and maintain the same regularly.	
ii.	Provide the projects proponent for LED lights in their offices and residential areas.	LED lights have been provided at offices for plant lighting purposes to minimize the energy consumption.
iii.	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS Standard.	<p>Dahej Cement GU consumes waste from other industries as raw material for manufacturing of cement. The wastes of other industries being used at Dahej are:</p> <p>Fly ash from Power plant.</p> <p>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 process so as to produce high quality blended cement as per BIS std. For the period April -24 to September-24, Dry Ash - 118302 MT and Wet Ash - 7416.78 MT Fly Ash has been consumed for cement manufacturing.</p>
V.	Waste management	
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 a case basis depending on type and size of plant).	<p>Noted and complied.</p> <p>Kitchen waste is compost at site and used a manure in green belt development.</p>
VI.	Green Belt	
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	Noted and compliance assured.

	greenbelt shall inter alia cover the entire periphery of the plant.	<p>Plantation is being carried out in a phased manner.</p> <p>About 1000 trees have been planted during the 1st phase of plantation all along the plant boundary covering about 1 ha. Area.</p> <p>It is planned to complete 33% of the plant area before the end of the year 2025. Considering the 2nd & 3rd phase of plantation.</p> <p>Photographs of the existing green belt area are enclosed as Annexure-15 for your perusal.</p>
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programmed for reduction of the same including carbon sequestration including plantation.	Efforts are being taken for reduction of Green House Gases in terms of CO ₂ by installation of LED lights. The CO ₂ emissions inventory report is being generated on a monthly basis.
VII.	Public hearing and Human health issues	
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	<p>Noted and complied.</p> <p>Emergency preparedness plan, Disaster management plan and HIRA has been prepared and implemented.</p>
ii.	The PP shall provide Personal Protection Equipment (PPE) as per the norms of the Factory Act.	<p>Noted and complied.</p> <p>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.</p>
iii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<p>Not Applicable.</p> <p>No housing facility is proposed for construction labour within the proposed project area.</p> <p>However mobile toilets, drinking water facilities are being provided.</p> <p>Medical health care and crèche facilities are already running by Adani Foundation in a nearby village.</p>

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.
VIII.	Corporate Environment Responsibility	
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 Attachment 01
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 Attachment 12
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 Head. Attachment – 9
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 a competent authority. The year-wise funds	Noted and Complied Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company is in place.

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	<p>earmarked for environmental protection measures shall be kept in separate accounts and not to be diverted or 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>The detail of the CSR & CER activities along expenditure incurred out during the period is given as Attachment 09</p>
v.	<p>Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.</p>	<p>Noted and Compliance assured</p>
vi.	<p>All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.</p>	<p>CREP is being implemented. Compliance to the Corporate Responsibility for Environmental Protection (CREP) is enclosed as Attachments 8A</p>
IX.	Miscellaneous	
i.	<p>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.</p>	<ul style="list-style-type: none"> ● Complied ● Information to the public regarding EC issued by the SEIAA for this project is published on 14th May 2019 both in "INDIAN EXPRESS" (English) and "GUJARAT SAMACHAR" (Gujarati) ● Copy of advertisement is enclosed as Attachment-4
ii.	<p>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.</p>	<p>Noted and complied.</p>
iii.	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of</p>	<p>Noted and Complied</p>

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	monitored data on their website und update the same on half-yearly basis.	(This compliance report is from April-2024 to September-2024 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.	<p>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.</p> <p>Digital display board at factory main gate is provided to display the environment data for public domain.</p> <p>Ambient Air Quality monitoring is being carried out on a regular basis. Monitoring reports for April' 2024 to September' 2024 is enclosed Attachment – 6</p>
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.	<p>Noted and Complied</p> <p>(This compliance report is from April' 2024 to September' 2024 being submitted by ACIL for Dahej Cement Grinding Unit)</p>
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.	<p>Noted and Compliance assured.</p> <p>Operation has started from July'2023. Compliance assured from this FY.</p>
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.
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	<p>Noted and Compliance assured.</p> <p>The guidelines of GPCB are being adhered.</p>

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ix.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments 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 Attachment 03
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
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is 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	Noted

	orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	
xvi.	Any appeal against this EC 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
	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

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><u>Shri Jaydeepsinh Ramsinh Rana (Sarpanch Village: Dahej, Taluka : Vagara, District: Bharuch):-</u></p> <ul style="list-style-type: none"> 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. 	<p>We thank the representator and assure them that the relevant work will be carried out accordingly.</p>
<p><u>Shri Ishwarbhai Melabhai Gohil Village: Lakhigam, Taluka: Vagra, District: Bharuch):-</u></p> <ul style="list-style-type: none"> 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. Vacant my land or give a job to my son. In similar case others are getting job. I supply labour, I have not been offered work order, which is injustice to me. My son has studied MSW but still company is not giving the job. 	<ul style="list-style-type: none"> 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. 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. He will be given priority whenever there is a vacancy for MSW post.

	<ul style="list-style-type: none"> • Remarks: - 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.
<p><u>Shri Bhurabhai Shivabhai Gohil, Village: Lakhigam, Taluka: Vagra, District: Bharuch</u></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><u>Shri Rakshit Makwana Village: Lakhigam, Taluka: Vagra, District: Bharuch</u></p> <ul style="list-style-type: none"> • 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. • Land for sport ground should be allotted. 	<p>Remarks:-</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><u>Shri Gohil IshwarBhai NarsinhBhai Village: Lakhigam, Taluka: Vagra, District: Bharuch</u></p> <ul style="list-style-type: none"> • Company should be behave politely to the local residents when they visit company's office. A person like Bhagwanbhai master has died & his land is also acquired. Companies like RIL, GCPTCL, Adani etc give assurance for job but they don't actually offer. • 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. 	

<p><u>Shri. Bhavesh Gohil Village: Lakhigam, Taluka: Vagra, District: Bharuch</u></p> <ul style="list-style-type: none"> • How many land losers and local villagers have been given jobs in the projects earlier established by Adani Company? • 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? • Whether these teams are coming to villages? • 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. • In the situation accident/ mishap what should be done? How should be inform? 	<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><u>Shri Lakshman Sinh Gohil, Village Lakhigam, Taluka: Vagra, District: Bharuch</u></p> <ul style="list-style-type: none"> • 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 	<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>• <u>Shri Aahir Jayantibhai (Sarpanch) Village: Luvara, Taluka: Vagra District: Bharuch</u></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>Vilasben B Patel, Sarpanch, Village Jageshwar, Taluka: Vagra, District: Bharuch.</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>Shri Jayendrasinh Rana, Village: Dahej, Taluka: Vagra, District: Bharuch</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>• Remarks:-</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"> • The Regional officer stated that the details of Public Hearing is available on the website.
<ul style="list-style-type: none"> • <u>Shri Aahir Rahulkumar Lakshmanbhai Village:luvara, Taluka: Vagara,Dist: Bharuch</u> • 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. 	<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • <u>Manharbhai makwana - majiSarpanch, Village: Lakhigam, Taluka: Vagara, Dist: Bharuch</u> • I welcome the Adani Cementation Plant. We do not oppose if people are getting employment. • 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. • Steps should be taken for the students of primary school walking to the school from Navinagri. 	<ul style="list-style-type: none"> • Thank you so much. If we have the opportunities for employment, we will give information and prefer to be employed in the employment. • 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. • 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.
<ul style="list-style-type: none"> • <u>Shri NareshGohil, Vill: Lakhigam, Taluka: Vagara, Dist: Bharuch</u> • 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. • Ask to GIDC that will GIDC give its return if the land is gone in silo. We gave land 18 years ago 	<ul style="list-style-type: none"> • 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. • Remarks:- GIDC representative said that while the plot is allotted to GIDC, a list of company landlords is given.
<ul style="list-style-type: none"> • <u>Shri Narendrasinh Rana, Vill: Dahej, Taluka: Vagara, Dist: Bharuch</u> • 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 	<ul style="list-style-type: none"> •

<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><u>Shri Shraavan Shankarbhai Rathod Navinagri,</u> <u>Village:Lakhigam, Taluka: Vagara</u> <u>District: Bharuch</u></p> <ul style="list-style-type: none"> • The company has been made buildings, temples and water tanks, give net for Fisheries business in our village. Thanks to the company for this. 	<ul style="list-style-type: none"> •
<p><u>Shri Naresh. D. Gohil, Village:Lakhigam Taluka: Vagara, District: Bharuch</u></p> <ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • 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.
<p><u>Shri ParmarKrupali, Vill: Jolva,Ta.: Vagra</u> <u>Dist: Bharuch</u></p> <ul style="list-style-type: none"> • Today where ladies and youngsters in industrial areas are educated and are unemployed, this company has given us the employment. 	<ul style="list-style-type: none"> •
<p><u>Shri Sureshbhai Patel, Vill: Luvara,Tal: Vagra,</u> <u>Dist: Bharuch</u></p> <ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • The company will give the priority to the local people for the employment.
<p><u>Shri Badalbhai karsanbhai gohil Vill: Suva,Ta. Vagra, Dist: Bharuch</u></p> <ul style="list-style-type: none"> • 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? • The work should be done under the CSR and survey should be done in the Suva village. 	<ul style="list-style-type: none"> • 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. • Company currently works on the CSR activities in Suva village. Also, after suitable suggestions, steps will also be taken for providing houses.
<p><u>Shri Bhailalbhaigohil, Vill: Lakhigam</u> <u>Ta: Vagra, Dist: Bharuch</u></p> <ul style="list-style-type: none"> • Advertisement for the Recruitment for the company should be given in the local newspaper. For the employment recruitment, campus 	<ul style="list-style-type: none"> • 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.

<p>interviews should be conducted in the colleges of the Bharuch district. Gram panchayat should be informed about the same.</p>	
<p><u>Mrs. Nirmalaben Thakorbbhai Gohil Village: Lakhigam, Taluka: Vagra, District: Bharuch</u> 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"> • Answer Regarding Safety is mentioned above
<p>Shri Vijaysinh Rana , Village: Dahej, Taluka: Vagra, District: Bharuch 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"> •
<p>Ashwini Rana, Village: Dahej, Taluka: Vagra, District: Bharuch 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"> •
<p>Rakshaben Parmar, Village: Jageshwar, Taluka: Vagra, District: Bharuch 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"> •
<p>Rekhaben Kamleshbhai, Village: Jageshwar, Taluka: vagra, District: Bharuch 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"> •

THE INDIAN EXPRESS, TUESDAY, MAY 14, 2019

3 GUJARAT

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Public Information

State Level Environment Impact Assessment Authority (SEIAA), Gujarat, has granted Environmental Clearance (EC) for Stand Alone Cement Grinding Unit, Capacity 2.0 MMTPA of 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, Village: Dahej and Survey No. 125/P, 124/P of Village Lakhigam, Dahej Industrial Estate, Taluka: Vagra, District: Bharuch (Gujarat).

Salient features of the project are as under for the public information.

- **Reference:** Letter no SEIAA/GUJ/EC/3(b)/533/2019 dated 03.05.2019 of SEIAA, Gujarat
- **Technology:** Vertical Roller Mill / Roller Press Technology have been proposed for grinding.
- **Raw Material:** Clinker, Fly ash, Gypsum and Slag will be used for Cement manufacturing.
- **Water:** Fresh water requirement for the proposed project is 300KLD and will be provided by GIDC.
- **Cement:** PPC, PSC, OPC & PCC will be produced in the proposed project.
- **Compliance:** Compliance of EC conditions as per Environment (Protection) Act, 1986, Rules and MoEF&CC Notifications issued time to time will be done. The project proponent will submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to SEIAA, Gujarat.
- **Capital Cost:** Total estimated project cost is Rs. 556.26 Crores. Budget proposed for Environmental Protection Measures is estimated as Rs. 14.8 Crores (Capital) and Rs. 1.32 Crores (Annual). Budget proposed for implementation of CSR & CER activities is as Rs. 665 Lac & Rs. 275 Lac respectively.

As per Other Conditions number '67' of Environmental Clearance, copies of clearance letter is available with the Gujarat Pollution Control Board and may also be seen at the Website of SEIAA/SEAC/GPCB at: www.seiaa.gujarat.gov.in

Sd-
Authorised Signatory
Adani Cementation Limited

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

મંગળવાર, તા.૧૪ મે, ૨૦૧૯

ગુજરાત સમાચાર (વડોદરા આવૃત્તિ) ૧૫

બહાર માહિતી

સ્ટેટ લેવલ એન્વાયર્નમેન્ટ પ્રોજેક્ટ એસેસમેન્ટ ઓથોરિટી (એસ.ઈ.આઈ. ઓ.ઓ.), ગુજરાત દ્વારા અદાણી રિમેન્ડેશન લિમિટેડની સ્ટેડ ચલોન રિમેન્ટ ગ્રાઈન્ડિંગ પ્લાન્ટ માટે એન્વાયર્નમેન્ટ ક્લિયરન્સ (ઇ.સી) આપવામાં આવ્યું છે જેની ક્રમતા ૨.૦ એમ.ઓ.ટી.પી.એ. છે. સર્વેનં. 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, ગામ: દહેજ અને સર્વે નં. 125/P, 124/P ગામ: લખિગામ, દહેજ ઔદ્યોગિક ઝોન, તાલુકા: વાગરા, જિલ્લા: ભરૂચ (ગુજરાત).

પ્રોજેક્ટની મુખ્ય વાક્ષણિકતાઓની માહિતી આમ જનતાની જાણકારી માટે નીચે મુજબ છે:

- **સંદર્ભ:** એસ.ઈ.આઈ.ઓ.એ., ગુજરાતના પત્ર SEIAA/GUJ/EC/ 3(બી)/633/2019 તારીખ ૦૩.૦૫.૨૦૧૯
- **ટેકનોલોજી:** વર્ટિકલ રોલર મીલ / રોલર પ્રેસ ટેકનોલોજી માર્કમ દ્વારા ગ્રાઈન્ડીંગ કરવા માટે પ્રસ્તાવિત છે.
- **કાચો માલ:** ક્લિન્કર, સામ, જુદામ અને રહેગનો ઉપયોગ રિમેન્ટ ઉત્પાદન માટે કરવામાં આવશે.
- **પાણી:** સૂચિત પ્રોજેક્ટ માટે પાણીની જરૂરિયાત ૩૦૦ કિલો લિટર પ્રતી દિવસ છે, અને તે જી.આઈ.ડી.સી. દ્વારા પૂરું પાડવામાં આવશે.
- **રિમેન્ટ:** પ્રસ્તાવિત પ્રોજેક્ટમાં પી.બી.સી., પી.એસ.સી., ઓ.પી.સી. અને પી.સી.સી. પ્રકારની રિમેન્ટ બનાવવામાં આવશે.
- **અનુપાલન:** પર્યાવરણ (સંરક્ષણ) કાયદો, ૧૯૮૬ અને એમ.ઓ.ઇ.એફ અને સી.સી. શરતો અનુસાર ઇ.સી. શરતોનું પાલન કરવામાં આવશે. પ્રોજેક્ટ પ્રસ્તાવકર્તા, ગુજરાત માટે પર્યાવરણીય સલામતીના અમલીકરણની સ્થિતિ પર છ માસિક પાલન અહેવાલ જુદાંજુદાં ને રજૂ કરશે.

- **મૂડી ખર્ચ:** કુલ અનુમાનિત પ્રોજેક્ટ ખર્ચ રૂ. ૫૫૬.૨૬ કરોડ છે. પર્યાવરણીય સુરક્ષા પગલાં હેતુ આશરે રૂ. ૧૪.૮ કરોડ (મૂડી) અને રૂ. ૧.૩૨ કરોડ (વાર્ષિક)નું પ્રોજેક્ટ બજેટમાં પ્રાવધાન કરવામાં આવેલ છે. સીએસઆર અને સીઈઆર પ્રવૃત્તિઓના અમલીકરણ માટે અનુક્રમે બજેટ રૂ. ૬૬૫ લાખ, રૂ. ૨૭૫ લાખનું પ્રાવધાન કરવામાં આવેલ છે.

એન્વાયર્નમેન્ટ ક્લિયરન્સની અધ્ય શરતો સંખ્યા '૬૭', ક્લિયરન્સ લેટરની નકલો ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ સાથે ઉપલબ્ધ છે જે SEIAA / SEAC / GPCB ની વેબસાઈટ www.seiaa.gujarat.gov.in પર પણ ઓઈ જકાય છે.

એસડી/-
અધિકૃત હસ્તાક્ષર
અદાણી રિમેન્ડેશન લિમિટેડ

Information to the
public regarding EC
issued by the SEIAA for
this project is published
on 14th May 2019 in
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(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 - Amendment)
CCA- AMENDMENT NO: AH - 132496

NO: GPCB/BRCH/CCA- 1671/ID-82422/

DT: /03/2024

To,

M/s. Adani Cement Industries Ltd.

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.

SUB: Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules.

REF: (1) Your application No. 292013 dated 06/12/2023.

(2) EC to CTE No.68492dated:02/03/2024

(3) CCA No. AWH - 126677 dated: 22/06/2023 (CCA-Fresh)

This has reference to the CCA order No: AWH-126677, issued vide letter no. GPCB/BRCH/ CCA-1671/ID-82422/745621 dated 22/06/2023 under the provisions of the various Environmental Act/ Rules, which stands amended as under.

The Validity of this order will be up to 09/03/2028.

1. The list of proposed products to be manufactured shall be as follows:

- There shall be no change in Products and its production quantity.

2. Specific conditions:

a) Unit shall comply with all conditions of EC dated 03/05/2019 and 02/11/2023.

b) Unit shall strictly comply with submitted notarized undertaking dated 20/01/2024 in letter and spirit.

c) Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.

d) Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.

e) Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.

f) Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.

g) Unit shall strictly comply with guidelines of CPCB for Co-processing of Hazardous and Other Waste in Cement Plant as per H & OW (M & TBM) Rules, 2016.

3. CONDITION UNDER THE WATER ACT:

3.1 There shall be no change in water consumption, wastewater generation and mode of disposal.

4. CONDITIONS UNDER THE AIR ACT:

4.1 The condition No. 4.1 for Fuel Consumption under Air Act of the CCA order No: AWH-126677, issued vide letter no. GPCB/BRCH/ CCA-1671/ID-82422/745621 dated 22/06/2023 is amended and shall now be read as under.

Sr. No.	Name of fuel	Quantity		
		Existing	Proposed	Total
1	Diesel	600 Lit/Year	5 KLD	5 KLD
2	LNG	--		
3	Bio Diesel	--		
4	Coal	--	100 MT/Day	100 MT/Day

4.2 The condition No. 4.2 for Flue gas stacks under Air Act of the CCA order No: AWH-126677, issued vide letter no. GPCB/BRCH/ CCA-1671/ID-82422/745621 dated 22/06/2023 is amended and shall now be read as under.

Stack No.	Stack attached to	Stack Height	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
Existing					
1	D.G. Set (Cap: 500 KVA)	18 m	--	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
Proposed					
1	Hot Air Generator (Cap: 100 Lac Kcal/Hr)	70 m	Pulse Jet Type Bag House	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm

4.3 The condition No. 4.3 for Process gas stacks under Air Act of the CCA order No: AWH-126677, issued vide letter no. GPCB/BRCH/ CCA-1671/ID-82422/745621 dated 22/06/2023 is amended and shall now be read as under.

Stack No.	Stack attached to	Stack Height	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
1	Packing Plant (1 No.)(Existing)	50 m	Bag Filter	PM SO ₂ NO _x	150 mg/Nm ³ 40 mg/Nm ³ 25 mg/Nm ³
2	All Conveyor belts and transfer points (6 Nos.)(Existing)	30 m	Bag Filter		
3	All Raw material (1 No.) and finished product silos (2 Nos.)(Existing)	30 m	Bag Filter		



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

4	Cement Mill (1 No.)(Existing)	70 m	Bag Filter		
1	Hot Air Generator (Proposed)		Pulse Jet Type Bag House	PM SO ₂ NO _x	150 mg/Nm ³ 40 mg/Nm ³ 25 mg/Nm ³

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

Sr. No.	Parameters	Permissible Limit (microgram /m ³)	
		Annual	24 Hours Average
1.	Particulate Matter (PM ₁₀)	60	100
2.	Particulate Matter (PM _{2.5})	40	60
3.	Sulphur Dioxide (SO ₂)	50	80
4.	Nitrogen Dioxide (NO ₂)	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 in condition as above.

5 CONDITIONS UNDER HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016

5.1 Unit shall comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016.

5.2 The condition No. 6.2 under authorization for Hazardous & other wastes of the CCA order No: AWH-126677, issued vide letter no. GPCB/BRCH/ CCA-1671/ID-82422/745621 dated 22/06/2023 is amended and shall now be read as under.

Sr. No.	Name of Haz. Waste	Category Number	Quantity in MT/Year			Facility
			Exi.	Pro.	Total	
1	Used Oil	5.1	0.1	--	0.1	Collection, Storage and Reuse or Transportation and send to Registered Recycler/ Refiner.
2	Cotton Rags	33.2	0.3	--	0.3	Collection, Storage, Transportation and send to CHWIF.
3	Discarded Containers	33.1	1000 Nos./Year	--	1000 Nos./Year	Collection, Storage, Detoxification/ Decontamination, Reuse OR Transportation and send to authorized Decontamination facility.

4	Gypsum	35.3, 26.1, 38.1,	--	0.3 MMT/Year	0.3 MMT/Year	Reception, Collection, Storage, Transportation and utilize for Cement manufacturing as per CPCB guidelines for co-processing of Hazardous wastes.
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- 6 All other conditions of the CCA order No: AWH-126677, issued vide letter no. GPCB/BRCH/ CCA-1671/ID-82422/745621 dated 22/06/2023 shall remain unchanged.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD



(M. R. Macwana)
UNIT HEAD-BHARUCH

Outward No:786132,14/03/2024



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.

[Handwritten 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



GUJARAT POLLUTION CONTROL BOARD

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

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 30th 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 ₂ NO _x	150 mg/Nm ³ 100 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 ₂ NO _x	150 mg/Nm ³ 100 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		

~~Signature~~

- 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 ³)	
		Annual	24 Hours Average
1.	Particulate Matter (PM ₁₀)	60	100
2.	Particulate Matter (PM _{2.5})	40	60
3.	Oxides of Sulphur (SO _x)	50	80
4.	Oxides of Nitrogen (NO _x)	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;

- 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 30th for the period ensuring 31st 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 14th 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


(IRFAN 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-68492

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

To,

M/s. Adani Cement Industries 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. 290730 dated 02/11/2023

(1) Environment Clearance issued by State Authority vide their letter no. SIA/GJ/IND/302856/2023 Dated
20/10/2023

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


K.N. Vaghamsi
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.

**Environmental Monitoring
(April - 2024 to September - 2024)**



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 : royalenvironment@live.com ■ admin@royalconsultancy.com

REAS/ACIL/2024-25/02-02

Date: 01/05/2024

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,
Tal. : Vagra,Dist. : Bharuch.

Kind attn.: Mr. Kalubhai Goyani

Sub.: Report of Stack Emission Analysis, Waste water analysis.

Ref.: Our visit at AWL Plant is on April 2024.

Dear Sir,

Please find enclosed following analysis report in one copy:

1. Report of Waste Water Analysis	01 Samples
2. Report of Stack Emission Monitoring	09 Locations
3. Report of National Ambient Air Quality Monitoring	40 Locations
4. Report of Drinking Water Analysis	01 Samples
5. Report of Ambient Noise Level Monitoring	08 Samples
6. Report of Work Place Noise Level Monitoring	06 Samples
7. Report of Fugitive Emission	05 Samples

Thanking you,

Yours faithfully,

Royal Environment Auditing & Consultancy Service,

Digvijay Jadeja

Encl: As above.





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

Ref. No. : 802/04/2024-25

Date: 01/05/2024

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	---	25/04/2024
02	Time of sampling	Hr.	11:45
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	80
08	Ambient Temperature	°C	31
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	22
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024.



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Ref. No. : 803/04/2024-25

Date: 01/05/2024

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	---	25/04/2024
02	Time of sampling	Hr.	12:30
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	60
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	15
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 804/04/2024-25

Date: 01/05/2024

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	---	25/04/2024
02	Time of sampling	Hr.	14:00
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	62
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	38
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024



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Ref. No. : 805/04/2024-25

Date: 01/05/2024

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	---	25/04/2024
02	Time of sampling	Hr.	14:30
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	67
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.8
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	28
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 806/04/2024-25

Date: 01/05/2024

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	---	09/04/2024
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	68
08	Ambient Temperature	°C	32
09	Average Velocity of Flue Gases	m/Sec.	6.8
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	35
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on 14/01/2024



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Ref. No. : 807/04/2024-25

Date: 01/05/2024

STACK EMISSION MONITORING ANALYSIS

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

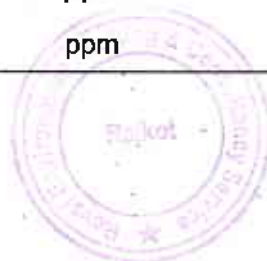
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of
Village: Dahej in Dahej Industrial Estate,
Tal. : Vagra,Dist. : Bharuch.

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

Sr. No.	Particulars	Unit	Stack- 6
01	Date of Sampling	---	25/04/2024
02	Time of sampling	Hr.	15:00
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	32
09	Average Velocity of Flue Gases	m/Sec.	7.3
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	41
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024 .



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Ref. No. : 808/04/2024-25

Date: 01/05/2024

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	---	09/04/2024
02	Time of sampling	Hr.	14:00
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	72
08	Ambient Temperature	°C	32
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	26
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 809/04/2024-25

Date: 01/05/2024

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	---	09/04/2024
02	Time of sampling	Hr.	14:30
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	63
08	Ambient Temperature	°C	32
09	Average Velocity of Flue Gases	m/Sec.	7.8
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	32
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



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Ref. No. : 810/04/2024-25

Date: 01/05/2024

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	---	25/04/2024	25/04/2024
02	Time of sampling	Hr.	14:45	15:30
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	66	68
08	Ambient Temperature	°C	32	33
09	Average Velocity of Flue Gases	m/Sec.	7.8	8.2
10	Isokinetic flow rate for P.M. Sampling	LPM	22	23
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	150
13	Measured Concentration of PM.	mg/Nm ³	26	28
14	Permissible limits for SO ₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	0.0	0.0
16	Permissible limits for NO _x	ppm	50	50
17	Measured Concentration of NO _x	ppm	0.0	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024



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Ref. No. : 811/04/2024-25

Date: 01/05/2024

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 :25/04/2024

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	82.2	74.2
02.	Cement Mill	81.1	73.1
03.	Fly Ash Compressor Room	80.1	72.3

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 : 01/01/2024

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Ref. No. : 812/04/2024-25

Date: 01/05/2024

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 :25/04/2024

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
Permissible Limits		75.0	70.0
01.	Security Main gate (East)	69.1	62.1
02.	Packing plant (South)	70.3	64.1
03.	Cement mill (North)	71.1	65.3
04.	Clinker Silo (West)	73.2	64.2

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 : 01/01/2024



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

Ref. No.: 813/04/2023-24

Date: 01/05/2024

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	—	25/04/2024	25/04/2024	25/04/2024	25/04/2024	25/04/2024
03.	Time of sampling	Hr	09:30	10:30	11:30	12:30	12:00
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	4 to 22	2 to 15	2 to 24	4 to 21
07.	Flow rate during sampling	m ³ /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 ³	5000	5000	5000	5000	5000
10.	Measured Concentration of SPM	µg/m ³	3142	4232	4721	4802	4832

Instrument used : Envirotech make (HVS), Model No. APM-430BL, Gaseous Sampling Kit,
Calibration done on : 01/01/2024

* Permissible limits of fugitive emission based on CPCB Guidelines.

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

Ref. No. : 814/04/2024-25

Date: 01/05/2024

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 :09/04/2024

Sr. No.	Parameters	Unit	Permissible Limit*	STP O/L
01.	pH	mg/l	6.5-9	7.6
01.	Total Suspended Solids	mg/l	<100	49
02.	B.O.D. (3 day's at 27 °C)	mg/l	<30	25.1
03.	Fecal Coliform	MPN	<1000MPN/100ml	0.5

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

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Ph.: +91 9099819954 ■ E-mail : royalsenvironment@live.com ■ admin@royalconsultancy.com

Ref. No: 815/04/2024-25

Date: 01/05/2024

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.

Source of Sample : Drinking Water (Admin Office)

Date of Sampling :09/04/2024

Sr. No.	Parameters	Unit	Acceptable Limits(*)	Results
01.	pH	pH Units	6.5 to 8.5	7.1
02.	Colour	Hazen	5	Colourless
03.	Turbidity	NTU	1	< 1.0
04.	Total Dissolved Solids	mg/l	500	120
05.	Total Suspended Solids	mg/l	---	12
06.	Total Solids	mg/l	---	132
07.	Chlorides	mg/l	250	51.9
08.	Sulphates	mg/l	200	12.4
09.	Total Hardness (As CaCO ₃)	mg/l	200	67.2
10.	Calcium (as Ca)	mg/l	75	21.5
11.	Magnesium (as Mg)	mg/l	30	6.1
12.	Total Alkalinity	mg/l	200	31
13.	Nitrates	mg/l	45	4.1
14.	Flouride	mg/l	1.0	0.05
15.	E-Coli	MPN/100ml	Absent	Absent

(*) Acceptable Limit as per IS 10500 : 2012, Drinking Water Specification

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Ref. No. B16/04/2024-25

Date: 01/05/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : APRIL 2024

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	Nr. Main Security Main gate (East)											
			1	2	3	4	5	6	7	8	9	10		
01.	No. of Week	—												
02.	Date & Time Starting of Monitoring	—	01/04/2024 11:45	02/04/2024 12:00	08/04/2024 12:15	09/04/2024 12:30	15/04/2024 12:00	16/04/2024 12:15	24/04/2024 11:30	25/04/2024 11:45	29/04/2024 12:15	30/04/2024 12:30		
03.	Date & Time - Ending of Monitoring	—	02/04/2024 11:45	03/04/2024 12:00	09/04/2024 12:15	10/04/2024 12:30	16/04/2024 12:00	17/04/2024 12:15	25/04/2024 11:30	26/04/2024 11:45	30/04/2024 12:15	01/05/2024 12:30		
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440		
05.	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE	NE	SE		
06.	Wind Speed Velocity	Km/Hr	1 to 18	1 to 15	2 to 17	4 to 22	5 to 20	4 to 20	2 to 13	1 to 12	3 to 18	3 to 12		
07.	Average Flow Rate For PM2.5	m ³ /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 ³ /Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21	1.16	1.11		
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 ³	60	60	60	60	60	60	60	60	60	60		
11.	Measured Concentration of PM2.5	µg/m ³	32.2	34.1	36.2	29.1	31.1	32.1	36.2	41.2	39.2	44.1		
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100	100	100		
13.	Measured Concentration of PM10	µg/m ³	63.2	65.1	62.2	69.1	72.1	59.2	73.1	65.2	67.1	78.1		
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80		
15.	Measured Concentration of SO ₂	µg/m ³	13.1	14.2	16.1	15.1	16.3	17.1	11.2	15.2	16.2	18.2		
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80		
17.	Measured Concentration of NO ₂	µg/m ³	26.1	24.2	21.2	20.3	19.2	25.2	22.3	25.1	20.2	21.1		

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

Calibration Done on: 13/01/2024

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Ref. No. : 817/04/2023-24

Date: 01/05/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : APRIL 2024

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, Disl. : Bharuch.

S. No.	Particulars	Unit	Packing Plant (South)											
			1	2	3	4	5	6	7	8	9	10		
01.	No. of Week	—												
02	Date & Time Starting of Monitoring	—	01/04/2024 11:45	02/04/2024 12:00	08/04/2024 12:15	09/04/2024 12:30	15/04/2024 12:00	16/04/2024 12:15	24/04/2024 11:30	25/04/2024 11:45	29/04/2024 12:15	30/04/2024 12:30		
03	Date & Time - Ending of Monitoring	—	02/04/2024 11:45	03/04/2024 12:00	09/04/2024 12:15	10/04/2024 12:30	16/04/2024 12:00	17/04/2024 12:15	25/04/2024 11:30	26/04/2024 11:45	30/04/2024 12:15	01/05/2024 12:30		
04	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440		
05	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE	NE	SE		
06	Wind Speed Velocity	Km/Hr	1 to 18	1 to 15	2 to 17	4 to 22	5 to 20	4 to 20	2 to 13	1 to 12	3 to 18	3 to 12		
07.	Average Flow Rate For PM2.5	m ³ /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 ³ /Min.	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21	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	0.2	0.2		
10.	Permissible Limits of PM2.5 *	µg/m ³	60	60	60	60	60	60	60	60	60	60		
11	Measured Concentration of PM2.5	µg/m ³	42.2	41.3	46.2	52.2	39.2	35.1	46.1	48.1	52.1	38.2		
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100	100	100		
13	Measured Concentration of PM10	µg/m ³	62.2	68.1	69.2	72.1	58.2	62.2	64.1	70.2	68.2	72.1		
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80		
15	Measured Concentration of SO ₂	µg/m ³	15.2	11.3	14.1	18.2	12.2	16.3	13.1	16.1	15.2	12.1		
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80		
17	Measured Concentration of NO ₂	µg/m ³	21.1	24.2	26.3	23.1	20.3	19.1	22.2	23.3	27.2	24.3		

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

Calibration Done on : 13/01/2024

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Ref No : 818/04/2024-25

Date: 01/05/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH :APRIL 2024

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	
01.	No. of Week	—										
02	Date & Time Starting of Monitoring	—	01/04/2024 11:45	02/04/2024 12:00	08/04/2024 12:15	09/04/2024 12:30	15/04/2024 12:00	16/04/2024 12:15	24/04/2024 11:30	25/04/2024 11:45	29/04/2024 12:15	30/04/2024 12:30
03	Date & Time - Ending of Monitoring	—	02/04/2024 11:45	03/04/2024 12:00	09/04/2024 12:15	10/04/2024 12:30	16/04/2024 12:00	17/04/2024 12:15	25/04/2024 11:30	26/04/2024 11:45	30/04/2024 12:15	01/05/2024 12:30
04	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE	NE	SE
06	Wind Speed Velocity	Km/Hr	1 to 18	1 to 15	2 to 17	4 to 22	5 to 20	4 to 20	2 to 13	1 to 12	3 to 18	3 to 12
07	Average Flow Rate For PM2.5	m ³ /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 ³ /Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21	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	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m ³	60	60	60	60	60	60	60	60	60	60
11	Measured Concentration of PM2.5	µg/m ³	38.2	42.2	48.1	52.1	39.1	46.1	42.3	38.3	41.1	32.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100	100	100
13	Measured Concentration of PM10	µg/m ³	59.1	63.1	64.2	72.1	78.2	68.1	71.2	62.3	64.1	71.2
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
15	Measured Concentration of SO ₂	µg/m ³	16.2	12.1	11.1	16.3	15.1	14.3	17.1	15.2	14.2	13.1
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
17	Measured Concentration of NO ₂	µg/m ³	26.1	22.1	25.3	22.3	20.1	21.1	24.2	23.2	21.2	20.1

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

Calibration Done on: 13/01/2024

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Ref. No : 819/04/2024-25

Date: 01/05/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : APRIL 2024

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)									
			1		2		3		4		5	
01.	No. of Week	-										
02.	Date & Time Starting of Monitoring	-	01/04/2024 11:45	02/04/2024 12:00	08/04/2024 12:15	09/04/2024 12:30	15/04/2024 12:00	16/04/2024 12:15	24/04/2024 11:30	25/04/2024 11:45	29/04/2024 12:15	30/04/2024 12:30
03.	Date & Time - Ending of Monitoring	-	02/04/2024 11:45	03/04/2024 12:00	09/04/2024 12:15	10/04/2024 12:30	16/04/2024 12:00	17/04/2024 12:15	25/04/2024 11:30	26/04/2024 11:45	30/04/2024 12:15	01/05/2024 12:30
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	-	NE	NE	SE	SE	NE	SE	SE	SE	NE	SE
06.	Wind Speed Velocity	KmHr	1 to 18	1 to 15	2 to 17	4 to 22	5 to 20	4 to 20	2 to 13	1 to 12	3 to 18	3 to 12
07.	Average Flow Rate For PM2.5	m3Hr	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	m3Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21	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	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m ³	60	60	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	36.1	42.1	45.3	52.1	38.1	32.1	35.1	41.2	44.1	46.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	62.1	59.1	63.1	70.2	64.1	52.1	68.1	69.2	71.2	64.2
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	13.1	14.2	16.2	17.1	12.1	16.2	17.1	14.2	18.1	15.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	22.1	24.2	26.2	23.1	20.2	24.1	22.2	23.1	24.2	21.2

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

Calibration Done on : 13/01/2024

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REAS/ACIL/2024-25/05-03

Date: 31/05/2024

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,
Tal. : Vagra,Dist. : Bharuch.

Kind attn.: Mr. Kalubhai Goyani

Sub.: Report of Stack Emission Analysis, Waste water analysis.

Ref.: Our visit at ACIL Plant is on **May 2024.**

Dear Sir,

Please find enclosed following analysis report in one copy:

1. Report of Waste Water Analysis	:	01 Samples
2. Report of Stack Emission Monitoring	:	10 Locations
3. Report of National Ambient Air Quality Monitoring	:	32 Locations
4. Report of Drinking Water Analysis	:	01 Samples
5. Report of Ambient Noise Level Monitoring	:	08 Samples
6. Report of Work Place Noise Level Monitoring	:	06 Samples
7. Report of Fugitive Emission	:	05 Samples

Thanking you,

Yours faithfully,

Royal Environment Auditing & Consultancy Service,

Digvijay Jadeja

Encl: As above.





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Ref. No. : 902/05/2024-25

Date: 31/05/2024

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	---	29/05/2024
02	Time of sampling	Hr.	11:30
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	82
08	Ambient Temperature	°C	32
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	25
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



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Ref. No. : 903/05/2024-25

Date: 31/05/2024

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	---	29-05-2024
02	Time of sampling	Hr.	11:45
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	61
08	Ambient Temperature	°C	32
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/Nm³	150
13	Measured Concentration of PM.	mg/Nm ³	19
14	Permissible limits for SO₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO_x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



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Ref. No. : 904/05/2024-25

Date: 31/05/2024

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	---	29-05-2024
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	65
08	Ambient Temperature	°C	32
09	Average Velocity of Flue Gases	m/Sec.	7.3
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	42
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



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Ref. No. : 905/05/2024-25

Date: 31/05/2024

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	---	29-05-2024
02	Time of sampling	Hr.	12:30
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	62
08	Ambient Temperature	°C	32
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	32
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



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Ref. No. : 906/05/2024-25

Date: 31/05/2024

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	---	29-05-2024
02	Time of sampling	Hr.	14:00
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	61
08	Ambient Temperature	°C	33
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	41
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



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Ref. No. : 907/05/2024-25

Date: 31/05/2024

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	---	29-05-2024
02	Time of sampling	Hr.	14:45
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	66
08	Ambient Temperature	°C	30
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	45
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 908/05/2024-25

Date: 31/05/2024

STACK EMISSION MONITORING ANALYSIS

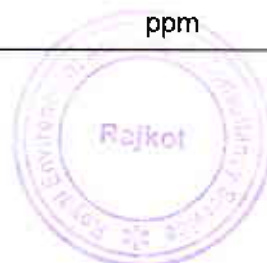
Name of Company : M/s. Adani Cement Industries Limited,
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of
Village: Dahej in Dahej Industrial Estate,
Tal. : Vagra,Dist. : Bharuch.

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

Sr. No.	Particulars	Unit	Stack- 7
01	Date of Sampling	---	29-05-2024
02	Time of sampling	Hr.	15:00
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	70
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.5
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	32
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



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Ref. No. : 909/05/2024-25

Date: 31/05/2024

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	---	29-05-2024
02	Time of sampling	Hr.	14:45
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	67
08	Ambient Temperature	°C	32
09	Average Velocity of Flue Gases	m/Sec.	8.1
10	Isokinetic flow rate for P.M. Sampling	LPM	23
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm ³	45
14	Permissible limits for SO₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO_x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



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Ref. No. : 910/05/2024-25

Date: 31/05/2024

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	---	29-05-2024	29-05-2024
02	Time of sampling	Hr.	15:45	16:30
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	62	68
08	Ambient Temperature	°C	31	34
09	Average Velocity of Flue Gases	m/Sec.	7.5	8.0
10	Isokinetic flow rate for P.M. Sampling	LPM	22	23
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	150
13	Measured Concentration of PM.	mg/Nm ³	29	34
14	Permissible limits for SO ₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	0.0	0.0
16	Permissible limits for NO _x	ppm	50	50
17	Measured Concentration of NO _x	ppm	0.0	0.0

Instruments Used : Ecotech Stack Kit model No ESS - 100

Calibration done on : 14/01/2024

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Ref. No. : 911/05/2024-25

Date: 31/05/2024

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 :29/05/2024

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	83.6	75.8
02.	Cement Mill	82.6	74.8
03.	Fly Ash Compressor Room	81.5	73.6

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 : 17/05/2024

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Ref. No. : 912/05/2024-25

Date: 31/05/2024

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 :29/05/2024

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
Permissible Limits		75.0	70.0
01.	Security Main gate (East)	70.6	63.9
02.	Packing plant (South)	71.4	65.8
03.	Cement mill (North)	72.3	66.8
04.	Clinker Silo (West)	74.8	65.8

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 : 17/05/2024

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Ref. No.: 913/05/2024-25

Date: 31/05/2024

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	---	29/05/2024	29/05/2024	29/05/2024	29/05/2024	29/05/2024
03.	Time of sampling	Hr	09:30	10:30	11:30	12:30	12:00
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	4 to 20	2 to 15	3 to 24	4 to 21
07.	Flow rate during sampling	m ³ /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 ³	5000	5000	5000	5000	5000
10.	Measured Concentration of SPM	µg/m ³	3256	4125	4666	4712	4369

Instrument used : Envirotech make (HVS), Model No. APM-430BL, Gaseous Sampling Kit,
Calibration done on : 01/01/2024

* Permissible limits of fugitive emission based on CPCB Guidelines.



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Ref. No. : 914/05/2024-25

Date: 17/05/2024

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 :13/05/2024

Sr. No.	Parameters	Unit	Permissible Limit*	STP O/L
01.	pH	mg/l	6.5-9	7.9
01.	Total Suspended Solids	mg/l	<100	50
02.	B.O.D. (3 day's at 27 °C)	mg/l	<30	25.9
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: 915/05/2024-25

Date: 17/05/2024

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.

Source of Sample : Drinking Water (Admin Office)
Date of Sampling :13/05/2024

Sr. No.	Parameters	Unit	Acceptable Limits(*)	Results
01.	pH	pH Units	6.5 to 8.5	7.5
02.	Colour	Hazen	5	Colourless
03.	Turbidity	NTU	1	< 1.0
04.	Total Dissolved Solids	mg/l	500	125
05.	Total Suspended Solids	mg/l	---	13
06.	Total Solids	mg/l	---	140
07.	Chlorides	mg/l	250	52
08.	Sulphates	mg/l	200	12.9
09.	Total Hardness (As CaCO ₃)	mg/l	200	67.9
10.	Calcium (as Ca)	mg/l	75	21.9
11.	Magnesium (as Mg)	mg/l	30	6.7
12.	Total Alkalinity	mg/l	200	32
13.	Nitrates	mg/l	45	4.5
14.	Flouride	mg/l	1.0	0.06
15.	E-Coli	MPN/100ml	Absent	Absent

(*) Acceptable Limit as per IS 10500 : 2012, Drinking Water Specification

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Ref. No. : 916/05/2024-25

Date: 31/05/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : MAY 2024

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	Nr. Main Security Main gate (East)							
			1		2		3		4	
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	06/05/2024 08:45	07/05/2024 09:00	13/05/2024 09:15	14/05/2024 09:30	20/05/2024 09:45	21/05/2024 10:00	27/05/2024 10:45	28/05/2024 11:00
03.	Date & Time - Ending of Monitoring	---	07/05/2024 08:45	08/05/2024 09:00	14/05/2024 09:15	15/05/2024 09:30	21/05/2024 09:45	22/05/2024 10:00	28/05/2024 10:45	29/05/2024 11:00
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr	2 to 13	1 to 13	2 to 12	2 to 16	3 to 16	1 to 16	3 to 15	3 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	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	31.5	33.6	35.9	28.5	30.6	33.6	35.8	40.5
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	64.8	66.8	63.8	70.5	73.6	62.8	74.8	68.0
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	12.6	13.5	15.8	14.5	15.6	16.8	12.5	14.5
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	25.3	23.6	20.5	19.5	18.6	24.5	21.6	23.5

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

Calibration Done on : 13/01/2024



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Ref. No. : 917/05/2024-25

Date: 31/05/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : MAY 2024

Name of company : M/s. Adani Cement Industries Limited,
Plot No.135/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)							
			1		2		3		4	
01.	No. of Week	--								
02.	Date & Time Starting of Monitoring	--	06/05/2024 09:00	07/05/2024 09:10	13/05/2024 09:30	14/05/2024 09:40	20/05/2024 10:00	21/05/2024 10:10	27/05/2024 11:15	28/05/2024 11:30
03.	Date & Time - Ending of Monitoring	--	07/05/2024 09:00	08/05/2024 09:10	14/05/2024 09:30	15/05/2024 09:40	21/05/2024 10:00	22/05/2024 10:10	28/05/2024 11:15	29/05/2024 11:30
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	--	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr.	2 to 13	1 to 13	2 to 12	2 to 16	3 to 16	1 to 16	3 to 15	3 to 14
07.	Average Flow Rate For PM2.5	m ³ /Hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min.	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	41.5	40.3	45.8	51.6	40.6	36.8	45.8	49.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	63.8	62.5	70.5	73.5	59.3	63.8	65.8	71.6
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	14.5	12.3	13.6	17.5	13.5	15.1	16.2	15.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	20.3	23.6	25.1	22.4	19.6	18.2	20.3	21.8

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

Calibration Done on : 13/01/2024



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Ref. No.: 918/05/2024-25

Date: 31/05/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH :MAY 2024

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	---	06/05/2024 09:15	07/05/2024 09:25	13/05/2024 09:45	14/05/2024 09:55	20/05/2024 10:15	21/05/2024 10:25	27/05/2024 12:15	28/05/2024 12:30
03.	Date & Time - Ending of Monitoring	---	07/05/2024 09:15	08/05/2024 09:25	14/05/2024 09:45	15/05/2024 09:55	21/05/2024 10:15	22/05/2024 10:25	28/05/2024 12:15	29/05/2024 12:30
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr.	2 to 13	1 to 13	2 to 12	2 to 16	3 to 16	1 to 16	3 to 15	3 to 14
07.	Average Flow Rate For PM2.5	m ³ /Hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min.	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	37.5	41.6	47.5	51.6	40.2	47.5	43.5	39.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	60.5	64.8	65.8	71.5	75.8	69.5	70.2	65.5
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	15.2	11.5	10.6	15.8	14.5	13.5	16.5	14.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	25.3	21.5	24.5	23.6	20.9	23.5	24.5	25.9

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

Calibration Done on : 13/01/2024



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Ref No : 919/05/2024-25

Date: 31/05/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : MAY 2024

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)							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	06/05/2024 12:00	07/05/2024 12:15	13/05/2024 12:30	14/05/2024 12:45	20/05/2024 13:00	21/05/2024 13:15	27/05/2024 13:15	28/05/2024 13:30
03.	Date & Time - Ending of Monitoring	---	07/05/2024 12:00	08/05/2024 12:15	14/05/2024 12:30	15/05/2024 12:45	21/05/2024 13:00	22/05/2024 13:15	28/05/2024 13:15	29/05/2024 13:30
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr	2 to 13	1 to 13	2 to 12	2 to 16	3 to 16	1 to 16	3 to 15	3 to 14
07.	Average Flow Rate For PM2.5	m ³ /Hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	35.2	41.6	44.8	51.3	39.6	33.8	36.8	42.6
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	61.5	58.3	62.8	69.2	63.5	51.8	67.5	68.2
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	12.6	13.5	15.2	16.2	11.5	15.4	16.5	13.5
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	21.4	23.6	25.4	22.3	21.6	23.6	24.8	22.5

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

Calibration Done on : 13/01/2024

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REAS/ACIL/2024-25/06-01

Date: 01/07/2024

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,
Tal. : Vagra, Dist. : Bharuch.

Kind attn.: Mr. Kalubhai Goyani

Sub.: Report of Stack Emission Analysis, Waste water analysis.

Ref.: Our visit at AWL Plant is on **June 2024.**

Dear Sir,

Please find enclosed following analysis report in one copy:

1. Report of Waste Water Analysis	:	01 Samples
2. Report of Stack Emission Monitoring	:	09 Locations
3. Report of National Ambient Air Quality Monitoring	:	32 Locations
4. Report of Drinking Water Analysis	:	01 Samples
5. Report of Ambient Noise Level Monitoring	:	08 Samples
6. Report of Work Place Noise Level Monitoring	:	06 Samples
7. Report of Fugitive Emission	:	05 Samples

Thanking you,

Yours faithfully,

Royal Environment Auditing & Consultancy Service,

Digvijay Jadeja

Encl: As above.





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Ref. No. : 102/06/2024-25

Date: 01/07/2024

STACK EMISSION MONITORING ANALYSIS

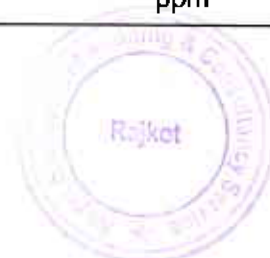
Name of Company : M/s. Adani Cement Industries Limited,
Plot No.136/P to 141/P, 144/P, 145/P, 151/P to 155/P,
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of
Village: Dahej in Dahej Industrial Estate,
Tal. : Vagra, Dist. : Bharuch.

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

Sr. No.	Particulars	Unit	Stack- 1
01	Date of Sampling	---	27/06/2024
02	Time of sampling	Hr.	11:15
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	80
08	Ambient Temperature	°C	30
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	24
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



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Ref. No. : 103/06/2024-25

Date: 01/07/2024

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	---	18-06-2024
02	Time of sampling	Hr.	11:45
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	60
08	Ambient Temperature	°C	31
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	18
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 104/06/2024-25

Date: 01/07/2024

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	---	27/06/2024
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	62
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.1
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	40
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 105/06/2024-25

Date: 01/07/2024

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	---	27/06/2024
02	Time of sampling	Hr.	12:30
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	63
08	Ambient Temperature	°C	32
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	30
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024




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Ref. No. : 106/06/2024-25

Date: 01/07/2024

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	---	27/06/2024
02	Time of sampling	Hr.	14:00
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	63
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	6.9
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	43
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 107/06/2024-25

Date: 01/07/2024

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	---	27/06/2024
02	Time of sampling	Hr.	14:45
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	64
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.3
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	41
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on . 14/01/2024

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Ref. No. : 108/06/2024-25

Date: 01/07/2024

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	---	27/06/2024
02	Time of sampling	Hr.	15:00
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	65
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	34
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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

Ref. No. : 109/06/2024-25

Date: 01/07/2024

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	---	27/06/2024
02	Time of sampling	Hr.	14:45
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	62
08	Ambient Temperature	°C	30
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	40
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



Royal Environment Auditing & Consultancy Service

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

Ref. No. : 110/06/2024-25

Date: 01/07/2024

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	---	27/06/2024	27/06/2024
02	Time of sampling	Hr.	15:45	16:30
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	60	64
08	Ambient Temperature	°C	30	31
09	Average Velocity of Flue Gases	m/Sec.	7.6	8.2
10	Isokinetic flow rate for P.M. Sampling	LPM	22	23
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	150
13	Measured Concentration of PM.	mg/Nm ³	27	32
14	Permissible limits for SO ₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	0.0	0.0
16	Permissible limits for NO _x	ppm	50	50
17	Measured Concentration of NO _x	ppm	0.0	0.0

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

Calibration done on : 14/01/2024

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

Ref. No. : 111/06/2024-25

Date: 01/07/2024

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 :18/06/2024

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	82.3	74.5
02.	Cement Mill	81.6	73.6
03.	Fly Ash Compressor Room	80.3	72.3

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 : 17/05/2024

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Ref. No. : 112/06/2024-25

Date: 01/07/2024

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 : 18/06/2024

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
Permissible Limits		75.0	70.0
01.	Security Main gate (East)	69.3	61.2
02.	Packing plant (South)	70.2	64.2
03.	Cement mill (North)	71.3	65.8
04.	Clinker Silo (West)	73.2	64.2

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 : 17/05/2024

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Ref. No.: 113/06/2024-25

Date: 01/07/2024

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	---	27/06/2024	27/06/2024	27/06/2024	27/06/2024	27/06/2024
03.	Time of sampling	Hr	09:30	10:30	11:30	12:30	12:00
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	3 to 18	4 to 20	2 to 11	3 to 20	5 to 21
07.	Flow rate during sampling	m ³ /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 ³	5000	5000	5000	5000	5000
10.	Measured Concentration of SPM	µg/m ³	3125	4021	4458	4621	4128

Instrument used : Envirotech make (HVS), Model No. APM-430BL, Gaseous Sampling Kit,
Calibration done on : 01/01/2024

* Permissible limits of fugitive emission based on CPCB Guidelines

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Ref. No. : 114/06/2024-25

Date: 01/07/2024

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 :18/06/2024

Sr. No.	Parameters	Unit	Permissible Limit*	STP O/L
01.	pH	mg/l	6.5-9	7.6
01.	Total Suspended Solids	mg/l	<100	45
02.	B.O.D. (3 day's at 27 °C)	mg/l	<30	23.6
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: 115/06/2024-25

Date: 01/07/2024

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.

Source of Sample : Drinking Water (Admin Office)
Date of Sampling : 18/06/2024

Sr. No.	Parameters	Unit	Acceptable Limits(*)	Results
01.	pH	pH Units	6.5 to 8.5	7.36
02.	Colour	Hazen	5	Colourless
03.	Turbidity	NTU	1	< 1.0
04.	Total Dissolved Solids	mg/l	500	120
05.	Total Suspended Solids	mg/l	---	12
06.	Total Solids	mg/l	---	135
07.	Chlorides	mg/l	250	50
08.	Sulphates	mg/l	200	11.9
09.	Total Hardness (As CaCO ₃)	mg/l	200	65.6
10.	Calcium (as Ca)	mg/l	75	20.2
11.	Magnesium (as Mg)	mg/l	30	5.9
12.	Total Alkalinity	mg/l	200	30
13.	Nitrates	mg/l	45	4.3
14.	Flouride	mg/l	1.0	0.05
15.	E-Coli	MPN/100ml	Absent	Absent

(*) Acceptable Limit as per IS 10500 : 2012, Drinking Water Specification

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Ref. No : 116/06/2024-25

Date: 01/07/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JUNE 2024

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.

S. No.	Particulars	Unit	Nr. Main Security Main gate (East)							
			1		2		3		4	
01.	No. of Week	—	1		2		3		4	
02.	Date & Time Starting of Monitoring	—	03/06/2024 11:30	04/06/2024 11:45	10/06/2024 12:00	11/06/2024 12:15	17/06/2024 12:30	18/06/2024 12:45	24/06/2024 13:00	25/06/2024 13:15
03.	Date & Time - Ending of Monitoring	—	04/06/2024 11:30	05/06/2024 11:45	11/06/2024 12:00	12/06/2024 12:15	18/06/2024 12:30	19/06/2024 12:45	25/06/2024 13:00	26/06/2024 13:15
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr.	2 to 15	3 to 17	2 to 11	2 to 14	4 to 18	2 to 13	3 to 12	2 to 14
07.	Average Flow Rate For PM2.5	m ³ /Hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min.	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	30.2	32.5	34.5	29.3	29.1	32.5	34.5	39.1
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	63.1	65.8	62.3	69.1	72.1	65.8	73.0	65.8
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	11.2	12.6	14.5	13.6	16.5	17.5	11.5	13.5
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	24.6	22.6	19.6	17.5	18.6	20.0	20.3	24.1

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

Calibration Done on : 13/01/2024



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Ref. No. : 117/06/2024-25

Date: 01/07/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JUNE 2024

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)							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	03/06/2024 12:30	04/06/2024 12:45	10/06/2024 13:00	11/06/2024 13:15	17/06/2024 14:30	18/06/2024 14:45	24/06/2024 14:00	25/06/2024 14:15
03.	Date & Time - Ending of Monitoring	---	04/06/2024 12:30	05/06/2024 12:45	11/06/2024 13:00	12/06/2024 13:15	18/06/2024 14:30	19/06/2024 14:45	25/06/2024 14:00	26/06/2024 14:15
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr.	2 to 15	3 to 17	2 to 11	2 to 14	4 to 18	2 to 13	3 to 12	2 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	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	40.2	38.6	44.8	50.0	38.6	34.8	43.2	47.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	62.3	60.5	72.5	68.6	58.3	60.2	64.8	70.2
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	13.5	11.5	14.5	16.9	12.8	14.3	15.8	14.3
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	19.5	22.1	23.6	21.5	18.3	16.8	21.5	23.5

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

Calibration Done on : 13/01/2024



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Ref. No.: 18/06/2024-25

Date: 01/07/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH :June 2024

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	---	06/06/2024 09:15	07/06/2024 09:25	13/06/2024 09:45	14/06/2024 09:55	20/06/2024 10:15	21/06/2024 10:25	27/06/2024 12:15	28/06/2024 12:30
03.	Date & Time - Ending of Monitoring	---	07/06/2024 09:15	08/06/2024 09:25	14/06/2024 09:45	15/06/2024 09:55	21/06/2024 10:15	22/06/2024 10:25	28/06/2024 12:15	29/06/2024 12:30
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr.	2 to 13	1 to 13	2 to 12	2 to 16	3 to 16	1 to 16	3 to 15	3 to 14
07.	Average Flow Rate For PM2.5	m ³ /Hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min.	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	37.5	41.6	47.5	51.6	40.2	47.5	43.5	39.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	60.5	64.8	65.8	71.5	75.8	69.5	70.2	65.5
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	15.2	11.5	10.6	15.8	14.5	13.5	16.5	14.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	25.3	21.5	24.5	23.6	20.9	23.5	24.5	25.9

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

Calibration Done on : 13/01/2024

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Ref. No. : 19/06/2024-25

Date: 01/07/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JUNE 2024

Name of company : M/s. Adani Cement Industries Limited,
Plot No.138/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)							
			1		2		3		4	
01.	No. of Week	--								
02.	Date & Time Starting of Monitoring	—	06/06/2024 12:00	07/06/2024 12:15	13/06/2024 12:30	14/06/2024 12:45	20/06/2024 13:00	21/06/2024 13:15	27/06/2024 13:15	28/06/2024 13:30
03.	Date & Time - Ending of Monitoring	—	07/06/2024 12:00	08/06/2024 12:15	14/06/2024 12:30	15/06/2024 12:45	21/06/2024 13:00	22/06/2024 13:15	28/06/2024 13:15	29/06/2024 13:30
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/hr	2 to 13	1 to 13	2 to 12	2 to 16	3 to 16	1 to 16	3 to 15	3 to 14
07.	Average Flow Rate For PM2.5	m ³ /hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min.	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	35.2	41.6	44.8	51.3	39.6	33.8	36.8	42.6
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	61.5	58.3	62.8	69.2	63.5	51.8	67.5	68.2
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	12.6	13.5	15.2	16.2	11.5	15.4	16.5	13.5
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	21.4	23.6	25.4	22.3	21.6	23.6	24.8	22.5

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

Calibration Done on : 13/01/2024

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REAS/ACIL/2024-25/06-01

Date: 01/08/2024

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,
Tal. : Vagra, Dist. : Bharuch.

Kind attn.: Mr. Kalubhai Goyani

Sub.: Report of Stack Emission Analysis, Waste water analysis.

Ref.: Our visit at AWL Plant is on **July 2024.**

Dear Sir,

Please find enclosed following analysis report in one copy:

1. Report of Waste Water Analysis	:	01 Samples
2. Report of Stack Emission Monitoring	:	10 Locations
3. Report of National Ambient Air Quality Monitoring	:	40 Locations
4. Report of Drinking Water Analysis	:	01 Samples
5. Report of Ambient Noise Level Monitoring	:	04 Samples
6. Report of Work Place Noise Level Monitoring	:	03 Samples
7. Report of Fugitive Emission	:	05 Samples

Thanking you,

Yours faithfully,

Royal Environment Auditing & Consultancy Service,



Digvijay Jadeja

Encl: As above.



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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. : 202/07/2024-25

Date: 01/08/2024

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	---	12/07/2024
02	Time of sampling	Hr.	12:00
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	68
08	Ambient Temperature	°C	29
09	Average Velocity of Flue Gases	m/Sec.	8.1
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 ³	150
13	Measured Concentration of PM ₁₀	mg/Nm ³	28
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 203/07/2024-25

Date: 01/08/2024

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	---	12-07-2024
02	Time of sampling	Hr.	14:00
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	56
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.3
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	21
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024

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Ref. No. : 204/07/2024-25

Date: 01/08/2024

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	---	12/07/2024
02	Time of sampling	Hr.	14:30
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	52
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	6.8
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	34
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 205/07/2024-25

Date: 01/08/2024

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	---	12/07/2024
02	Time of sampling	Hr.	14:55
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	58
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.8
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	38
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024

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Ref. No. : 206/07/2024-25

Date: 01/08/2024

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	---	20/07/2024
02	Time of sampling	Hr.	12:00
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	57
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	40
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024


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Ref. No. : 207/07/2024-25

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	---	20/07/2024
02	Time of sampling	Hr.	12:30
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	64
08	Ambient Temperature	°C	31
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 ³	150
13	Measured Concentration of PM	mg/Nm ³	36
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 208/07/2024-25

Date: 01/08/2024

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	---	20/07/2024
02	Time of sampling	Hr.	14:00
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	59
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 ³	150
13	Measured Concentration of PM ₁₀	mg/Nm ³	42
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 209/07/2024-25

Date: 01/08/2024

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	---	20/07/2024
02	Time of sampling	Hr.	14:45
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	63
08	Ambient Temperature	°C	32
09	Average Velocity of Flue Gases	m/Sec.	8.1
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	31
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024

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Ref. No.: 210/07/2024-25

Date: 01/08/2024

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	---	12/07/2024	20/07/2024
02	Time of sampling	Hr.	12:45	11:00
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	62	58
08	Ambient Temperature	°C	31	32
09	Average Velocity of Flue Gases	m/Sec.	7.2	7.6
10	Isokinetic flow rate for P.M. Sampling	LPM	20	21
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm³	150	150
13	Measured Concentration of PM ₁₀	mg/Nm ³	35	38
14	Permissible limits for SO₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	0.0	0.0
16	Permissible limits for NO_x	ppm	50	50
17	Measured Concentration of NO _x	ppm	0.0	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 211/07/2024-25

Date: 01/08/2024

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 :20/07/2024

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	83.1	70.1
02.	Cement Mill	80.2	68.1
03.	Fly Ash Compressor Room	78.2	71.1

Instruments used : Sound level meter, Model : VS LM-932 (Vaibhav)

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

Calibration is done on : 17/05/2024

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Ref. No. : 212/07/2024-25

Date: 01/08/2024

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 :20/07/2024

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
Permissible Limits		75.0	70.0
01.	Security Main gate (East)	67.1	60.1
02.	Packing plant (South)	71.2	62.2
03.	Cement mill (North)	72.1	66.1
04.	Clinker Silo (West)	69.2	61.2

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 : VSLM-932 (Vaibhav)
Range : A - 30 to 80 dB, B-50 to 100 dB,C-80 to 130 dB.
Calibration is done on : 17/05/2024

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Ref. No. : 213/07/2024-25

Date: 01/08/2024

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	---	20/07/2024	20/07/2024	20/07/2024	20/07/2024	20/07/2024
03.	Time of sampling	Hr	09:00	10:45	11:00	12:00	10:00
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 18	4 to 20	2 to 11	2 to 20	2 to 21
07.	Flow rate during sampling	m ³ /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 ³	5000	5000	5000	5000	5000
10.	Measured Concentration of SPM	µg/m ³	2875	3012	3214	3412	3715

Instrument used : Envirotech make (HVS), Model No. APM-430BL, Gaseous Sampling Kit,
Calibration done on : 01/01/2024

* Permissible limits of fugitive emission based on CPCB Guidelines

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Ref. No. : 214/07/2024-25

Date: 01/08/2024

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 :12/07/2024

Sr. No.	Parameters	Unit	Permissible Limit*	STP O/L
01.	pH	mg/l	6.5-9	7.2
01.	Total Suspended Solids	mg/l	<100	40
02.	B.O.D. (3 day's at 27 °C)	mg/l	<30	26.1
03.	Fecal Coliform	MPN	<1000MPN/100ml	0.9

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

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Ref. No: 215/07/2024-25

Date: 01/08/2024

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.

Source of Sample : Drinking Water (Admin Office)
Date of Sampling : 12/07/2024

Sr. No.	Parameters	Unit	Acceptable Limits(*)	Results
01.	pH	pH Units	6.5 to 8.5	7.21
02.	Colour	Hazen	5	Colourless
03.	Turbidity	NTU	1	< 1.0
04.	Total Dissolved Solids	mg/l	500	135
05.	Total Suspended Solids	mg/l	---	18
06.	Total Solids	mg/l	---	145
07.	Chlorides	mg/l	250	56
08.	Sulphates	mg/l	200	13.2
09.	Total Hardness (As CaCO ₃)	mg/l	200	62.2
10.	Calcium (as Ca)	mg/l	75	24.1
11.	Magnesium (as Mg)	mg/l	30	6.2
12.	Total Alkalinity	mg/l	200	35
13.	Nitrates	mg/l	45	3.8
14.	Flouride	mg/l	1.0	0.07
15.	E-Coli	MPN/100ml	Absent	Absent

(*) Acceptable Limit as per IS 10500 : 2012, Drinking Water Specification

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Ref No : 216/07/2024-25

Date: 01/08/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JULY 2024

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	Nr. Main Security Main gate (East)									
			1	2	3	4	5					
01	No. of Week	---										
02	Date & Time Starting of Monitoring	---	01/07/2024 08:30	02/07/2024 08:45	08/07/2024 08:45	09/07/2024 09:00	15/07/2024 09:15	16/07/2024 09:30	22/07/2024 09:45	23/07/2024 10:00	29/07/2024 10:45	30/07/2024 11:00
03	Date & Time - Ending of Monitoring	---	02/07/2024 08:30	03/07/2024 08:45	09/07/2024 08:45	10/07/2024 09:00	16/07/2024 09:15	17/07/2024 09:30	23/07/2024 09:45	24/07/2024 10:00	30/07/2024 10:45	31/07/2024 11:00
04	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05	Dominant Wind Direction (From)	---	NE	NE	SE	SE	NE	SE	SE	SE	NE	SE
06	Wind Speed Velocity	Km/Hr	3 to 17	4 to 18	2 to 13	2 to 14	2 to 14	4 to 18	3 to 15	2 to 16	4 to 19	3 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	1.0	1.0
08	Average Flow Rate for PM10	m3/Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21	1.16	1.11
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 ³	60	60	60	60	60	60	60	60	60	60
11	Measured Concentration of PM2.5	µg/m ³	32.2	36.1	34.5	38.2	42.2	45.1	39.1	41.2	46.2	40.2
12	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100	100	100
13	Measured Concentration of PM10	µg/m ³	65.1	68.2	62.3	70.2	60.1	65.8	68.1	65.8	60.1	63.1
14	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
15	Measured Concentration of SO ₂	µg/m ³	13.2	14.2	16.2	11.2	12.2	18.1	12.2	16.2	18.2	13.1
16	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
17	Measured Concentration of NO ₂	µg/m ³	22.1	20.2	18.2	24.2	26.1	21.2	22.3	19.2	21.2	23.2

Instrument Used: Ecotech make (1) RDS, APM - 217BL, (2) Gaseous Pollutants Sampler- AAS-109, (3) Ecotech PM2.5 Sampler- AAS-127
Calibration Done on: 13/01/2024

Royal Environment Auditing & Consultancy Service, Rajkot



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Ref No : 21/07/2024-25

Date: 01/08

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JULY 2024

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)									
			1	2	3	4	5					
01.	No. of Week	—										
02.	Date & Time Starting of Monitoring	—	01/07/2024 08:45	02/07/2024 08:55	08/07/2024 09:00	09/07/2024 09:10	15/07/2024 09:30	16/07/2024 09:40	22/07/2024 10:00	23/07/2024 10:10	29/07/2024 11:15	30/07/2024 11:30
03.	Date & Time - Ending of Monitoring	—	02/07/2024 08:45	03/07/2024 08:55	09/07/2024 09:00	10/07/2024 09:10	16/07/2024 09:30	17/07/2024 09:40	23/07/2024 10:00	24/07/2024 10:10	30/07/2024 11:15	31/07/2024 11:30
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE	NE	SE
06.	Wind Speed Velocity	KmHr	3 to 17	4 to 18	2 to 13	2 to 14	2 to 14	4 to 18	3 to 15	2 to 16	4 to 19	3 to 15
07.	Average Flow Rate For PM2.5	m ³ /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 ³ /Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21	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	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m ³	60	60	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	38.1	43.1	48.2	56.2	41.2	52.1	40.1	50.2	46.2	52.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	66.2	60.2	58.2	62.2	63.1	68.1	72.1	62.2	57.1	53.2
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	12.2	14.2	16.2	18.1	13.2	15.1	13.2	17.2	18.2	13.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	20.1	23.2	26.1	21.2	22.3	24.1	25.2	25.2	22.3	24.2

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

Calibration Done on : 13/01/2024

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Ref. No. : 1018/07/2024-25

Date: 01/08/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH :JULY 2024

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	9	10
01.	No. of Week	—										
02.	Date & Time Starting of Monitoring	—	01/07/2024 09:00	02/07/2024 09:10	08/07/2024 09:15	09/07/2024 09:25	15/07/2024 09:45	16/07/2024 09:55	22/07/2024 10:15	23/07/2024 10:25	29/07/2024 12:15	30/07/2024 12:30
03.	Date & Time - Ending of Monitoring	—	02/07/2024 09:00	03/07/2024 09:10	09/07/2024 09:15	10/07/2024 09:25	16/07/2024 09:45	17/07/2024 09:55	23/07/2024 10:15	24/07/2024 10:25	30/07/2024 12:15	31/07/2024 12:30
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE	NE	SE
06.	Wind Speed Velocity	Km/hr	3 to 17	4 to 18	2 to 13	2 to 14	2 to 14	4 to 18	3 to 15	2 to 16	4 to 19	3 to 15
07.	Average Inflow Rate For PM2.5	m ³ /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 ³ /Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21	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	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m ³	60	60	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	38.2	46.2	40.2	43.2	49.1	37.2	39.1	41.2	45.2	42.3
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	62.2	67.1	63.2	72.2	62.2	68.1	61.2	71.2	59.3	62.1
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	13.2	14.2	12.2	16.2	11.2	15.1	17.2	14.2	13.2	16.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	23.2	20.1	21.2	24.2	23.1	26.1	25.1	21.1	24.2	26.1

Instrument Used: Ecotech make (1) RDS, APM - 217BL, (2) Gaseous Pollutants Sampler- AAS-109, (3) Ecotech PM2.5 Sampler- AAS-127
Calibration Done on : 13/01/2024

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Ref No.: 1019/07/2024-25

Date: 01/06/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : JULY 2024

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 194/P of
Village: Dahej in Dahej 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	—	01/07/2024 11:30	02/07/2024 11:45	08/07/2024 12:00	09/07/2024 12:15	15/07/2024 12:30	16/07/2024 12:45	22/07/2024 13:00	23/07/2024 13:15	29/07/2024 13:15	30/07/2024 13:30
03.	Date & Time - Ending of Monitoring	—	02/07/2024 11:30	03/07/2024 11:45	09/07/2024 12:00	10/07/2024 12:15	16/07/2024 12:30	17/07/2024 12:45	23/07/2024 13:00	24/07/2024 13:15	30/07/2024 13:15	31/07/2024 13:30
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE	NE	SE
06.	Wind Speed Velocity	Km/hr	2 to 13	3 to 17	4 to 18	2 to 13	2 to 14	2 to 14	4 to 18	3 to 15	2 to 16	4 to 19
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/Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21	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	0.2	0.2
10.	Permissible Limits of PM2.5 *	µg/m ³	60	60	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	41.2	38.2	46.1	52.2	40.1	37.2	43.2	29.1	30.1	36.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	62.2	54.2	64.1	66.2	68.2	70.1	74.2	63.2	68.1	58.1
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	13.2	14.1	16.2	11.2	12.1	17.2	15.2	12.2	14.1	16.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	23.2	20.1	19.1	26.1	24.2	21.2	25.2	20.2	24.1	27.2

Instrument Used Ecotech make (1) RDS, APM - 217UL, (2) Gaseous Pollutants Sampler-AAS-109, (3) Ecotech PM2.5 Sampler AAS-127
Calibration Done on 13/01/2024

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REAS/ACIL/2024-25/08-01

Date: 05/09/2024

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,
Tal. : Vagra,Dist. : Bharuch.

Kind attn.: Mr. Kalubhai Goyani

Sub.: Report of Stack Emission Analysis, Waste water analysis.

Ref.: Our visit at AWL Plant is on **August 2024.**

Dear Sir,


Please find enclosed following analysis report in one copy:

1. Report of Waste Water Analysis	01 Samples
2. Report of Stack Emission Monitoring	10 Locations
3. Report of National Ambient Air Quality Monitoring	32 Locations
4. Report of Drinking Water Analysis	01 Samples
5. Report of Ambient Noise Level Monitoring	04 Samples
6. Report of Work Place Noise Level Monitoring	03 Samples
7. Report of Fugitive Emission	05 Samples

Thanking you,

Yours faithfully,

Royal Environment Auditing & Consultancy Service,


Digvijay Jadeja

Encl: As above.





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Ref. No. : 302/08/2024-25

Date: 05/09/2024

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	---	31/08/2024
02	Time of sampling	Hr.	12:15
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	69
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	22
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024


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Ref. No. : 303/08/2024-25

Date: 05/09/2024

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	---	13-08-2024
02	Time of sampling	Hr.	12:00
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	52
08	Ambient Temperature	°C	29
09	Average Velocity of Flue Gases	m/Sec.	6.9
10	Isokinetic flow rate for P.M. Sampling	LPM	17
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm ³	150
13	Measured Concentration of PM.	mg/Nm ³	23
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024


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Ref. No. : 304/08/2024-25

Date: 05/09/2024

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	---	31/08/2024
02	Time of sampling	Hr.	13:20
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	50
08	Ambient Temperature	°C	29
09	Average Velocity of Flue Gases	m/Sec.	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	18
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm ³	150
13	Measured Concentration of PM.	mg/Nm ³	21
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024


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Ref. No. : 305/08/2024-25

Date: 05/09/2024

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	---	31/08/2024
02	Time of sampling	Hr.	14:45
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	56
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.2
10	Isokinetic flow rate for P.M. Sampling	LPM	19
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm ³	20
14	Permissible limits for SO₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO_x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024


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Ref. No. : 306/08/2024-25

Date: 05/09/2024

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	---	31/08/2024
02	Time of sampling	Hr.	15:20
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	58
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.8
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	19
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024

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

Ref. No. : 307/08/2024-25

Date: 05/09/2024

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	---	31/08/2024
02	Time of sampling	Hr.	15:50
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	58
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.2
10	Isokinetic flow rate for P.M. Sampling	LPM	18
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm ³	150
13	Measured Concentration of PM.	mg/Nm ³	22
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 308/08/2024-25

Date: 05/09/2024

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	---	31/08/2024
02	Time of sampling	Hr.	16:30
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	57
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.3
10	Isokinetic flow rate for P.M. Sampling	LPM	17
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm ³	150
13	Measured Concentration of PM.	mg/Nm ³	19
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024

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Ref. No. : 309/08/2024-25

Date: 05/09/2024

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- B
01	Date of Sampling	---	31/08/2024
02	Time of sampling	Hr.	11:00
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	60
08	Ambient Temperature	°C	32
09	Average Velocity of Flue Gases	m/Sec.	8.2
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	23
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024

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Ref. No. : 310/08/2024-25

Date: 05/09/2024

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	---	13/08/2024	13/08/2024
02	Time of sampling	Hr.	14:00	15:00
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	60	56
08	Ambient Temperature	°C	30	31
09	Average Velocity of Flue Gases	m/Sec.	6.9	7.2
10	Isokinetic flow rate for P.M. Sampling	LPM	18	20
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm³	150	150
13	Measured Concentration of PM ₁₀	mg/Nm ³	24	21
14	Permissible limits for SO₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	0.0	0.0
16	Permissible limits for NO_x	ppm	50	50
17	Measured Concentration of NO _x	ppm	0.0	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 311/08/2024-25

Date: 05/09/2024

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 :31/08/2024

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	84.2	78.1
02.	Cement Mill	81.1	70.2
03.	Fly Ash Compressor Room	80.2	72.2

Instruments used : Sound level meter, Model : VSLM-932 (Vaibhav)

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

Calibration is done on : 17/05/2024

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Ref. No. : 312/08/2024-25

Date: 05/09/2024

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 :31/08/2024

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
Permissible Limits		75.0	70.0
01.	Security Main gate (East)	65.1	58.1
02.	Packing plant (South)	67.2	61.1
03.	Cement mill (North)	69.2	63.2
04.	Clinker Silo (West)	71.1	62.2

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 : VSLM-932 (Vaibhav)
Range : A - 30 to 80 dB, B-50 to 100 dB,C-80 to 130 dB.
Calibration is done on : 17/05/2024



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Ref. No. : 313/08/2024-25

Date: 05/09/2024

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.

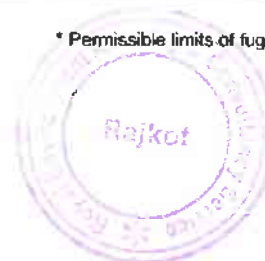
Test Method : As per IS Standards - 5182_23/4/6

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	—	13/08/2024	13/08/2024	13/08/2024	13/08/2024	13/08/2024
03	Time of sampling	Hr	09.00	10.45	11.00	12.00	10.00
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	3 to 20	2 to 11	2 to 15	2 to 21
07.	Flow rate during sampling	m ³ /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 ³	5000	5000	5000	5000	5000
10.	Measured Concentration of SPM	µg/m ³	2145	2658	2945	2875	3145

Instrument used : Envirotech make (HVS), Model No. APM-430BL, Gaseous Sampling Kit,
Calibration done on 01/01/2024

* Permissible limits of fugitive emission based on GPCB Guidelines


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Ref. No. : 314/08/2024-25

Date: 05/09/2024

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 :31/08/2024

Sr. No.	Parameters	Unit	Permissible Limit*	STP O/L
01.	pH	mg/l	6.5-9	7.1
01.	Total Suspended Solids	mg/l	<100	42
02.	B.O.D. (3 day's at 27 °C)	mg/l	<30	22.2
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 :205/08/2024-25

Date:05/09/2024

ANALYSIS REPORT OF WATER

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 Description: GIDC Water
Date of Sampling : 31/08/2024

Sr. No.	Parameters	Unit	Acceptable Limit	Permissible Limit*	Result
01.	pH Value	pH Units	8.5 to 8.5	No Relaxation	7.45
02.	Color	Hazan	5	15	<5.0 (Colorless)
03.	Odour	---	Agreeable	Agreeable	Agreeable
04.	Taste	---	Agreeable	Agreeable	Agreeable
05.	Turbidity	NTU	1	5	1.0
06.	Total Hardness (as CaCO ₃)	mg/l	200	600	140.0
07.	Iron (as Fe)	mg/l	0.3	No Relaxation	0.250
08.	Chlorides (as Cl ⁻)	mg/l	250	1000	21.50
09.	Free Residual Chlorine	mg/l	0.2	1	NIL
10.	Total Dissolved Solids	mg/l	500	2000	160.40
11.	Calcium (as Ca)	mg/l	75	200	17.500
12.	Magnesium (as Mg)	mg/l	30	100	20.60
13.	Copper (as Cu)	mg/l	0.05	1.5	0.700
14.	Manganese (as Mn)	mg/l	0.1	0.3	0.011
15.	Sulphates (as SO ₄)	mg/l	200	400	21.500
16.	Nitrates (as NO ₃)	mg/l	45	No Relaxation	1.800
17.	Fluoride (As F)	mg/l	1.0	1.5	0.500
18.	Phenolic Compounds(as C ₆ H ₅ OH)	mg/l	0.001	0.002	< 0.001
19.	Mercury (as Hg)	mg/l	0.001	No Relaxation	< 0.001
20.	Cadmium (as Cd)	mg/l	0.005	No Relaxation	0.090

(*Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012 Drinking Water Specification

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Ref. No.:205/08/2024-25

Sample Description: GIDC Water

Sr. No.	Parameters	Unit	Acceptable Limit (*)	Permissible Limit*	Result
21.	Selenium (Se)	mg/l	0.01	No Relaxation	< 0.010
22.	Arsenic (as As)	mg/l	0.05	No Relaxation	< 0.010
23.	Lead (as Pb)	mg/l	0.01	No Relaxation	0.004
24.	Zinc(as Zn)	mg/l	5	15	0.034
25.	Chromium (Cr+6)	mg/l	0.05	No Relaxation	0.011
26.	Anionic Detergents (as MBAS)	mg/l	0.2	1	< 0.010
27.	Mineral Oil	mg/l	0.5	No Relaxation	< 0.010
28.	Sodium (as Na)	mg/l	100	Absent	7.450
29.	Potassium (as K)	mg/l	100	600	0.100
30.	Aluminum (as Al)	mg/l	0.03	0.2	0.020
31.	Barium(as B)	mg/l	0.7	No Relaxation	< 0.010
32.	Molybdenum	mg/l	0.07	No Relaxation	< 0.010
33.	Boron (as B)	mg/l	0.5	2.4	< 0.005
34.	Nickel (as Ni)	mg/l	0.02	No Relaxation	< 0.010
Biological Characteristics:					
35.	E-Coli	Counts/100 ml	Absent	No Relaxation	Absent
36.	Coliform	Counts/100 ml	Absent	No Relaxation	Absent

(*) Acceptable Limit as per IS 10500: 2012, Drinking Water Specification

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Ref. No. : 316/08/2024-25

Date: 05/09/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : AUGUST 2024

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	Nr. Main Security Main gate (East)							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	05/08/2024 08:30	06/08/2024 08:45	12/08/2024 08:45	13/08/2024 09:00	20/08/2024 09:15	21/08/2024 09:30	26/08/2024 09:45	27/08/2024 10:00
03.	Date & Time - Ending of Monitoring	---	06/08/2024 08:30	07/08/2024 08:45	13/08/2024 08:45	14/08/2024 09:00	21/08/2024 09:15	22/08/2024 09:30	27/08/2024 09:45	28/08/2024 10:00
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr	3 to 17	4 to 18	2 to 13	2 to 14	2 to 14	4 to 18	3 to 15	2 to 16
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	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	33.2	31.1	30.2	39.2	40.1	42.2	37.1	46.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	62.2	60.1	58.2	64.2	63.2	57.1	52.2	62.2
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	12.2	15.2	17.1	13.2	11.1	14.2	16.2	15.1
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	24.2	19.2	23.2	25.2	21.1	23.2	26.1	20.2

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

Calibration Done on : 13/01/2024



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Ref. No. : 317/08/2024-25

Date: 05/09/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : AUGUST 2024

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)							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	05/08/2024 08:45	06/08/2024 08:55	12/08/2024 09:00	13/08/2024 09:10	20/08/2024 09:30	21/08/2024 09:40	26/08/2024 10:00	27/08/2024 10:10
03.	Date & Time - Ending of Monitoring	---	06/08/2024 08:45	07/08/2024 08:55	13/08/2024 09:00	14/08/2024 09:10	21/08/2024 09:30	22/08/2024 09:40	27/08/2024 10:00	28/08/2024 10:10
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr	3 to 17	4 to 18	2 to 13	2 to 14	2 to 14	4 to 18	3 to 15	2 to 16
07.	Average Flow Rate For PM2.5	m ³ /hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min.	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	32.2	46.2	41.1	52.2	38.2	47.1	42.2	53.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	62.1	57.1	53.2	63.2	68.1	70.1	52.2	59.2
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	13.1	15.1	17.1	12.2	14.2	11.2	16.1	14.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	24.2	26.1	20.2	23.2	22.1	19.2	24.1	19.1

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

Calibration Done on : 13/01/2024

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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.: 318/08/2024-25

Date: 05/09/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH :AUGUST 2024

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. : Vegra,Dist. : Bharuch.

S. No.	Particulars	Unit	Cement mill (North)							
			1		2		3		4	
01.	No. of Week	---								
02	Date & Time Starting of Monitoring	—	05/08/2024 09:00	06/08/2024 09:10	12/08/2024 09:15	13/08/2024 09:25	20/08/2024 09:45	21/08/2024 09:55	26/08/2024 10:15	27/08/2024 10:25
03	Date & Time - Ending of Monitoring	—	06/08/2024 09:00	07/08/2024 09:10	13/08/2024 09:15	14/08/2024 09:25	21/08/2024 09:45	22/08/2024 09:55	27/08/2024 10:15	28/08/2024 10:25
04	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE
06	Wind Speed Velocity	Km/Hr	3 to 17	4 to 18	2 to 13	2 to 14	2 to 14	4 to 18	3 to 15	2 to 16
07.	Average Flow Rate For PM2.5	m ³ /hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08	Average Flow Rate For PM10	m ³ /Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11	Measured Concentration of PM2.5	µg/m ³	39.1	42.2	45.2	30.2	28.1	32.1	34.1	43.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	60.1	63.1	59.2	56.2	56.1	63.2	64.1	59.1
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15	Measured Concentration of SO ₂	µg/m ³	12.2	15.1	11.2	13.1	14.2	16.1	12.2	17.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17	Measured Concentration of NO ₂	µg/m ³	20.2	26.1	23.2	19.2	21.2	24.2	22.1	20.2

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

Calibration Done on 13/01/2024



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Ref No: 319/08/2024-25

Date: 05/09/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : AUGUST 2024

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,
152/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)							
			1	2	3	4	5	6	7	8
01.	No. of Week	—								
02	Date & Time Starting of Monitoring	—	05/08/2024 09:30	06/08/2024 09:45	12/08/2024 09:45	13/08/2024 10:00	20/08/2024 10:15	21/08/2024 10:30	26/08/2024 10:45	27/08/2024 11:00
03	Date & Time - Ending of Monitoring	—	06/08/2024 09:30	07/08/2024 09:45	13/08/2024 09:45	14/08/2024 10:00	21/08/2024 10:15	22/08/2024 10:30	27/08/2024 10:45	28/08/2024 11:00
04	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE
06	Wind Speed Velocity	Km/Hr	2 to 13	3 to 17	4 to 18	2 to 13	2 to 14	2 to 14	4 to 18	3 to 15
07	Average Flow Rate For PM2.5	m ³ /Hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08	Average Flow Rate For PM10	m ³ /Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	38.2	32.2	40.2	39.2	32.2	35.1	41.2	32.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	58.1	52.2	62.1	54.1	60.2	63.2	67.1	59.1
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	12.2	15.2	17.1	13.2	16.2	11.2	14.2	13.1
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	26.1	22.1	23.2	24.2	25.1	19.1	21.2	23.3

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

Calibration Done on : 13/01/2024



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REAS/ACIL/2024-25/09-01

Date: 04/10/2024

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,
Tal. : Vagra,Dist. : Bharuch.

Kind attn.: Mr. Kalubhai Goyani

Sub.: Report of Stack Emission Analysis, Waste water analysis.

Ref.: Our visit at AWL Plant is on **September 2024.**

Dear Sir,

Please find enclosed following analysis report in one copy:

1.	Report of Waste Water Analysis	:	01 Samples
2.	Report of Stack Emission Monitoring	:	10 Locations
3.	Report of National Ambient Air Quality Monitoring	:	32 Locations
4.	Report of Drinking Water Analysis	:	01 Samples
5.	Report of Ambient Noise Level Monitoring	:	04 Samples
6.	Report of Work Place Noise Level Monitoring	:	03 Samples
7.	Report of Fugitive Emission	:	05 Samples
8.	Report of Workplace Monitoring (F.No.37)	:	05 Samples

Thanking you,

Yours faithfully,

Royal Environment Auditing & Consultancy Service,

Digvijay Jadeja

Encl: As above.





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Ref. No. : 402/09/2024-25

Date: 04/10/2024

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	---	28/09/2024
02	Time of sampling	Hr.	14:15
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	67
08	Ambient Temperature	°C	29
09	Average Velocity of Flue Gases	m/Sec.	76.0
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	24
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No. ESS - 100
Calibration done on : 14/01/2024



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Ref. No. : 403/09/2024-25

Date: 04/10/2024

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	---	13/09/2024
02	Time of sampling	Hr.	12:10
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	52
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.2
10	Isokinetic flow rate for P.M. Sampling	LPM	18
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm ³	21
14	Permissible limits for SO₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO_x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 404/09/2024-25

Date: 04/10/2024

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	---	28/09/2024
02	Time of sampling	Hr.	14:50
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	52
08	Ambient Temperature	°C	29
09	Average Velocity of Flue Gases	m/Sec.	6.9
10	Isokinetic flow rate for P.M. Sampling	LPM	17
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm ³	150
13	Measured Concentration of PM.	mg/Nm ³	19
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 405/09/2024-25

Date: 04/10/2024

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	---	28/09/2024
02	Time of sampling	Hr.	15:30
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	58
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 ³	150
13	Measured Concentration of PM	mg/Nm ³	22
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

Instruments Used : Ecotech Stack Kit model No ESS - 100

Calibration done on : 14/01/2024

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Ref. No. : 406/09/2024-25

Date: 04/10/2024

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	---	28/09/2024
02	Time of sampling	Hr.	16:15
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	59
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.9
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	17
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 407/09/2024-25

Date: 04/10/2024

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//09/2024
02	Time of sampling	Hr.	16:55
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	56
08	Ambient Temperature	°C	31
09	Average Velocity of Flue Gases	m/Sec.	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	16
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm ³	150
13	Measured Concentration of PM.	mg/Nm ³	20
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 408/09/2024-25

Date: 04/10/2024

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	---	13/09/2024
02	Time of sampling	Hr.	14:00
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	55
08	Ambient Temperature	°C	30
09	Average Velocity of Flue Gases	m/Sec.	7.8
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	23
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 409/09/2024-25

Date: 04/10/2024

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	---	13/09/2024
02	Time of sampling	Hr.	14:50
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	58
08	Ambient Temperature	°C	31
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 ³	150
13	Measured Concentration of PM.	mg/Nm ³	21
14	Permissible limits for SO ₂	ppm	100
15	Measured Concentration of SO ₂	ppm	0.0
16	Permissible limits for NO _x	ppm	50
17	Measured Concentration of NO _x	ppm	0.0

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

Calibration done on : 14/01/2024



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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. : 410/09/2024-25

Date: 04/10/2024

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	---	13/09/2024	13/09/2024
02	Time of sampling	Hr.	15:00	15:45
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	60	62
08	Ambient Temperature	°C	31	31
09	Average Velocity of Flue Gases	m/Sec.	7.2	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	17	19
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm³	150	150
13	Measured Concentration of PM.	mg/Nm ³	26	23
14	Permissible limits for SO₂	ppm	100	100
15	Measured Concentration of SO ₂	ppm	0.0	0.0
16	Permissible limits for NO_x	ppm	50	50
17	Measured Concentration of NO _x	ppm	0.0	0.0

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

Calibration done on : 14/01/2024

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Ref. No. : 411/09/2024-25

Date: 04/10/2024

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 :28/09/2024

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	83.1	79.2
02.	Cement Mill	80.1	75.1
03.	Fly Ash Compressor Room	82.2	73.2

Instruments used : Sound level meter, Model : VSLM-932 (Vaibhav)

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

Calibration is done on : 17/05/2024

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Ref. No. : 412/09/2024-25

Date: 04/10/2024

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 :28/09/2024

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
Permissible Limits		75.0	70.0
01.	Security Main gate (East)	68.1	56.1
02.	Packing plant (South)	66.2	62.2
03.	Cement mill (North)	70.1	64.1
04.	Clinker Silo (West)	69.1	63.2

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 : VSLM-932 (Vaibhav)
Range : A - 30 to 80 dB, B-50 to 100 dB,C-80 to 130 dB.
Calibration is done on : 17/05/2024

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Ref. No.: 413/09/2024-25

Date: 04/10/2024

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	---	13/09/2024	13/09/2024	13/09/2024	13/09/2024	28/09/2024
03.	Time of sampling	Hr	09:30	09:45	10:00	10:15	10:00
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 14	3 to 18	2 to 11	2 to 15	4 to 21
07.	Flow rate during sampling	m3/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 *	$\mu\text{g}/\text{m}^3$	5000	5000	5000	5000	5000
10.	Measured Concentration of SPM	$\mu\text{g}/\text{m}^3$	2451	2314	3145	2456	4152

Instrument used Envirotech make (HVS), Model No. APM-430BL, Gaseous Sampling Kit,
Calibration done on 01/01/2024

* Permissible limits of fugitive emission based on CPCB Guidelines.


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Ref. No. : 514/09/2024-25

Date: 04/10/2024

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 :13/09/2024

Sr. No.	Parameters	Unit	Permissible Limit*	STP O/L
01.	pH	mg/l	6.5-9	7.3
01.	Total Suspended Solids	mg/l	<100	45
02.	B.O.D. (3 day's at 27 °C)	mg/l	<30	20.2
03.	Fecal Coliform	MPN	<1000MPN/100ml	120

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

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Ref. No: 415/09/2024-25

Date: 04/10/2024

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.

Source of Sample : Drinking Water (Admin Office)
Date of Sampling :13/09/2024

Sr. No.	Parameters	Unit	Acceptable Limits(*)	Results
01.	pH	pH Units	6.5 to 8.5	7.15
02.	Colour	Hazen	5	Colourless
03.	Turbidity	NTU	1	< 1.0
04.	Total Dissolved Solids	mg/l	500	115
05.	Total Suspended Solids	mg/l	---	23
06.	Total Solids	mg/l	---	120
07.	Chlorides	mg/l	250	61
08.	Sulphates	mg/l	200	14.1
09.	Total Hardness (As CaCO ₃)	mg/l	200	62.1
10.	Calcium (as Ca)	mg/l	75	25.1
11.	Magnesium (as Mg)	mg/l	30	6.1
12.	Total Alkalinity	mg/l	200	28
13.	Nitrates	mg/l	45	3.5
14.	Flouride	mg/l	1.0	0.03
15.	E-Coli	MPN/100ml	Absent	Absent

(*) Acceptable Limit as per IS 10500 : 2012, Drinking Water Specification

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Ref. No. : 416/09/2024-25

Date: 04/10/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : SEPTEMBER 2024

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	Nr. Main Security Main gate (East)							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	02/09/2024 09:45	03/09/2024 10:00	09/09/2024 09:00	10/09/2024 09:15	16/09/2024 09:30	17/09/2024 09:45	23/09/2024 10:15	24/09/2024 10:30
03.	Date & Time - Ending of Monitoring	---	03/09/2024 09:45	04/09/2024 10:00	10/09/2024 09:00	11/09/2024 09:15	17/09/2024 09:30	18/09/2024 09:45	24/09/2024 10:15	25/09/2024 10:30
04.	Duration of Sampling	Min	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr	2 to 16	3 to 18	4 to 15	3 to 17	2 to 18	4 to 18	5 to 15	5 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
08.	Average Flow Rate For PM10	m3/Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	36.2	34.1	29.1	28.2	31.1	40.2	36.1	42.1
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	60.1	53.2	59.1	65.2	68.1	62.2	60.1	59.2
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	13.1	14.2	16.1	11.2	15.1	12.2	17.2	15.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	20.2	26.1	24.2	23.1	21.1	19.1	20.2	22.1

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

Calibration Done on : 13/01/2024

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Ref. No. 417/09/2024-25

Date: 04/10/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : SEPTEMBER 2024

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)							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	02/09/2024 10:00	03/09/2024 10:15	09/09/2024 09:15	10/09/2024 09:30	16/09/2024 09:45	17/09/2024 10:00	23/09/2024 10:30	24/09/2024 10:45
03.	Date & Time - Ending of Monitoring	---	03/09/2024 10:00	04/09/2024 10:15	10/09/2024 09:15	11/09/2024 09:30	17/09/2024 09:45	18/09/2024 10:00	24/09/2024 10:30	25/09/2024 10:45
04.	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05.	Dominant Wind Direction (From)	---	NE	NE	SE	SE	NE	SE	SE	SE
06.	Wind Speed Velocity	Km/Hr	2 to 16	3 to 18	4 to 15	3 to 17	2 to 18	4 to 18	5 to 15	5 to 18
07.	Average Flow Rate For PM2.5	m ³ /Hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min.	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11.	Measured Concentration of PM2.5	µg/m ³	30.1	42.2	50.1	41.1	49.2	53.1	54.2	58.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	63.1	64.2	58.1	69.1	64.1	71.2	59.2	63.1
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	16.2	17.2	15.1	14.1	12.2	15.1	11.3	17.1
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	20.2	18.2	23.2	26.1	21.2	22.2	19.1	24.1

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

Calibration Done on : 13/01/2024



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Ref No : 418/09/2024-25

Date: 04/10/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : SEPTEMBER 2024

Name of company : M/s. Adani Cement Industries Limited,
Plot No.135/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	—	02/09/2024 10:15	03/09/2024 10:30	09/09/2024 09:30	10/09/2024 09:45	16/09/2024 10:00	17/09/2024 10:15	23/09/2024 10:45	24/09/2024 11:00
03	Date & Time - Ending of Monitoring	—	03/09/2024 10:15	04/09/2024 10:30	10/09/2024 09:30	11/09/2024 09:45	17/09/2024 10:00	18/09/2024 10:15	24/09/2024 10:45	25/09/2024 11:00
04	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05	Dominant Wind Direction (From)	—	NE	NE	SE	SE	NE	SE	SE	SE
06	Wind Speed Velocity	Km/Hr	2 to 16	3 to 18	4 to 15	3 to 17	2 to 18	4 to 18	5 to 15	5 to 18
07.	Average Flow Rate For PM2.5	m ³ /Hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08.	Average Flow Rate For PM10	m ³ /Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11	Measured Concentration of PM2.5	µg/m ³	40.2	43.1	49.1	52.1	36.2	39.1	42.2	41.1
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13.	Measured Concentration of PM10	µg/m ³	68.2	72.2	71.1	75.2	62.2	68.2	72.2	69.1
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15	Measured Concentration of SO ₂	µg/m ³	11.2	13.2	14.1	15.2	16.2	17.1	18.2	12.2
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17	Measured Concentration of NO ₂	µg/m ³	19.1	22.2	25.1	26.2	20.2	23.1	21.3	24.1

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

Calibration Done on 13/01/2024



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Ref. No : 419/09/2024-25

Date: 04/10/2024

RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH : SEPTEMBER 2024

Name of company : M/s. Adani Cement Industries Limited,
Plot No.138/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)							
			1	2	3	4	5	6	7	8
01.	No. of Week	--								
02	Date & Time Starting of Monitoring	--	02/09/2024 10:30	03/09/2024 10:45	09/09/2024 09:45	10/09/2024 10:00	16/09/2024 10:15	17/09/2024 10:30	23/09/2024 11:00	24/09/2024 11:15
03	Date & Time - Ending of Monitoring	--	03/09/2024 10:30	04/09/2024 10:45	10/09/2024 09:45	11/09/2024 10:00	17/09/2024 10:15	18/09/2024 10:30	24/09/2024 11:00	25/09/2024 11:15
04	Duration of Sampling	Min.	1440	1440	1440	1440	1440	1440	1440	1440
05	Dominant Wind Direction (From)	--	NE	NE	SE	SE	NE	SE	SE	SE
06	Wind Speed Velocity	Km/Hr	2 to 16	3 to 18	4 to 15	3 to 17	2 to 18	4 to 18	5 to 15	5 to 18
07	Average Flow Rate For PM2.5	m ³ /hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
08	Average Flow Rate For PM10	m ³ /Min	1.13	1.12	1.18	1.14	1.12	1.11	1.12	1.21
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 ³	60	60	60	60	60	60	60	60
11	Measured Concentration of PM2.5	µg/m ³	42.2	45.1	50.1	39.1	40.2	43.1	41.2	46.2
12.	Permissible Limits of PM10 *	µg/m ³	100	100	100	100	100	100	100	100
13	Measured Concentration of PM10	µg/m ³	62.1	68.2	70.2	73.2	68.1	65.2	74.2	67.1
14.	Permissible Limits of SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	17.2	14.1	13.2	11.2	16.1	15.1	14.2	12.1
16.	Permissible Limits of NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	20.1	23.2	22.1	26.1	19.2	22.2	24.1	22.1

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


Calibration Done on : 13/01/2024

Form No. 37
(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant: **PACKING & CEMENT MILL SECTION OF Adani Cement Industries Limited,**
- 2 Raw materials, by products and finished products involved in the process: **TOTAL DUST**
- 3 Particulars of sampling

Date of Sampling : 13th to 28th September, 2024

Sr. No	Location monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA Concentration (As given in Second Schedule) Mg/m ³	Reference Method	Number of workers exposed at the location being monitored	Plant Incharge	Signature person taking samples	Name (in Block letters)
				Number of Sample	Range	Average						
1	Nr. Packer	Total Dust	Personal Respirable Dust sampler VPDS 203	1	-	3.8	10	Gravimetric	10	Deodatt patrawale		Mr. HARSHIL PATEL
2	Nr. Cement Mill			1	-	4.2	10	Gravimetric	30	Sunilkumar bhagat		
3	Nr. Gypsum Yard			1	-	3.5	10	Gravimetric	10	Sunilkumar bhagat		
4	Nr. BRU			1	-	4.1	10	Gravimetric	2	Sunilkumar bhagat		
5	Nr. Hopper Building			1	-	4.7	10	Gravimetric	10	Sunilkumar bhagat		

Calibration Done On : 18/01/2024



Royal Environment Auditing & Consultancy Service


Authorized Sign

**Safety MIS Report Adani cement industries Ltd, GU Dahej
(April '2024 - September '2024)**

I. Highlight of EHS-



1. Non-Standard Monkey ladder removed at 511 BF5 Hopper building.
2. Earth pit resistance value testing done and inspection tag display.
3. All load center in lock and key and emergency door outside all drop has been removed.
4. Emergency exit display board has been connected with UPS.
5. Entry authorization list has been displayed on load center door.
6. Q2 & Q3 safety committee meeting conducted.
7. Full body harness inspection done.
8. Confined space survey done.
9. Lifting tool & tackles visual inspection done.
10. Safety awareness program held on PTW, electrical safety, material lifting etc.
11. Hand railing modify at the top of Fly ash silo.
12. Power tools being used with proper ELCB, and defective power hand tools banned to use at site, monthly check list checked and maintained the record.
13. Daily TBT conducted at site, on job TBT and classroom training implemented at the site.
14. Leading indicators being reported and corrected on site by every individual to prevent incidents.
15. Daily safety concerns reported online portal Gensuite and ensure all safety compliances.
16. Fire hydrant system installed and in working condition.
17. Portable fire extinguisher installed different location at site.
18. Gas Cylinder handling” and “Pinch Point” monthly campaign.
19. “SAKSHAM” 3 hours health and safety training program launched and imparted to all 256 employees.
20. Health check being the worker and Ambulance higher with round clock 24X7 male nurse.
21. Tarpaulin tying facility completed to control working at height hazards.
22. Two mock drills has done at the site.
23. Randomly carrying the alcohol testing of contract workmen


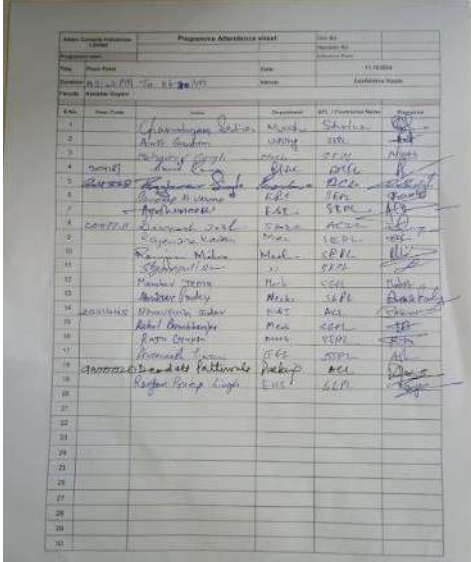



II. OHS – Statistics (April '2024 -September '2024)

S. No.	Description / Activity	Cumulative
1.	Reportable (Fatal) Accident	0
2.	Reportable (Other than Fatal) Accident	0
3.	Non-Reportable (First Aid Cases)	0
4.	Man-Days Lost (MDL)	0
5.	Man-Hours Worked	304298
6.	Frequency Rate (FR)	0
7.	Severity Rate (SR)	0
8.	Disabling Injury Index (DII)	0
9.	Near Miss	06
10.	Dangerous Occurrence (DO)	0
11.	Fire Incident	0
12.	Fire Calls Attended (By Fire Crew)	0
13.	Mock Drill (Fire)	02
14.	No of Safety Observations Issued	645
15.	No of Safety Observations Complied	579
16.	Percentage Compliance	89.76%
17.	No. of Memos / chalan Issued	00
18.	Details of award (Reward & Recognition)	15
19.	No of Safety Training	13
20.	No. of workers Safety Induction provided	256
21.	No. of Employees Covered in safety Induction	00
22.	Safety Awareness Programs Daily TBT (No's of Workman)	2091
23.	No. of Safety Committee Meeting	02

II. Photographs (Training / Observations / etc.)

Sr. No.	Topic	Photographs
1	Mock Drill	<p>The photographs illustrate a mock drill procedure. The top-left image shows a person lying on the floor with a yellow helmet. The top-right image shows a person in a high-visibility vest using a long yellow pole to assist with the person on the floor. The middle-left image shows an ambulance parked on a paved area. The middle-right image shows two workers in high-visibility vests and hard hats loading a stretcher with a person on it. The bottom-left image shows a group of workers in high-visibility vests and hard hats gathered around a person on the floor. The bottom-right image shows an ambulance parked in front of a building with a group of workers standing nearby.</p>

<p>2</p>	<p>“Gas Cylinder handling” monthly campaign</p>	
<p>3</p>	<p>Safety TBT On Daily Basis</p>	 <p>15 Jul 2024, 10:31 AM</p>

		
<p>4</p>	<p>“Pinch Point” Campaign Lunch</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  </div> <div style="width: 50%;">    </div> </div>

<p>5</p>	<p>Randomly carrying the alcohol testing at main gate</p>
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7	"Electrical Safety for Nontrade Workman" training provided	
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8	Monkey ladders replace with Step ladder	
9	"Safety Committee" meeting conducted	

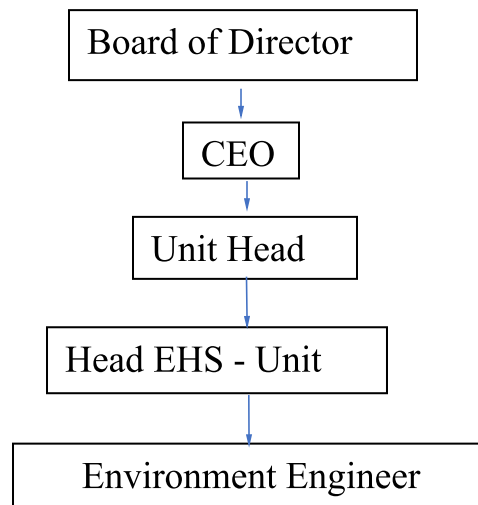
10	"Monthly Safety Gate Meeting Conducted"	
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FORMATION OF ENVIRONMENTAL MANAGEMENT CELL (EMC)

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	
	Total	1480.0	

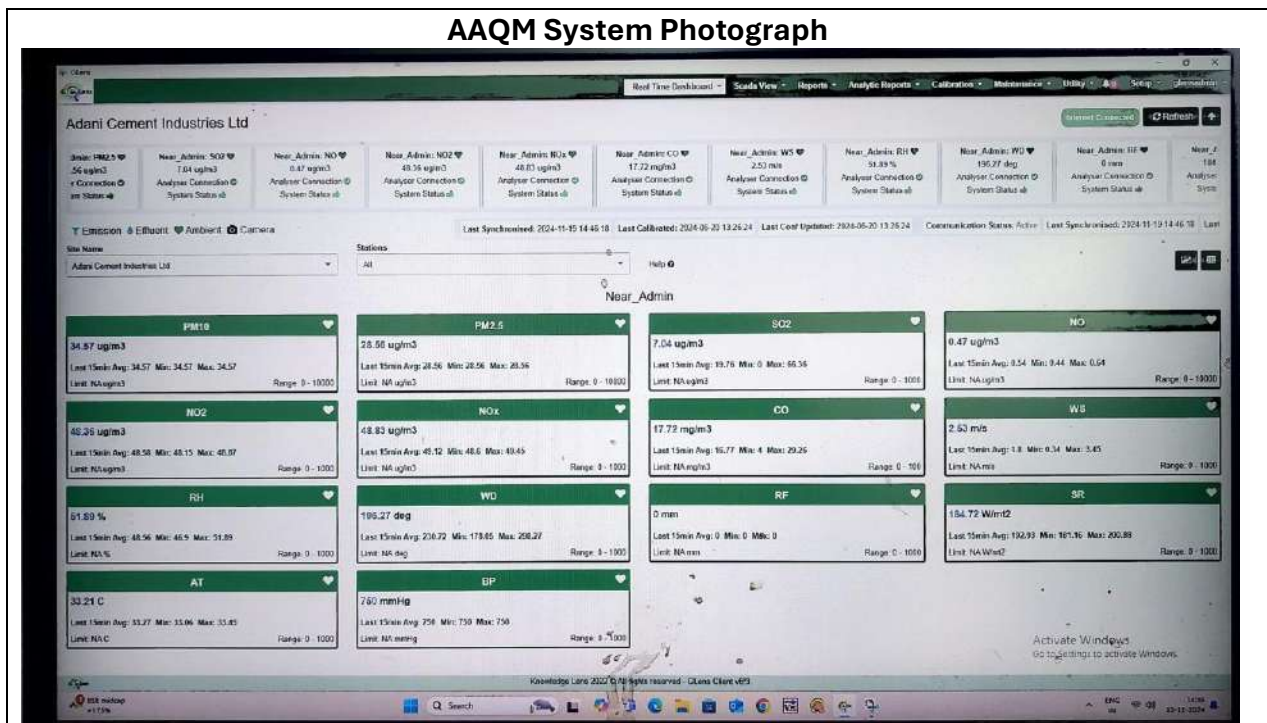
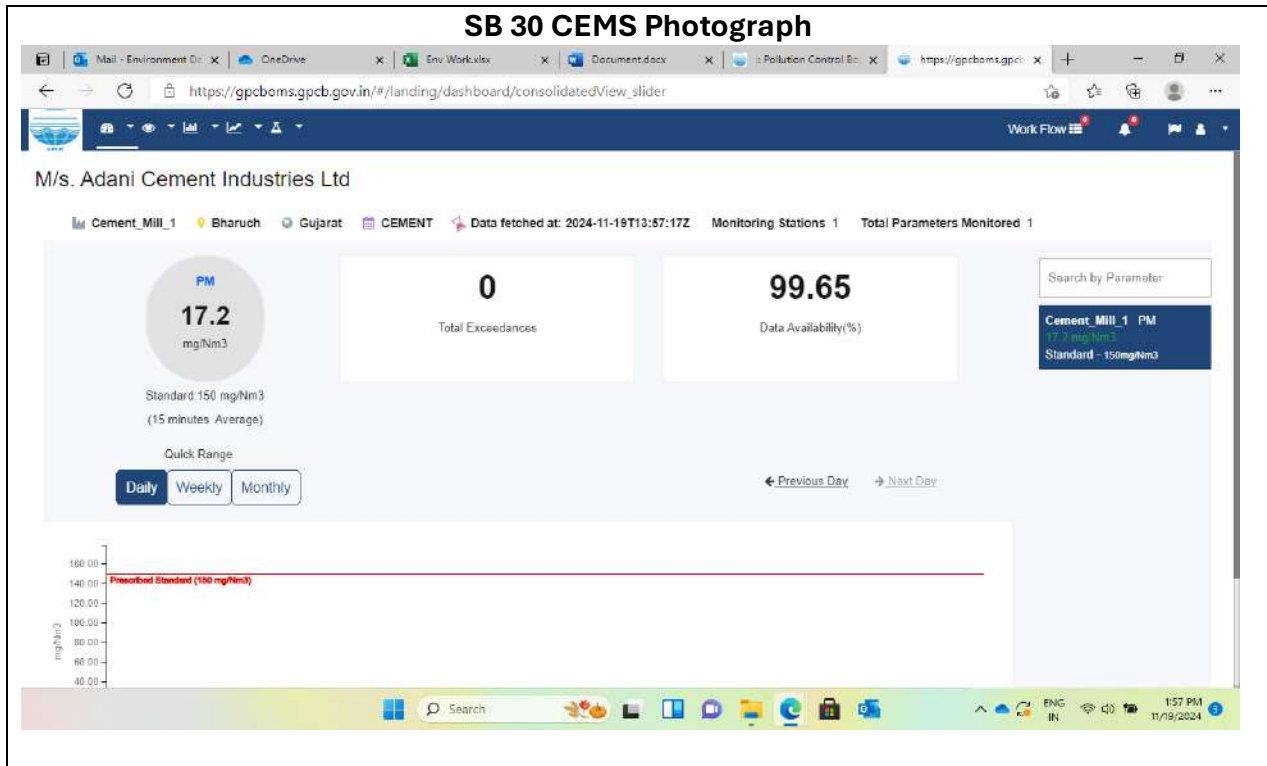
Implementation of Corporate Responsibility for Environment Protection (CREP)

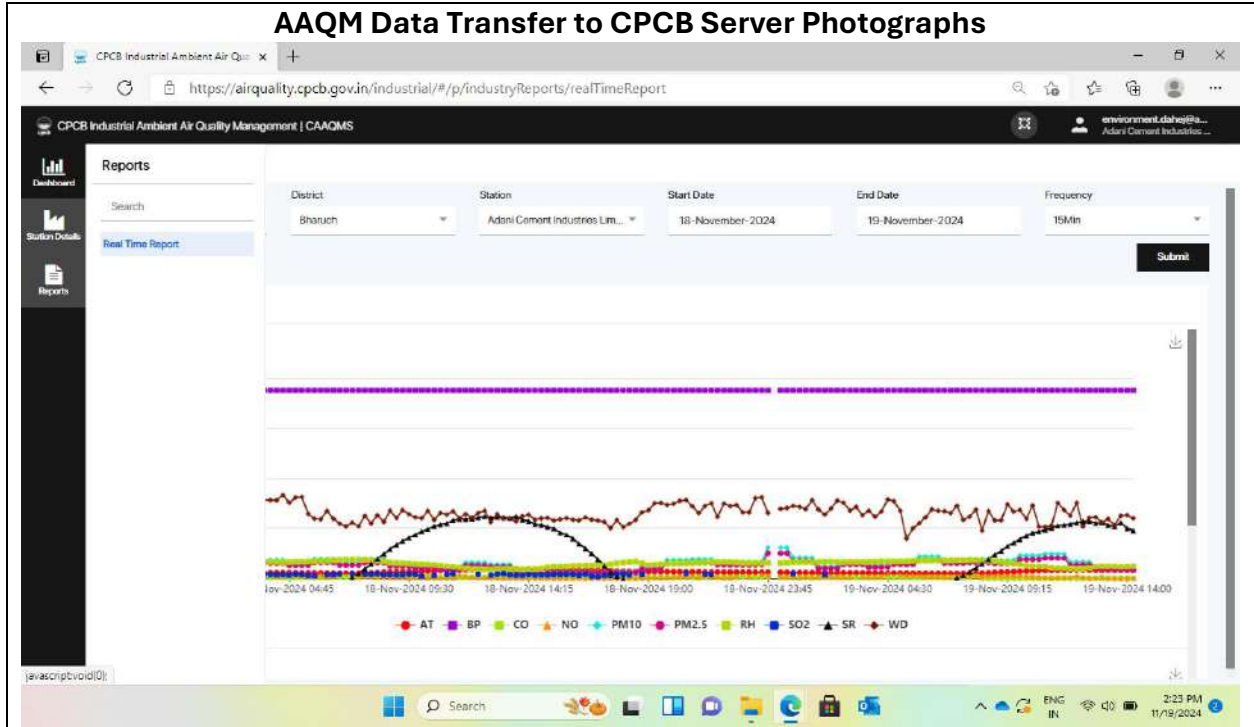
Following activities as per recommendations mentioned in CREP guidelines of CPCB for Cement Plants is being implemented:

Sr. 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 ³ limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter 50 mg/Nm ³ .	Not Applicable
3	The new cement kiln to be accorded NOC/Environmental Clearance will meet the limit of 50 mg/Nm ³ for particulate matter emission.	All Pollution Control Equipment has been designed to meet the limit of 50 mg/Nm ³ 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

ACIL Dahej Unit Bag Filter 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





CORPORATE ENVIRONMENT POLICY

As an integral part of our business philosophy, Ambuja Cements Limited part of Adani Group is committed to contribute towards ensuring a clean and sustainable environment by continually improving our environmental performance.

This policy is applicable to all units with operational and financial control and extends to our value chain, vendors, suppliers, and logistics partners. The suppliers and value chain partners are expected to adhere to the policy and develop an Environment Policy for their own operations.

To achieve this goal, we wholeheartedly and proactively commit ourselves to:

- Conduct all our operations in an environmentally responsible manner that is better than statutory environment compliances and applicable standards.
- Ensure judicious use of resources including energy, water and raw materials.
- Adopt environmentally safe and advanced process technologies along with best practices for prevention & control of risks and adverse effects of the release of our pollutants to the environment (air, water, and soil) so as to protect health and safety of our employees, contract employees, and community.
- Continuously assess our environmental impacts and measure and improve our environmental performance by adopting best practices for prevention and control of pollution.
- Make continuous efforts to increase the use of non-carbonaceous raw material, renewable energy and fuels and co-processing of wastes to reduce our greenhouse gases (GHG) footprint as part of our Climate Change mitigation initiative.
- Promote circular economy through use of alternate fuels, raw materials and reuse and recycling of waste generated.
- Comply with applicable legal and other requirements including clearances of environment, forest and wildlife, consents, permits, licenses, standards, and leading industry initiatives.

- Make continuous efforts to reduce water intensity and fresh-water usage by increased use of harvested and recycled water in our operations.
- Assess biodiversity quality in all our extraction sites and strive to create a positive impact.
- Invest in research and development of environmentally sustainable products which have a low ecological footprint.
- Set targets and objectives to reduce environmental impacts of our operations and establish continuous monitoring mechanisms.
- Achieve No Net Deforestation as part of our operations.
- Encourage value chain partners to improve their environmental performances.
- Implement and continually improve the Environmental Management System across all our operations.
- Conduct regular training employees to understand the impacts of their work activities on the environment and on judicious use of resources.
- Raise awareness of environmental management policy and environmental impacts for internal and external stakeholders.
- Carry out Environmental Due diligence at the time of business mergers and acquisitions.
- Disclosure of our environmental performance to all applicable stakeholders on a regular basis.

Roles and Responsibilities

- Unit Heads of the respective sites are responsible for the implementation of this policy and EMS at unit level in consultation with Corporate Environment Head.
- Chief Sustainability Officer oversees and holds responsibilities of overall effectiveness of the system implementation, initiatives undertaken across the organizational boundaries.
- Environmental performance and issues are communicated to Management and Board of Directors during quarterly meetings and as per the requirement.



Ajay Kapur
Chief Executive Officer
Cement Business, Adani Group















