

Cement

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

Date: 25,11,2024

The secretary

State Environment Impact Assessment Authority, Gujarat

**Gujarat Pollution Control Board** 

Paryavaran Bhavan, Sector-10A, Gandhinagar

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

3. Amendment of EC of ACIL Letter No. SEIAA/GUJ/EC/3(b)/1408/2023, Dated 02.11.2023 - Endosure 2 2. Transfer of EC to ACIL Letter No. SEIAA/GUJ/EC/3(b)/1752/2022, Dated 07.07.2022 - Enclosure 2

4. Consent to operate issued by GPCB dated 22.06.2023 - Attachment-5

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  $01^{st}$  July 2023.

This for your kind information and record.

Thanking You

For Adani Cament In Yours faithfylly

Plant Head (Ajay Sharma)

Encl.: As above

Member Secretary

Paryavaran Bhavan, Sector-10A, Gandhinagar

Gujarat Pollution Control Board

Gujarat - 382010

The Regional Office

Integrated Regional Office, Gandhinagar A wing - 407 & 409

Aranya Bhawan Near CH-3 Circle, Sector -10A, Gandhi Nagar - 382010

Deputy Director General of Forest (C), Ministry of Env, Forest and Climate Change,

Surarat Pollution Control Board
BHARUCH
29/2-427 Post Received

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

## ADANI CEMENT INDUSTRIES LIMITED

Enclosure-1

COMPLIANCE TO THE CONDITIONS STIPULATED IN ENVIRONMENTAL CLEARANCE [Vide letter No. SEIAA/GUJ/EC/3(b)/633/2019, Dated: 3rd May, 2019] FOR STAND ALONE CEMENT GRINDING UNIT OF ADANI CEMENTATION LIMITED (ACL) and EC transferred to Adani Cement Industries Limited (ACIL) [vide letter no. SEIAA/GUJ/EC/3(b)/1752/2022 dated 07.07.2022] 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

## ADANI CEMENT INDUSTRIES LIMITED

Enclosure-1

																		_		_	_	_
									В.													
		Fly ash	STP	n from	generatio	Sludge	APCM	Dust from	Non-Hazardous				Gypsum	S	container	Discarded		Rags	Cotton			
Consumptio	Storage 8	Receipt				STP	ing Process	Manufactur	dous	on	Consumpti	Storage &	Receipt		Oil Drums	Paints &	Workshop	Ce	Maintenan			
		Solid Waste				Solid Waste		Solid Waste			C-II-12	26.1/35.3/38.1/	Solid Waste			33.1			33.2			
		0.6MMTA		MT/Annum	million	0.365	MT/Annu	0.15 million				MMTPA	0.3	3	Nos./Annu	2000		kg/Annum	600			
Manufacturing	storage, receipt and	Collection, transportation,			development	Manure for green belt		100% Recycled in process		Manufacturing.	and utilize for cement	transportation, storage	Reception, Collection,		approved Recycler	Dispose through			Dispose through CHWIF	recycler	through approved	chains Oil Disease

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 03/052019.
- Rest of all the conditions of the Environment Clearance orders no. SEIAA/GUJ/EC/3(b)/633/2019, Dated O3/O5/2019 shall remain unchanged.

### Compliance

Noted and Compliance assured

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	units having Environmental Clearance as per the EIA Notification 2006, CTE & CC&A	clinker for the proposed project from the authorized • Clinker for grinding unit is	SEIAA/GUJ/EC/3(b)/633/2019, Dated 03.05.2019	Specific Condition
	being procured from Rabariyawas, Marwar, Munwa.	<ul> <li>Clinker for grinding unit is</li> </ul>		Compliance

										_							_		_	_	_
	Fly ash	STP	n from	generatio	Sludge	APCM	Dust from	Non-Hazardous				Gypsum	s	container	Discarded		Rags	Cotton			
Consumptio	Receipt				STP	ing Process	Dust from Manufactur	dous	on	Consumpti	Storage &	Receipt		Oil Drums	Paints &	Workshop	Ce	Maintenan			
	Solid Waste				Solid Waste		Solid Waste			C-II-12	26.1/35.3/38.1/	Solid Waste			33.1			33.2			
	0.6MMTA		MT/Annum	million	0.365	MT/Annu	0.15 million				MMTPA	0.3	3	Nos./Annu	2000		kg/Annum	600			
consumption for Manufacturing	Collection, transportation,			development	Manure for green belt		100% Recycled in process		Manufacturing.	and utilize for cement	transportation, storage	Reception, Collection,		approved Recycler	Dispose through			Dispose through CHWIF	recycler	through approved	chains Oil Disease

## ADANI CEMENT INDUSTRIES LIMITED

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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	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	emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986		stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.  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
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	Noted and Complied Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company is in place. Year wise fund allocation under CER is given as <b>Attachment 01</b>	Adequate air pollution control system has been provided to control fugitive dust emission at various location i.e. transfer points, raw material handling, bagging, and packing areas. Etc. All conveyors are covered with GI sheets. Finished products are dispatched by covered wagon or truck to prohibit fugitive emission. List of bag filters are given in <b>Attachment 09</b>	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 O6	the guidelines of GPCb dre being adhered.  CAAQMS has been installed data being monitored in CCR and local station. Also, regular

## ADANI CEMENT INDUSTRIES LIMITED

S.N.	26	C	3		S S	24	A3				23		3			21							20	Ţ	10	18		
Source of emission	Unit shall provide adequate APCM with generation sources as mentioned below.	generation sources as mentioned above.		Y	source of emission With	S a	Air	done to remove suspended matter	of the project to conserve	and to use the same water for the various activities-	The company sh	adequate capacity for storage of treated wastewater during rainy days	of Wastewater outside the premises in any case.	stored within premises. There shall be no discharge	effluent-may not be required for the olantarion/Gardening/Green Belt purpose, it shall be	S					ening/		Domestic wastewater generation shall be 9 KL/Day	shall be used for dust suppression and no effluent shall be discharged outside premises by any means	Total industrial effluent 171 KL/Day of cooling reject	The industrial effluent generation from the project shall not exceed 171 KL/day	authority in this regard shall be obtained.	
7	adequate s as mentio	s as mention		(meter)	Height	mentioned below:		spended ma	o conserve	ne water fo	shall harvest rainwater from the	for storage	side che pre	nises. There	na/Green E	eason					on within p	sewage shall	iter genera	dust suppr	luent 171 K	Jent gener 1 KL/dav	jard shall b	and hence, treshwater require 300 KL/Day and it shall be water Necessary permission
of Ty	APCM wit	ned above.	VDCW	+	of Fuel F	nsumption		atter	e fresh water.	or the vario	t rainwate	e of treater	inises in di	e shall be	required Selt purpos	when treated					remises	shall be	tion shall	ession and emises by a	L/Day of c	ation from	e obtained.	shall be i mission fr
ype	h proce		Ltr/hour	Day	Fuel or	i for stand		ווופות וווטאר	ater. Before	ous activiti	er from t	d wastewa		no dischar	for the second	sew						reused	be 9 KL/D	no efflue any means	ooling reje	the proje	1	met through
Stack / V Height		= 0 0 5 > 3	-	Air Pol	emissions	·	-1	-				-	of Z	ge	- Fe		e e	P Su	SD	wast belt	The	-			-+			# <del>2</del>
Vent Air Meas	Complied	All equipment are with pollution devices to main emission well willimits at bag filter.	PN, 302, NO. height	5 3	ons i.e.,	mentioned above		Urrocimient 17	Photographs		RWHS has		Noted and complied			Noted and complied	closed as A	suppression. Photographs	~	ilt development stewater is use	e trea	D has beer	Noted and compiled One_STP's_with_cap		Noted and complied	Noted and complied		
Air Pollution ( Measures (APCM)		}; ?; ° °	height	(APCM)	Control	compi			are enclosed		RWHS has been installed plant to rooftop rainwater.		molied			mplied		of STPs		wastewater is used for belt development and	treated do	KLD has been installed at plant.	STP's with capacity of 10		mplied	mplied		
N)		installed control ain the hin the	Sign CX	doc-b	Measure	ed do			osed as		er.						12	os are	•	r green water	domestic	it plant.	y of 10					

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	All the hazardous waste care as mentioned below Type of Source Waste	All the hazardous waste macare as mentioned below;  Type of Source Cawaste  Waste 20	Ambient Air Quality levels standards stipulated by the standards stipulated by the standards stipulated by the standards stipulated by the standards are found to limits, necessary additional taken immediately. The locate immediately. The locate immediately. The locate immediately. The locate immediately. The SOLID/HAZARDOUS WASTE All the hazardous waste macare as mentioned below;  Type of Source Hawaste	monitoring of g  \$\M_{2.5}\$, \$O_2 & NOx  zone and its re  zone and its re  Air Quality leve  decessary addition  nmediately. The  tly of monitor  ation with the GF    AZARDOUS WA    hazardous waste  mentioned below  of   Source	company shall install avextraction system to sions at various material rial loading, unloading, ding, bagging and packing, bagging and packing, bagging and packing control of the fugitive emission	Internal roads shall be oproperly to reduce the properly to reduce the vehicular movement.  The company shall instal and extraction system emissions at various material loading, unloading stacking, bagging and particle issued by the control of the fugitive emistacking, bagging and particle issued by the control of the fugitive emistacking, PM <sub>2.5</sub> , SO <sub>2</sub> & NOx impact zone and its read ambient Air Quality levels standards stipulated by the consultation with the GPC solution with t	Accumulated dust on the shall be removed / swept after sweeping Internal roads shall be properly to reduce the vehicular movement. The company shall instrand extraction system emissions at various material loading, unload stacking, bagging and p of Practice issued by the control of the fugitive en Regular monitoring of g PM <sub>10</sub> , PM <sub>25</sub> , SO <sub>2</sub> & NOx impact zone and its reaming and p these levels are found limits, necessary addition taken immediately. The frequently of monitoriconsultation with the GF SOLID/HAZARDOUS WA All the hazardous waste care as mentioned below Type of Source	ated dust on the removed / swept seping roads shall be to reduce the roads shall instruction system is at various matioading, unload being and price issued by the fugitive en monitoring of gone and its recone and its re	Water shall be sprayed on all raw mater periodically to retain some moisture except wet gypsum to reduce the fugitive. All transfer points shall be fully enclosed Accumulated dust on the ground and o shall be removed / swept regularly and w after sweeping.  Internal roads shall be either asphalt properly to reduce the fugitive emit vehicular movement.  The company shall install adequate duand extraction system to control the emissions at various material handling at material loading, unloading, conveying, stacking, bagging and packing etc.) Gu of Practice issued by the CPCB for properly to find the fugitive emission shall be control of the fugitive emission shall be standards stipulated by the CPCB for properly and its records shall be carried impact. Zone and its records shall be standards stipulated by the GPCB. If these levels are found to exceed the limits, necessary additional control means taken immediately. The location of the frequently of monitoring shall be consultation with the GPCB.  SOLID/HAZARDOUS WASTE  All the hazardous waste management care as mentioned below;  Type of Source Category as Waste Faz. Waste Face of the first of th	Enclosure shall be prounloading operations. Water shall be sprayed operiodically to retain significant wet gypsum to read after sweeping after sweeping internal roads shall be properly to reduce the vehicular movement.  The company shall instrand extraction system emissions at various material loading, unload stacking, bagging and pof Practice issued by the control of the fugitive en Regular monitoring of gambient Air Quality leve standards stipulated by these levels are found limits, necessary addition taken immediately. The frequently of monitor consultation with the GF Solid/HAZARDOUS WA All the hazardous waste care as mentioned below Waste
מט עפו	w;  Category as per	ASTE  .e management shall be .w;  Category as per (	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.  SOLID/HAZARDOUS WASTE All the hazardous waste management shall be taken care as mentioned below:  Type of Source Category as per Quanti	Regular monitoring of ground level concentration of PM <sub>10</sub> , PM <sub>25</sub> , SO <sub>2</sub> & NOx 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.  SOLID/HAZARDOUS WASTE  All the hazardous waste management shall be taker care as mentioned below:  Type of Source Category as per Quanti	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.  Regular monitoring of ground level concentration of PM <sub>10</sub> , PM <sub>25</sub> , SO <sub>2</sub> & NOx 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.  SOLID/HAZARDOUS WASTE  All the hazardous waste management shall be taker care as mentioned below:  Category as per Quanti	e either asphalted or paved the fugitive emission during tall adequate dust collection to control fugitive dust terial handling areas (i.e. Raw ding, conveying, transporting, packing etc.) Guidelines/Code the CPCB for prevention and mission shall be followed.  Ground level concentration of x shall be carried out in the records shall be maintained, els shall not be exceeding the best shall not be exceeding the location of the stations and incomplete shall be decided in PCB.  ASTE  Category as per Quanti	Accumulated dust on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping internal roads shall be either asphalted or paved properly to reduce the fugitive emission during vehicular movement.  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.  Regular monitoring of ground level concentration of PM <sub>10</sub> , PM <sub>25</sub> , SO <sub>2</sub> & NOx 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.  SOLID/HAZARDOUS WASTE  All the hazardous waste management shall be taken of Source  Category as per Quant	he ground and other surt regularly and water that a either asphalted or he fugitive emission of the control fugitive terial handling areas (i.e ding, conveying, transpopacking etc.) Guidelines the CPCB for preventio mission shall be followed ground level concentratives with the control measures shall not be exceedingly the GPCB. If at any of to exceed the presonal control measures shall be decided the presonal presonal control measures shall be decided the presonal control measures shall be	Water shall be sprayed on all raw materials stockp periodically to retain some moisture in top lay except wet gypsum to reduce the fugitive emission. All transfer points shall be fully enclosed Accumulated dust on the ground and other surface shall be removed / swept regularly and water the arafter sweeping to reduce the fugitive emission during vehicular movement.  The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various material handling areas (i.e. Regular monitoring and packing etc.) Guidelines/Co of Practice issued by the CPCB for prevention a control of the fugitive emission shall be followed.  Regular monitoring of ground level concentration PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> & NOx shall be carried out in a control of the fugitive levels shall not be exceeding a standards stipulated by the GPCB. If at any states these levels are found to exceed the prescrib limits, necessary additional control measures shall taken immediately. The location of the stations a frequently of monitoring shall be decided consultation with the GPCB.  SOLID/HAZARDOUS WASTE  All the hazardous waste management shall be tall care as mentioned below:  Category as per Que	Enclosure shall be provided at all loading and unloading operations.  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.  All transfer points shall be fully enclosed  Accumulated dust on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping internal roads shall be either asphalted or paved properly to reduce the fugitive emission during vehicular movement  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 carried out in the impact zone and its records shall be maintained.  Regular monitoring of ground level concentration of PMno, PM25, SO2 & NOx shall be carried out in the impact zone and its records shall be maintained and 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.  All the hazardous waste management shall be taken care as mentioned below:  Category as per Quant
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Management of HW	oten alia nell'il combilea	SOLID/HAZARDOUS WASTE  All the hazardous waste management shall be taken   Noted and being complied								

9 9 8 3 7 ± 5 5 5	25 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	51 <b>m</b>	50 The pren thre if the land or s		# 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등
study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.  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 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	IA.III dated 09/08/2018 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 a, it's APCM through the credible institutes and	OTHER CONDITIONS  Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No.22-34/2018-	unit shall develop green belt within the nises as per the CPCB guidelines, consisting of e rows of trees of local species on periphery. He adequate land is not available within the funit shall take up adequate plantation at suital on roadsides and other open areas in nearby schools in consultation with the Gram Paner and submit an action plan of plantation is vears to the GPCB.		Green bell 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.
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	enclosed as <b>Attachment-2</b> Noted and compliance assured	<ul> <li>Noted.</li> <li>Compliance to the applicable standard conditions are</li> </ul>		It is planned to complete 33% of plant area before end of year 2025. Considering 2nd & 3rd phase of plantation.  Photographs of the existing green belt aera are enclosed as <b>Attachment-14</b> for your perusal.	3% of Noted and compliance lance assured.  cover 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

## ADANI CEMENT INDUSTRIES LIMITED

shall Noted	The company in a time bound manner shall	7
NOCEO	ine SEIAA may revoke of suspend the diedicine, in implementation of any of the above conditions is not found satisfactory.	72
Noted	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	7
Noted	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	70
Noted and Complied  (This compliance report is from April-2024 to September-2024 being submitted by ACIL for Dahej Cement Grinding Unit)	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.	69
Noted	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.	68
<ul> <li>Complied</li> <li>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)</li> <li>Copy of advertisement is enclosed as Attachment-4</li> </ul>	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.	67
Environmental Pollution Control Measures (EPCM) including CER & CSR in EIA report to be used for implementation of stipulated conditions simultaneously with construction activities	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.	66
ind compliance assured		65
	(Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a	

MEMBER SECRETARY SEIAA (GUJARAT) ASAV P. GADHVI



### GOVERNMENT OF INDIA MOE & CC

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

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

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

Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/3(b)/1752/2022 Dated 07/07/2022

Date:

2 NOV 2023 ByRPAD

2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted M/s. Adam Coment 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. In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification,

And whereas SEIAA has granted Environment Clearance vide onice of the SEIAA/GUJ/EC/3(b)/1752/2022 Dated 07/07/2022, under the provisions of the aforesaid Notification. granted Environment Clearance vide office order letter ģ

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:

- 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.
- ωΝ Proponent shall carry out various measures for dust mitigations etc
- 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):

) - 8		emission with capacity DG Set (500 KVA)	neight (meter)		MT/Day 25 Litter/hr.	i.e. Air pollutants PM, SO2, NOx	measures  Adequate stack height
_ Z	9 :	emission with capacity DG Set (500	height (meter)		of fuel MT/Day 25 Litter/hr.	emission i.e. Air pollutants PM, SO2,	control measures Adequate
		DG Set (500 KVA)	18		25 Litter/hr.	PM, SO2,	Adequate stack height
		Hot Air generator	70	Coal / Diesel 100 / LNG OR/ MT/day, *Bio Diesel KL/Day,	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

-EC Copy Uploaded i Oxfore or Custrate Parkutson (Gorero) i Braced, 2/Pary ever on Bhavan" Sector-10 A, Gandhinagar-382010 Page 1 of 2 - Note: IP of machine is captured by the Phone divor. (079) 232-32152, 232-485 14 of at Note (079) 232-22784101.

E-mail: msseiaagi@gmail.com, Website:- www.seiaa.gujarat.gov.in

#### MEMBER SECRETARY PRAKASH K. MAJMUDAR SEIAA (GUJARAT)



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

No. SEIAA/GUJ/EC/3(b)/ 1752-12022

Date:() -1 JUL 2022 BY R.P.A.D.

(Under the provision of Environmental Impact Assessment (EIA) Notification, 2006) Transfer of Environment Clearance Order No:- SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019

Clearance granted to M/s. Adami 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 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

SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019, under the provisions of the aforesaid Notification And whereas SEIAA has granted Environment Clearance vide 5

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

SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2019 is hereby transferred to M/s. Adani Cement Industries Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on The SEAC, Gujarat had recommended the project vide their letter dated 21/05/2022 to grant transfer in Limited from M/s. Adani Cementation Limited. 24/03/2022. The proposal was considered by SEIAA, Gujarat in its meeting held on 01/07/2022 at careful consideration, Environment Clearance

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. The name of the unit read as "Adani Cement Industries Limited" in place of "Adani Cementation

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/3(b)/633/2019, Dated 03/05/2018 shall remain unchanged

Member Secretary (PRAKASH K. MAJMUDAR) MULL 3:

Issued to:

SEIAA E

Adani Corporate House, Adani Cement Industries Limited

Shantigram, Near Vaishno Devi Circle,

S.G. Highway, Khodiyar,

Ahmedabad -382421

Copy to:-

2

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

Office: Gujarat Pollution Control Board. "Paryavaran Bhavan" Sector-10 A. Gundhinagar-382010
Phone No.:- (079) 232-32152.232-41514. Fax No.:-(079) 232-22784
b-mail: mssenagta gmail.com. Website: www.sciaa.gujar.c.gov.in

EC transfer letter Uploaded in XGN on 28/07/2022 18:02:22 from IP No: 172.16.31.15.
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#### MEMBER SECRETARY S. M. SAIYAD, IFS SEIAA (GUJARAT)



### STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/3(b)/ 6 33 /2019

Sub:

Date: 3 MAY 2019

ByRPAD

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, 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 - Sharuch. In Category 3(b) of Schedule annexed with ElA Notification dated 14/09/2006. Time Limit

Reft. Your Proposal No. SIA/GJ/IND/30696/2017.

This has reference to your application along with EIA report dated 04/02/2019 submitted to SEIÄÄ, 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, 175/P, 178/P, 178/P, 187/P, 188/P, 189/P, 190/P, 190/P, 190/P, 186/P, 186/P, 126/P, 126 products, which falls in the category - 3(b) of the schedule of the EIA Notification-2006.

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

The project activity is covered in 3(b) and is of '8' Category. Public hearing was conducted on 07/12/2018.

The SEAC, Gujätgt 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 25/02/2019. 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 ance of the following conditions.

## 1 SPECIFIC CONDITION:

- Project proponent shall produre raw materials like clinker for the proposed project from the authorized units having Environmental Clearance as per the EIA Notification 2006, CTE & CC&A.
- from the premises. Complete Zero Liquid Discharge [ZLD] status shall be maintained all the time and there shall be no drainage connection
- compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent. monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly mentioned in EIA report under Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office The project proponer is shall allocate the separate fund of Rs. 6.65 Crores i.e. 1.2 % of the capital investment for activities Memorandum No. F.No.22-65/2017-IA.III déted 01/05/2018. The entire activities proposed under CER shall be
- Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-54/2018-IA.III dated 09/08/2018 fc; Stand-alone Cement grinding units without Captive Power Plant as mentioned at Sr. no. xii.

CPGE online servers and calibrate these system from time to time according to equipment supplier specification through the land subsequent amount of time according to equipment supplier specification through the land subsequent and calibrate these system from time to time according to equipment supplier specification through the land subsequent index Environment (Protection) Act, 1986 or NABL accredited laboratories. tyroject proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack Representation of the standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated

project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State

ernment and/or any other statutory authority.

Office: Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010
Phone No.:- (079) 232-32152,232-41514 Fax No.:-(079) 232-22784

Page 1 of 5

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

  The APCM shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlet.

  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
- 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
- 3 Regular periodic preventive maintenance of the air pollution control systems shall be carried out during the operation
- 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.
- 8 The fugitive emission in the work zone environment and ambient air quality shall be monitored. The emission shall confirm to the standards prescribed by the concerned authorities including Director of industrial Health and Safety as well as Gujarat Pollution Control Board from time to time. Following indicative guidelines shall be followed to reduce the
- Enclosure shall be provided at all loading and unloading operations.
- Ē Water shall be sprayed on all raw materials stock pile periodically to retain some moisture in top tayer except wet gypsum to reduce the fugitive emission.
- All transfer points shall be fully enclosed.

œ

- 0 9 Accumulated dust on the ground and other surfaces shall be removed I swept regularly and water the area after internal roads shall be either asphalted or paved properly to reduce the fugitive emission during vehicular
- 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.) Guitlelines / Code of Practice issued by the CPCB for prevention and control of the fugitive emission small be followed.

Sand its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If said 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. A A37 Regular monitoring of ground level concentration of PM10, PM2.5, SO2 & NOx shall be carried out in the impact zone

] 2	Wenderproperty and the	I , , , , I	38. All the nazardous waste inallagelitati sitati se anci care as inclinativa union.		The bolom.
S.N.	Type of Waste	Source	Category as per Haz. Waste Rules, 2016	Que	Quantity, MT/ Annum
<b>A</b>	Hazardous				
	Used Oil	Utilities & Operation	5.1	0.1	0.1 MT/Annum
N	Cotton Rags	Maintenance /	33.2	8	600 kg/Annum
ယ	Discarded containers	Paints and oil drums	33.1		2000 Nos./Annum
œ	Non Hazardous	ere e.			
4	Dust from APCM	Mańufacturing	Solid Waste		0.15 Million MT/Annum
ch	Sludge generation from STP	STP	Solid Waste		0.365 MT/Annum
co.	Gypsum	Receipt, Storage & Consumption	Solid Waste		0.1MMTA
7	Fly ash	Receipt, Storage &	Solid Waste		0.6MMTA

- Proper ventilation shall be provided in the work area.
- Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised
- First Aid Box shall be made readily available in adequate quantity in the unit.
- A 5 S Regular periodic work zone ambient air monitoring shall be carried out for measuring concentrations of cement dust,

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

Yours shparely,
Pack A. SalvaD Mr. Sanjay Prasad (DGM), CI-28, Ground Floor, South Block, Adami Corporate House, Shantlgram, S G Highway, Ahmedabad- 382421

Office: Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010
Phone No.:- (079) 232-32152,232-41514 Fax No.:-(079) 232-22784
E mail - macainani@mail cam Wahriba-, www saisa milisast nov in

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## Under CER activity 2024-2025

#### Background

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

- 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
- Drinking water supply,
- 4- Sanitation,
- 6- Education 5- Health,
- 7- Skill development,
- 8- Roads,

# 9- Cross drains, B-Contribution to various Govt. Schemes: (0.23 Cr.)

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

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

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

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

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

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

- Functions for CER implementation:

  Monitor the overall implementation of the CER activities and the disbursement of the funds.

  Examine the annual targets and activities of proposed CER allocated.
- ₹ # F F
- of progress made, targets achieved, and performance of the activities carried out. Ensure that the funds are used only for the prescribed for CER activities. Review the progress of the targets and activities of proposed CER allocated. Prepare the half yearly report for the compliance providing evaluation and documentation
- <u>≦</u>. ≤. <
- ACIL shall release funds annually as per the allocated budget for various CER activities. A  $3^{rd}$  party annual audit of the CER activities shall be carried out.

### **ATTACHMENT - 2**

## Stand Alone Dahei 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

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  life hief the be tate port thly

Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads shop floors, roof regularly.	Pollution control system in the cement plant shall be provided as per the CREP guidelines of CPCB.	lacilities to percel manifestatice of page.	The project proponent shall provide leakage detection and mechanised bag cleaning		stack emission and fugitive emission standards.	points including fugitive dust from all vulnerable sources, so as to comply prescribed	Appropriate Air Pollution Control (APC) system	oring report.	MoEF&CC, Zonal office of CPCB and Regional	quality fugitive emissions to regional office of	and air quality monitoring and results of manual	summary report of continuous stack emission	The project proponent shall submit monthly	Large plants Continuous)	direction (case to case basis small plant Manual,	120° each), covering upwind and downwind
onery Regular water sprinkling on the roads and truck clean parking area is done being through water tanker.	plant Compliance to the Corporate Responsibility for nes of Environment Protection (CREP) is enclosed as Attachment 02	bag house.  Mechanized bag cleaning devices have been installed for all bag filters for efficient operations.	leakage Noted and Complied  cleaning A leakage bag detector has been installed at VRM	products are dispatched by covered wagon or truck to prohibit fugitive emission. List of bag filters are given in <b>Attachment 10</b>	handling, bag conveyors are		stem Noted and Complied		ional nthly	ce of	anual and MoEFCC. Attachment 06		nthly Monthly Summary report of emission and AAQM		nual,	wind as Attachment - 06



₽	<b>=</b> :				
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	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.		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).	Water quality monitoring and preservation  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 9th May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to	ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses cement bagging plants.
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	Noted	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	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 most plant is used for green belt development.	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	The ventilation system for tunnels, packing plants and compressor rooms has been designed and implemented.

#### adani Natural Resources

Provide so	IV. Energy Co	=		Noise leve prescribed i. shall be su ministry au report.	III. Noise mon	The projec minimize of plant com practicing water.	Water met all unit pro viii.	
Provide solar power generation on roof tops of buildings, for solar light system for all common	Energy Conservation measures		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 nighttime	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 and prevention	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.	Water meters shall be provided at the inlet to all unit processes in the cement plant	
Initiatives towards reduction power consumption have been taken.		The copy of noise monitoring report is attached in Attachment 06	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 nighttime respectively.	Noise monitoring is periodically carried out through NABL recognized laboratory. The copy of the noise monitoring report is attached in <b>Attachment 06.</b>		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.	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.	



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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.	The PP shall provide Personal Protection Equipment (PPE) as per the norms of the Factory Act.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Public hearing and Human health issues	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.		greenbelt shall inter alia cover the entire periphery of the plant.
Not Applicable.  No housing facility is proposed for construction labour within the proposed project area.  However mobile toilets, drinking water facilities are being provided.  Medical health care and crèche facilities are already running by Adani Foundation in a nearby village.	Noted and complied.  PPE's have been made mandatory for all workers, employees, and visitors, and incorporated in regular practice. PPEs are regularly issued and recorded as per the Factory Act.	Noted and complied.  Emergency preparedness plan, Disaster management plan and HIRA has been prepared and implemented.		Efforts are being taken for reduction of Green House Gases in terms of CO2 by installation of LED lights. The CO2 emissions inventory report is being generated on a monthly basis.	It is planned to complete 33% of the plant area before the end of the year 2025. Considering the 2 <sup>nd</sup> & 3 <sup>rd</sup> phase of plantation.  Photographs of the existing green belt aera are enclosed as <b>Annexure-15</b> for your perusal.	Plantation is being carried out in a phased manner.  About 1000 trees have been planted during the 1 <sup>st</sup> phase of plantation all along the plant boundary covering about 1 ha. Area.

₽	<b>:</b> :		<del></del>		×	<u></u> .	.<		
The project proponent shall upload the status of compliance of the stipulated environment of clearance conditions including results of	The copies of the environmental clearance shall he 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.	one shall he in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	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	ect proponent shall n nental clearance gra	Miscellaneous	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	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.	earmarked for environmental protection
Noted and Complied	Noted and complied.	<ul> <li>Copy of advertisement is enclosed as</li> <li>Attachment-4</li> </ul>	the SEIAA for this project is published on 14th May 2019 both in "INDIAN EXPRESS" (English) and "GUJARAT SAMACHAR" (Gujarati)	Complied  Information to the public regarding EC issued by		CREP is being implemented.  Compliance to the Corporate Responsibility for Environmental Protection (CREP) is enclosed as Attachments 8A	Noted and Compliance assured	expenditure incurred out during the period is given as Attachment 09	The detail of the CSR & CER activities along



×.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during	Noted and Compliance assured.  Commitments made in the EIA/EMP report are being followed. The detail of EIA/EMP expenditure
	presentation to the Export Appraisal Committee.	are attached as <b>Attachment 03</b>
×	No further expansion or modifications in the plant shall be carried out without prior approval	Noted and Compliance assured
	of the Ministry of Environment, Forests and Climate Change (MokF&CC).	
	Concealing factual data or submission of false/fabricated data may result revocation of	Noted
×.	this environmental clearance and attract action	
	(Protection) Act, 1986.	
	The Ministry may revoke or suspend the	Noted
<u>×</u> :	clearance, if implementation of any of the	
	The Ministry reserves the right to stipulate	Noted
<u>.</u>	additional conditions if found necessary. The	
ž	Company in a time-bound manner shall	
-	implement these conditions.	
	onal Office of this Min	Noted
	conditions the project authorities should	
XIV.	cooperation to the officer(s	
	Regional Office by furnishing the requisite data/	
	information/ monitoring reports.	
	The above conditions shall be enforced, inter-	Noted
	alia under the provision of the Water	
	(Prevention & Control of Pollution) Act. 1974,	
Ę	the Air (Prevention & Control of Pollution) Act.	
?	1981, the Environment (Protection) Act, 1986,	
	and Trans boundary Movement) Rules 2016 and	
	the Public Liability Insurance Act, 1991 along	
	with their amendments and Rules and any other	

### **ATTACHMENT - 3**

# 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
Shri Jaydeepsinh Ramsinh Rana (Sarpanch Village: Dahej, Taluka : Vagara, District:	
Sharuch): 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	We thank the representator and
Company like education, RO facility for drinking	will be carried out accordingly.
water. Company has also assured to aid us with collection of rain water in the pond. We request	97.
them to work in that direction. We also request	
the company to provide Job to the land losers	
priority.	
	<ul> <li>Part of land allotted to company get utilized as RoU. We have requeste</li> </ul>
Shri Ishwarbhai Melabhai Gohil Village:	the GIDC and The Collector to com up with a policy. Once the rules o
<u>Lakhigam, Taluka: Vagra, District: Bharuch):</u> •The project is welcomed. My survey no. is 118,	the policy get decided we will be abl
GIDC has given me the land looser form but my	of the land loser and till the polic
provided a job by the company. Also plot has not	has not been decided the issue
been allotted to me.	indirectly.
case others are getting job.	<ul> <li>Once policy will be decided, compan</li> </ul>
I supply labour, I have not been offered work	land loosers has been received for
• My son has studied MSW but still company is not	this particular project. If such cas
giving the job.	wiii de leceived, pronipc lesponse wi be given.
	<ul> <li>He will be given priority wheneve</li> </ul>
	there is a vacancy for MSW post.

## Shri. Bhavesh Gohil Village: Lakhigam, Taluka: Vagra, District: Bharuch

- How many land loosers 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 the 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?

of water is done manually. For the continuous sweeping of the road, two mounted trucks and one mounted tractor are functional. Total 5 teams t (each team comprises of 6 persons) are involved in this activity. Truck suggestions are also welcomed. conducted. Currently AAQM station near GCPTL is in function. Further green belt as much as possible and time to time monitoring will be are involved in this activity. Truck tyres are washed. Increase in the Step has been taken to prevent the coal dusting like installation of hopper dust emission from the belt conveyor; providing job to 25 local villager of tyres are washed. shield. The wind shield is 1.5 to 2 m. conveyor belt, installation of wind suppression system, covering of the Provisions have been made to prevent are provided employment indirectly. losers. Also 75 villagers of Lakhigam Lakhigam; out of which 10 are land At present, the Adani Company is jetty, installation ٥f dust

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.

# Shri Lakshman Sinh Gohil, Village Lakhigam, Taluka: Yagra, District: Bharuch

• 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

Steps will be taken positively as per suggestions given related to health.

Page **3** of **7** 

	Lakshmanbhai	Rahulkumar	Aahir	•Shri
on the website.				
details of Public Hearing is available				
•The Regional officer stated that the				
board.				
violated then you can inform the				
conditions and if the EIA norms are				
also monitor the compliance of E.C				
that state pollution control board can				
verification. Recently it is decided				
shall process for EC condition				
forest and environment department				
obtained from SEAC then state level				
level environmental clearance is				
same department and if at the state				

Village:luvara, Taluka: Vagara,Dist: Bharuch

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 take action to prevent pollution. welcome the upcoming project. The company will

#### Expressing gratitude, the technology will be set up in the company. And the work related to the development of the village will be increased gradually. modern

- <u>Manharbhai makwana majiSarpanch,</u>
   <u>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 for the guittless people and we have no problem request Adani for coming up with the solutions leaving their jobs daily. They are poor people. We the same because people have to go to the court in that. And take care for the greenbelt also.
- ullet Steps should be taken for the students of primary school walking to the school from Navinagri.
- Thank you so much. If we have the opportunities for employment, we will give information and prefer to be employed in the arms. employed in the employment.
- The incident which occurred in 2012 same. now but we show affirmation for the was unfortunate. It is a legal matter guarantees positive attitude. village has improved. The company relationship between company and And after 2012
- The company has built a bus stand in the students to go to school towards it to provide safe route for people of the village. for students, we will along with the the village and regarding the safety will work

# Shri NareshGohil, Vill: Lakhigam, Taluka: Vagara, Dist: Bharuch

- truck? Will the conveyer shut down at night or keep functioning? It is difficult to sleep at night. Is the raw material brought via sea route or via Noise pollution occurred during night hous.
- Ask to GIDC that will GIDC give its return if the land is gone in silo. We gave land 18 years ago
- •The raw material is clinker which is brought via trucks. We have analyzed places in the village. this, surveys will be done at different the noise in 16 places. Apart from
- Remarks:- GIDC representative said that while the plot is allotted to GIDC, a list of company landlords is

# Shri Narendrasinh Rana, Vill: Dahej. Taluka:

Vagara, Dist: Bharuch

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

Page **5** of **7** 

	•	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.
	•	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.
	•	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.
	•	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.
Safety is	<ul> <li>Answer Regarding mentioned above</li> </ul>	Mrs. Nirmalaben Thakorbhai Gohil Village: Lakhigam, Taluka: Vagra.  District: Bharuch  Keeping in mind the Transportation Safety for children coming from navinagari in Lakhigham, a suitable transport service is available to go to school.
		interviews should be conducted in the colleges of the Bharuch district. Gram panchayat should be informed about the same.

Page **7** of **7** 

FLOS I RITH EIDINGH

No (mgle tegita) curre urale

डिमेल अमिटिंग जान्य मोर्ड कोन्ड्यानीस जिन्नकता (इ.सी) कारावामं कार्यु थे वेली कार्या २.० कोन.कोन.दी भी को स्थेतं 1367, 1377, 1387, 1397, 1407, 1417, 1447, 1457, 1517, 1527, 1537, 1547, 1557, 1627, 1747, 1757, 1767, 1787, 1797, 1877, 1887, 1897, 1907, 1917, असर हर्षेत्र कर्न क्षेत्र को ना 1257, 1247 अल्ल क्षिण्यम, हर्षेत्र भौधों भें नेस्टें, तातृकः पाया, अस्ता भारत (अगरात). में थे.), मुख्यत क्षम महामी विभेद्रेयन विभेद्रेयी सेंद्र उस्क्रेन सेर केरत जेन्द्राजनीत हमोड्ट कोन्स्मेन कोनीरी (क्षेत्र में कार्त

अंभेडाने, पुन्न अक्टिन्ताओं ने ऐती आने पान नी संस्थाते करे

- संदर्भ केट हं आहे तो है, ज़रहता का SER-MGLHEC! 3/4/1/50/2013 CENOS (N. 3/5/1/6/2
- • राजानिक ्रिया केल्ड हो अन्तर होने के स्थानिक स्थान स्थान SPANSON PORTER OF

विसारण न टेड्स्ट्राम स्टब्स्

- भारते सुर्वितः प्रेनेत्रेत्र स्टेपरोन् प्रकृतित उक क्षेत्रो हिन्द्र पति हैत्य है, स्वेत मुख्य हैं औ. त्रसार पड़ सम्बद्ध
- शिक्ट असावित अने श्रमाची श्रीत्र, विस्तर श्री, को द्वीती कर्न BE TELEVISION AND AND
- कने शीरो विस्ते वर्णकर सभी शरोजे पात्र इत्याने खाके. भेजेंडर भरावकर्ता, मुश्कार भेटे पर्श्ववर्थित राज ग्रातीजा समर्वितराभी स्थित पर समर्थित पार्च ग्रातीजा संदेश सुर्वितक संदर्श • क्ष्मुम्बर्क नर्यादन (अंद्रक्ट) हे को , १९८६ को केंग्र को है ऐसे हैं है
- के मा कि अनु कि आहे का है अहम को है। देशने नहते जुनता क्षम नेकार के उसरे निवास होने दि अ # 55KB नेपादनीय डिस्टरस्थी कर इस्टे संदर (१) डिस्टरस SEAC/GPCB of 254 62 Www.selaa.gujarat.gov.in.ve.va प्रशेष्ट्रिक स्टूडिंग मार्ट हेतू स्टब्स्ट ३१ १४८ इस्टेड (१६८) रूपो है. १ २२६ इस्टेड (पार्टिक में मेरेस्ट अस्टेड (१६८) रूपो है. PET-FILL SE MONTH SEND NEW STANDARD LEGAN संक्षेत्र के क्षित्र के के के हैं रहत है है के इस्डोर्ग

this project is published

on 14<sup>th</sup> May 2019 in

issued by the SEIAA for

public regarding EC

Information to the

"GUJARAT SAMACHAR",

Vadodara Edition

(Gujarati)

प्रमुख म्बन्ध्य विश्वन स्थापन प्रमुख

The condition No. 4.1for 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. Name of fuel

1 Diesel
2 LNG
3 Bio Diesel
4 Coal
-- 100 MT/Day 100 MT/Day

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.

4.2

	,1	Stack No.
Flobosed	D.G. Set (Cap: 500 KVA)	Stack Stack StackHeight Air Pollution No. attached to Measure  Existing (APCM)
70 m	18 m	StackHeight
Pulse Jet Type	1	Air Pollution Control Measure (APCM)
PM SO <sub>2</sub>	SO <sub>2</sub>	Parameter
150 mg/Nm <sup>3</sup>	150 mg/Nm <sup>3</sup> 100 ppm 50 ppm	Permissible limit

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.

4.3

No. to Height (APCM)  1 Packing Plant (1 50 m Bag Filter  All Conveyor belts and transfer points (6 Nos.)(Existing)  All Raw material (1 No.) and finished product silos (2 Nos.)(Existing)  Page 2 of 4
--

Outmard No. 786132-14/03/2024

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. 4 Gypsum 35.3, 26.1, 38.1, 0.3 0.3 MMT/Year MMT/Year Reception, Collection,
Storage,
Transportation and
utilize for
Cementmanufacturing
as per CPCB guidelines
for co-processing of
Hazardous wastes.

9

For and on behalf of GUJARAT POLLUTION CONTROL BOARD
(M. R. Macwana)
UNIT HEAD-BHARUCH

Page 4 of 4

- உ 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.
- J 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.
- 9 Unit shall comply environmental guidelines for prevention and control of Fugitive Emissions from Cement Plants published by CPCB.

# CONDITION UNDER THE WATER ACT:

- 3.1 3.1 The quantity of total water consumption shall not exceed 193 KLD as per below break up:
- Domestic: 10 KLD Industrial: 174 KLD Gardening: 9 KLD
- ೧೮೫
- break up:

The quantity of total waste water generation shall not exceed 13 KLD as per below

3.2

- Industrial: 4 KLD Domestic: 9 KLD
- 3,3 ھ
- ত Mode of disposal of wastewater:

  4 KLD industrial wastewater generated from cooling tower shall be neutralized and used for dust suppression within premises. Hence, unit shall maintain ZLD.

  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.

DOD 10 4410 100	BOD (3 days 27 degree C)	per 100 milliliter, MPN/100ml)	Fecal Coliform ( Most Probable Number   <1000 MFN/1001111	TSS	pH	Parameters	pur pose	mirrose within premises.
The same and the s	<30 mg/1		<1000 MEN/ 100mi	< 100 mg/1	100 mg/l	65tn 9	Norms	

- 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
- 3.5 The GIDC drainage connection given by the GIDC for discharge of industrial effluent the unit until the contrary is proved.
- 3.6 shall be disconnected & the outlet shall be sealed. 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 on and monitoring of environment safeguards and other conditions stipulated by The Environmental Management Unit/Cell shall be setup to ensure implementation

Page 2 of 6

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

particular site taken twice a week 24 hourly at uniform intervals. Annual arithmetic mean of minimum 104 measurements in a year at a

complied with 98% of the time in a year. 2% of the time, they may exceed the 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be

4.5 and continuously so that the gaseous emission always conforms to the standards limits but not on two consecutive days of monitoring.

Unit shall operate industrial plant / air pollution control equipment very efficiently specified as above.

4.6 of the gaseous emission are not within the tolerance limits specified as above. The consent to operate the industrial plant shall lapse if at any time the parameters

4.7 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 air emissions and the same shall be open for inspection to/and for use of Board's Unit shall provide portholes, ladder, platform etc at chimney(s) for monitoring the identification.

4.8 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. and10 p.m. and nighttime is reckoned Unit shall take adequate measures for control of noise levels from its own sources

between 10 p.m. and 6 a.m. All efforts shall be made to control VOC emissions and odor problem, if any.

## **GENERAL CONDITIONS: -**

5.5

4.9

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 of land and a green belt of 5 meters width is developed. 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

Outward No. 5.3 and the electricity consumer number as on the record. the products/ process and the name of proprietor/partners /directors of the unit Unit shall put up at the entrance a board displaying the name of unit, particulars of

Page 4 of 6

7.6 The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Pollution Control Board Disposal of Hazardous Waste and Penalty"

It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility. The imported hazardous and other wastes shall be fully insured for transit as well as

for any accidental occurrence and its clean-up operation.

The record of consumption and fate of the imported hazardous and other wastes

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. The importer or exporter shall bear the cost of import or export and mitigation of

7.11

7.12 Hazardous & Other Wastes (Management and Transboundary Movement) Rules-An application for the renewal of an authorization shall be made as laid down under

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

7.14 Annual return shall be filed by June  $30^{\text{th}}$  for the period ensuring  $31^{\text{st}}$  March of the

7,15

7.16 Unit shall have to display the relevant information with regard to hazardous waste Unit shall have to display order in W.P. No. 657 of 1995 dated 14th October 2003. as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003. 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

Outward No. 745621-22/06/2023 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

7.17

FOR AND ON BEHALF OF GUJARAT POLLUTION CONTROL BOARD

(IREAN KÀGZI) ENVIRONMENT ENGINEER

Page 6 of 6

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



Environment Auditing & Consultancy Service

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.

Sr. No.	Particulars	Unit	Stack- 1
2	Date of Sampling	1	25/04/2024
02	Time of sampling	Hr.	11:45
03	Stack Attached to	1	Cement Mill
2	Air Pollution Control Measures	1	Bag Filter
05	Stack Height	Meter	70
90	Stack Diameter	Meter	ı
07	Stack Temperature	റ്	80
80	Ambient Temperature	റ്	31
90	Average Velocity of Flue Gases	m/Sec.	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	22
1	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
သ	Measured Concentration of PM.	mg/Nm <sup>3</sup>	22
14	Permissible limits for SO <sub>2</sub> .	ppm	100
3,	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
	Manager Compositation of NO	mag	0.0

Royal Environment Auditing & Consultancy Service

Analyst :

Calibration done on: 14/01/2024



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
2	Date of Sampling	1	25/04/2024
8	Time of sampling	<u>.</u> =	14:00
03	Stack/vent Attached to	1	Conveyor belt L11BC1 Vent
2	Air Pollution Control Measures	ı	Bag Filter
8	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	9 6 8
07	Stack/Vent Temperature	റ്	82
80	Ambient Temperature	റ്	31
9	Average Velocity of Flue Gases	m/Sec.	7.1
6	Isokinetic flow rate for P.M. Sampling	LPM	21
=======================================	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm³	38
4	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm .	50
17	Money and Consentration of NO		2



Royal Environment Auditing & Consultancy Service

Calibration done on : 14/01/2024



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

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.

<b>Test Method</b>
·.
S
As per IS
S
Standards -
_
11255
1/2/3/7

Sr. No.	Particulars	Unit	Stack-5
2	Date of Sampling	ı	09/04/2024
8	Time of sampling	.∓	11:00
ထ	Stack/vent Attached to	ı	Conveyor belt K11BC1 tranfer point vent
2	Air Pollution Control Measures	I	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	1
07	Stack/Vent Temperature	റ്	68
80	Ambient Temperature	റ്	32
09	Average Velocity of Flue Gases	m/Sec.	6.8
10	Isokinetic flow rate for P.M. Sampling	LPM	19.
<u></u>	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	35
14	Permissible limits for SO <sub>2</sub>	ppm	100
5	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
	Measured Concentration of NO.		0.0

Royal Engironment Auditing & Consultancy Service

Arialyst



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.

Sr. No.	Particulars	Unit	Stack- 7
9	Date of Sampling	-	09/04/2024
02	Time of sampling	Hr.	14:00
03	Stack/Vent Attached to	ì	Conveyor belt 491BC2 tranfer point
2	Air Pollution Control Measures	1	Bag Filter
05	Stack/vent Height	Meter	30
90	Stack/vent Diameter	Meter	ı
07	Stack/ Vent Temperature	ဂံ	72
80	Ambient Temperature	ಗೆ	32
9	Average Velocity of Flue Gases	m/Sec.	7.1
10	Isokinetic flow rate for P.M. Sampling	. LPM	20
<u> </u>	Gaseous Sampling Flow Rate	ГЬМ	2.0
2	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm³	26
14	Permissible limits for SO <sub>2</sub>	ppm	100
ऊ	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
	Measured Concentration of NO	ppm	0.0

Analyst



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.

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

Sr. No.	Particulars	Unit	CS-01 Vent	CS-02 Vent
2	Date of Sampling	1	25/04/2024	25/04/2024
22	Time of sampling	H.	14:45	15:30
03	Stack/Vent Attached to	1	Cement Silo -1	Cement Silo -2
04	Air Pollution Control Measures	ı	Bag Filter	Bag Filter
9	Stack/Vent Height	Meter	30	30
8	Stack/Vent Diameter	Meter	1	1
07	Stack/Vent Temperature	റ്	66	68
08	Ambient Temperature	റ്	32	33
90	Average Velocity of Flue Gases	m/Sec.	7.8	8.2
10	Isokinetic flow rate for P.M. Sampling	LPM	22	23
	Gaseous Sampling Flow Rate	LPM	2.0	2.0
2	Permissible limits for PM	mg/Nm³	150	150
ಚ	Measured Concentration of PM.	mg/Nm³	26	28
14	Permissible limits for SO <sub>2</sub>	ppm	100	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0	0.0

Royal Environment Auditing & Consultancy Service





Date: 01/05/2024

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

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.

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Sr. No.	Sr. No. Location of Sampling	Results in dB(A) (Day Time) 6:30am to 10:30pm	Results in dB(A) (Night Time) 10:30pm to 6:30am
Permissi	Permissible Limits	75.0	70.0
2.	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	(A) Leq. Night Time
>	Industrial Area	75.0	70.0
<b>ω</b> .	Commercial Area	65.0	55.0

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 Silence Zone

0 0

Residential Area

55.0 50.0

45.0 40.0







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.	Sr. No. Parameters	Unit	Permissible Limit*	STP O/L
01. <b>p</b> H	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

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









Plot No. 19 & 20, Bls. The North Star Nest School, Masoom School Road, Mota Mara, RAJKOT : 360 005.
Ph.: +91 9099919954 ■ E-mail : royalenvironment® live.com ● admin ®royalconsultancy.ccm

Ref No. 816/04/2024-25

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

Name of company: M/s. Adani Cement Industries Limited,
Plot No.13siP to 141P, 144P, 145P, 154IP to 155IP,
162IP, 174IP to 176IP, 178IP, 179IP, 187IP to 191IP of
Village: Dahej in Dahej Industrial Estate,
Tal.: Vagra,Dist.: Bharuch.

instrum	17	声	ᆄ	¥	ವ	ij	=	#	8	88	8	8	83	22	8	8	2	S. No.
highwinere Used. Ecolech make (1) RDS. APV. 277B. (2) Sweepus Pollutantis Sampler AAS-109 (3)Ecolech PM2-5 Sampler AAS-177	Measured Concentration NO.	Permissible Limits of NO <sub>2</sub> *	Measured Concentration of SO <sub>2</sub>	Permissible Limits of SO <sub>2</sub> *	Measured Concentration of PM10	Permissible Limits of PM10 *	Measured Concentration of PM2 5	Permissible Limits of PM2.5*	Average Flow Rate for Gasious	Average Flow Rate For PM10	Average Flow Rate For PM2.5	Wind Speed Velocity	Dominant Wind Direction (From)	Duration of Sampling	Date & Time - Ending of Mon toring	Date & Time Starting of Monitoring	No. of Week	Particulars
TRI CII CII		jugim <sup>3</sup>	Dg/m³	PS III	Light.	µg/m³	hāju	Part of	LP M	mJAKa	m3/Hr	Km/H	0	5	1	-	I	S.
secus Pollutants	3	8	13 1	8	83.2 2	100	32 2	8	0.2	1.13	10	1 10 18	Æ	1440	02/04/2024	01/04/2024 11:45		-
Sampler- AAS-105	24.5	8	142	. 8	65.1	100	34.1	8	02	1.12	10	1 to 15	æ	1440	03/04/2024	02/04/2024 12:00		
(3)Ecolech PM:	94 3	8	16 1	8	62 2	106	36.2	8	02	: to	10	2 to 17	æ	1440	09/04/2024 12:15	08/04/2024 12:15		
25 Samaler- AAS	39.2	8	15.1	8	691	喜	29 1	8	02	1 1	10	4 to 22	æ	1440	10/04/2024	09/04/2024 12:30	2	×
	103	8	163	8	721	100	31 1	8	02	112	10	5 to 20	¥	1440	16/04/2024 12:00	15/04/2024 12:00		Main Security
101	35.3	8	17.1	쯍	59 2	100	321	8	02	=	10	4 to 20	SE	1440	17/04/2024 12:15	16/04/2024 12:15	w	Nr. Main Security Main gate (East)
1	3	8	112	8	731	100	36 2	8	02	1.12	10	2 ю 13	æ	1440	25/04/2024 11:30	24/04/2024 11:30		ast)
1	35.	8	152	8	65 2	190	412	8	02	121	10	1 to 12	ĸ	1440	26/04/2024 11:45	25/04/2024 11:45	*	
200	35 3	8	162	8	67 1	18	392	g	02	1 16	10	3 to 18	2	1440	30/04/2024 12:15	29/04/2024 12:15		
	9	8	182	88	781	ŧ	# -	g	0.2	1.11	1.0	3 to 12	æ	1440	01/05/2024	30/04/2024 12:30	Un	

shument Used. Ecolech make (1) RDS, APV - 217BL. (2) Gazeous Politizants Sampler- AAS-109. (3)Ecolech. PM2.5 Sampler- AAS

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

Ref No. 818/04/2024-25

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

Name of company: Ms. 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: Dahejin Dahej Industrial Estate,
Tal.: Vagra, Dist: Bharuch.

õ		ᄚ	¥	ವ	ij	⇉	Ę	8	8	87	8	8	22	8	R	2	S. No.
	Permissible Limits of NO.	Measured Concentration of SO <sub>2</sub>	Permissible Limits of SQ.*	Measured Concentration of PM10	Permissible Limits of PM10 *	Measured Concentration of PM2 5	Permissible Limits of PM2.5*	Average Flow Rate for Casious	Average Flow Rate For PM10	Average Flow Rate For PM2.5	Wind Speed Velocity	Dominant Wind Direction (From)	Duration of Sampling	Date & Time - Ending of Monitoring	Date & Time Starting of Monitoring	No. of Week	Particulars
	SQ.	P) m	<u> </u>	Po a	a gray	S T	Page 1	5	m3Min	n.WHr	KNH.	1	\$	-1	T.	1	ž
36 1	8	162	8	59 1	18	38 2	2	02	113	10	1 to 18	æ	1440	02/04/2024	01/04/2024		
- 221	8	121	8	63 1	100	422	8	02	112	10	1 to 15	æ	1440	03/04/2024 12:00	02/04/2024 12:00	-	
25.3	8	Ħ	88	64.2	100	48 1	8	02	1 18	10	2 to 17 -	æ	1440	09/04/2024 12:15	08/04/2024 12:15		
223	88	16.3	88	72.1	<b>1</b>	521	g	02	114	10	4 to 22	æ	1440	10/04/2024 12:30	09/04/2024 12·30	2	
201	8	15.1	8	782	100	391	8	02	1,12	10	5 10 20	Æ	1440	16/04/2024 12:00	15/04/2024 12:00	w	Cement mill (North)
21.1	88	143	8	68 1	100	46 1	8	02	111	10	4 to 20	æ	1440	17/04/2024 12:15	16/04/2024 12:15		il (North)
242	80	17.1	8	712	100	423	8	02	1.12	10	2 to 13	æ	1440	25/04/2024 11:30	24/04/2024 11:30		
232-	88	152	8	623	100	383	60	02	121	10	1 to 12	æ	1440	26/04/2024 11:45	25/04/2024 11:45	4	
212	8	14.2	8	64.1	100	411	8	02	1.16	10	3 to 18	Æ	1440	30/04/2024 12 15	29/04/2024 12:15		
201	8	죠	8	71.2	·	322	8	02	1.12	10	3 to 12	æ	1440	01/05/2024 12:30	30/04/2024 12:30	Ch .	

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Ptot No. 19 & 20, Bls. The North Star Nest School, Massoom School Road, Mota Mava, RAJKOT - 360 005. Ph.: +91 9099919954 ■ E-mail : royalenvironment@five.com ■ admin@royalconsultancy.com

REAS/ACIL/2024-25/05-03

Date: 31/05/2024

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.

Please find enclosed following analysis report in one copy:

<ol><li>Report of Fugitive Emission</li></ol>	<ol><li>Report of Work Place Noise Level Monitoring</li></ol>	<ol><li>Report of Ambient Noise Level Monitoring</li></ol>	4. Report of Drinking Water Analysis	<ol><li>Report of National Ambient Air Quality Monitoring</li></ol>	<ol><li>Report of Stack Emission Monitoring</li></ol>	Report of Waste Water Analysis
05 Samples	06 Samples	08 Samples	01 Samples	32 Locations	10 Locations	01 Samples

Thanking you,

Yours faithfully,

Royal Environment Auditing & Consultancy Service,

Digvijay Jadeja

Encl: As above.





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.

Sr. No.	Sr. No. Particulars	Unit	Stack- 2
2	Date of Sampling	1	29-05-2024
22	Time of sampling	<u>∓</u>	11:45
03	Stack Attached to	1	Packing Plant (1 No.)
2	Air Pollution Control Measures	1	Bag Filter
8	Stack Height	Meter	50
8	Stack Diameter	Meter	ı
07	Stack Temperature	റ്	61
8	Ambient Temperature	റ്	32
99	Average Velocity of Flue Gases	m/Sec.	7.1
6	Isokinetic flow rate for P.M. Sampling	LPM	20
⇉	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
겂	Measured Concentration of PM.	mg/Nm³	19
14	Permissible limits for SO <sub>2</sub>	ppm	100
즁	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
•	Measured Concentration of NO		

Royal Environment Auditing & Consultancy Service

Calibration done on: 14/01/2024



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.

Sr. No.	Particulars	Unit	Stack- 4
21	Date of Sampling		29-05-2024
02	Time of sampling	푯	12:30
03	Stack/Vent Attached to	L	Conveyor belt 531BC1 tranfer point Vent
2	Air Pollution Control Measures	1	Bag Filter
05	Stack/ vent Height	Meter	30
8	Stack/Vent Diameter	Meter	ı
07	Stack/Vent Temperature	റ്	62
08	Ambient Temperature	റ്	32
9	Average Velocity of Flue Gases	m/Sec.	7.5
10	Isokinetic flow rate for P.M. Sampling	LPM	22
1	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
3	Measured Concentration of PM.	mg/Nm³	32
14	Permissible limits for SO <sub>2</sub>	mqq	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
	Measured Concentration of NO.	ppm	0.0

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

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
9	Date of Sampling		29-05-2024
22	Time of sampling	<u></u>	14:45
03	Stack/vent Attached to	1	Conveyor belt 491BC1 tranfer point
2	Air Pollution Control Measures	1	Bag Filter
9	Stack/Vent Height	Meter	30
06	Stack/Vent Diameter	Meter	I
07	Stack/Vent Temperature	റ്	66
08	Ambient Temperature	റ്	30
90	Average Velocity of Flue Gases	m/Sec.	7.5
10	Isokinetic flow rate for P.M. Sampling	LPM	22
1	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm³	45
14	Permissible limits for SO <sub>2</sub>	ppm	100
35	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0
struments	Instruments Used : Ecotech Stack Kit model No ESS - 100		

Royal Environment Auditing & Consultancy Service

Calibration done on : 14/01/2024





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
21	Date of Sampling	1	29-05-2024
02	Time of sampling	픘	14:45
03	Stack/Vent Attached to	1	Conveyor belt K11BC2
2	Air Pollution Control Measures	1	Bag Filter
S	Stack/Vent Height	Meter	30
8	Stack/Vent Diameter	Motor	6
07	Stack/Vent Temperature	റീ	67
80	Ambient Temperature	റ്	સ
90	Average Velocity of Flue Gases	m/Sec.	8
6	Isokinetic flow rate for P.M. Sampling	LPM	23
1	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm³	45
4	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO.	pom	

Analyst



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

## 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 Co	Sample Collection Date :29/05/2024		
		Results in db(A)	In ab(A)
Sr. No.	Location of Sampling	Day Time 06:30am to 10:30pm	Night Time 10:30pm to 06:30am
	Demissible Limits for 08:00 Hrs.	90.0	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
	Model SI 4030 (Lutron)	on)	

Instruments used: Sound level meter, Model: SL 4030 (Lu Range: A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB. Calibration is done on: 17/05/2024







Ref. No: 915/05/2024-25

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.	рН	pH Units	6.5 to 8.5	7.5
02.	Colour	Hazen	Ch	Colourless
03.	Turbidity	UTU	_	< 1.0
94	Total Dissolved Solids	mg/l	500	125
05.	Total Suspended Solids	mg/l	ı	ಚ
06.	Total Solids	mg/l	1	140
07.	Chlorides	mg/l	250	52
.80	Sulphates	mg/l	200	12.9
.00	Total Hardness (As CaCO <sub>3</sub> )	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
4	Flouride	mg/l	1.0	0.06
ङ	E-Coli	MPN/100ml	Absent	Absent

Royal Environment Auditing & Consultancy Service





Date: 31/05/2024

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

Ref No: 917/05/2024-25

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 N	ranculais	S A						Factoring Flain (Jouin)	r acomy	Factority Flair (Journ)
유	No. of Week	ı		_	2			4.5	(A)	cu .
25	Date & Time Starting of Monitoring	.1	06/05/2024 09:00	07/05/2024 09:10	13/05/2024 09:30	14,0	14/05/2024 09:40	5/2024 20/05/2024 9:40 10:00		20/05/2024 10:00
ස	Date & Time - Ending of Monitoring	t	07/05/2024 09:00	08/05/2024 09.10	14/05/2024 09:30	15/05	15/05/2024 09:40	5/2024 21/05/2024 140 10:00		21/05/2024 10:00
2	Duration of Sampling	A.	1440	1440	1440	_	1440	440 1440		1440
8	Dominant Wind Direction (From)	1	Æ	æ	æ		æ	SE NE		æ
8	Wind Speed Velocity	Km/H	2 to 13	1 to 13	2 to 12		2 to 16	ਰ	to 16	to 16 3 to 16 1
.07	Average Flow Rate For PM2 5	m3/Hr	10	1.0	10	-	10	10 10		10
88	Average Flow Rate For PM10	märklin	113	1.12	1.18		14	114 1.12	4	1.12
8	Average Flow Rate for Gasious	LPM	0.2	02	02		0.2	0.2 0.2		02
5.	Permissible Limits of PM2.5 *	þgím³	60	60	89		8	60		60
#	Measured Concentration of PM2 5	hgim³	41.5	403	45.8		51.6	51.6 40 6		40 6 36
Þ	Permissible Limits of PM10 *	Hg <sup>dm³</sup>	100	100	100		100	100 100		100
3	Measured Concentration of PM10	µg/m³	63.8	62.5	70.5		73.5	73.5 59.3		593 63
#	Permissible Limits of SO; *	µg/m³	80	80	80		8	80		88
访	Measured Concentration of SO <sub>2</sub>	µg/m²	14.5	123	136		175	175 135		13.5
奇	Permissible Limits of NO <sub>2</sub> *	hōtm.	80	80	80		88	80 80		80
17	Honound Concentration of MO	ngm <sup>3</sup>	20.3	23 6	251	181	22.4	22.4 19.6		196

Calibration Done on: 13/01/2024

Royal Environment Auditing

& Consultancy Service, Rajkot





Ref No 919/05/2024-25

#### 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.: Yagra,D/st.: Bharuch.

17	赤	5	7	ಪ	ri,	=	₽	æ	8	8	8	8	2	8	R	2	N 9
Measured Concentration of NO <sub>2</sub>	Permissible Limits of NO <sub>2</sub> *	Measured Concentration of SO <sub>2</sub>	Permissible Limits of SO2 *	Measured Concentration of PM10	Permissible Limits of PM10 *	Measured Concentration of PM2.5	Permissible Limits of PM2.5*	Average Flow Rate for Gasious	Average Flow Rate For PM10	Average Flow Rate For PM2.5	Wind Speed Velocity	Dominant Wind Direction (From)	Duration of Sampling	Date & Time - Ending of Monitoring	Date & Time Starting of Monitoring	No. of Week	Particulars
µg/m <sup>3</sup>	pg/m³	iligim)	Fg fri	μg/m <sup>2</sup>	Đ.	Infed m	ьбр.	[PM	mJAMan	n3.Hr	¥₩.	1	F	F	1	ř	Unit
21.4	88	126	80	615	100	352	80	02	113	1.0	2 to 13	Æ	1440	07/05/2024 12:00	06/05/2024 12:00		
236	8	13.5	8	<b>58</b> .3	100	416	8	02	1.12	10	1 to 13	ĸ	1440	08/05/2024 12:15	07/05/2024 12:15	_	
25 4	8	152	8	62.8	196	44.8	8	02	1 18	1.0	2 to 12	æ	1440	14/05/2024 12:30	13/05/2024 12:30		
223	88	162	8	692	8	51.3	8	02	114	1.0	2 to 16	æ	1440	15/05/2024 12 45	14/05/2024 12:45	12	Clinker
21.6	8	115	8	63 5	100	396	8	02	1 12	10	3 to 16	NE	1440	21/05/2024 13 00	20/05/2024 13:00		Clinker Silo (West)
236	8	15.4	88	518	100	338	90	02	==	10	1 to 16	ĸ	1440	22/05/2024 13:15	21/05/2024 13:15	t.	
24.8	88	16.5	8	67.5	100	36.8	80	02	112	10	3 to 15	es es	1440	2805/2024 13:15	27/05/2024 13:15		
225	8	135	8	682	100	426	2	02	121	10	3 to 14	æ	1440	29/05/2024 13:30	28/05/2024 13:30	4	

Analyst

Royal Environment Auditing & Consultancy Service, Raphot

California Down on 13612024



Plot No. 19 & 20, B/s. The North Star Nest School, Massoom School Road, Mota Mava, FAJKOT - 350 005. Ph.: +91 9099919954 = E-mail : royalenvironment@live.com = admin@royalconsultancy.com

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

šr. No.	Sr. No. Particulars	Unit	Stack- 1
3	Date of Sampling	1	27/06/2024
2	Time of sampling	.∓	11:15
23	Stack Attached to	1	Cement Mill
2	Air Pollution Control Measures	1	Bag Filter
05	Stack Height	Meter	70
90	Stack Diameter	Meter	ı
07	Stack Temperature	റ്	80
80	Ambient Temperature	റ്	30
90	Average Velocity of Flue Gases	m/Sec.	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	20
<b>=</b>	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
3	Measured Concentration of PM.	mg/Nm³	24
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17			0.0



Ref. No.: 104/06/2024-25 Date: 01/07/2024

## STACK EMISSION MONITORING ANALYSIS

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

Sr. No.	Particulars	Unit	Stack-3
3	Date of Sampling		27/06/2024
02	Time of sampling	<u>∓</u>	12:00
03	Stack/vent Attached to	I	Conveyor belt L11BC1 Vent
2	Air Pollution Control Measures	ŧ	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	ı
07	Stack/Vent Temperature	ဂံ	62
80	Ambient Temperature	ဂံ	30
09	Average Velocity of Flue Gases	m/Sec.	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	22
<u> </u>	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
ដ	Measured Concentration of PM.	mg/Nm³	40
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
	Permissible limits for NO <sub>x</sub>	ppm	50
16	Measured Concentration of NO <sub>x</sub>	ppm	0.0



Ref. No.: 106/06/2024-25 Date: 01/07/2024

## STACK EMISSION MONITORING ANALYSIS

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

Sr. No.	Particulars	Unit	Stack-5
2	Date of Sampling		27/06/2024
22	Time of sampling	Hr.	14:00
03	Stack/vent Attached to	ı	Conveyor belt K11BC1 tranfer point vent
2	Air Pollution Control Measures	1	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	1
07	Stack/Vent Temperature	റ്	ස
80	Ambient Temperature	റ്	31
09	Average Velocity of Flue Gases	m/Sec.	6.9
10	Isokinetic flow rate for P.M. Sampling	LPM	20
	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm³	43
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
	Manager of No.		0.0

Royal Environment Additing & Consultancy Service



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
2	Date of Sampling		27/06/2024
ន	Time of sampling	Ξ.	15:00
ន	Stack/Vent Attached to	ı	Conveyor belt 491BC2 tranfer point
2	Air Pollution Control Measures	1	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/vent Diameter	Meter	l
07	Stack/ Vent Temperature	റ്	65
8	Ambient Temperature	റ്	30
90	Average Velocity of Flue Gases	m/Sec.	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	20
1	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
3	Measured Concentration of PM.	mg/Nm³	2
14	Permissible limits for SO <sub>2</sub>	mdd	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0
struments	Instruments Used: Ecotech Stack Kit model No ESS - 100		

Royal Engironment Auditing & Consultancy Service

Calibration done on: 14/01/2024





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	CO-02 Vent
9	Date of Sampling		27/06/2024	27/06/2024
02	Time of sampling	푥	15:45	16:30
03	Stack/Vent Attached to	ı	Cement Silo -1	Cement Silo -2
2	Air Pollution Control Measures	l	Bag Filter	Bag Filter
05	Stack/Vent Height	Meter	30	30
06	Stack√ent Diameter	Meter		I
07	Stack/Vent Temperature	റ്	60	64
08	Ambient Temperature	റ്	30	31
9	Average Velocity of Flue Gases	m/Sec.	7.6	8.2
10	Isokinetic flow rate for P.M. Sampling	LPM	22	23
<u> </u>	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm³	150	150
သ	Measured Concentration of PM.	mg/Nm³	27	32
14	Permissible limits for SO <sub>2</sub>	ppm	100	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50	50
17	Money of Concentration of NO	mag	0.0	0.0

Royal Environment Auditing & Consultancy Service



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.

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Sr. No.	Sr. No. Location of Sampling	Results in dB(A) (Day Time) 6:30am to 10:30pm	Results in dB(A) (Night Time) 10:30pm to 6:30am
Permiss	Permissible Limits	75.0	70.0
2	Security Main gate (East)	69.3	61.2
<b>6</b> 2	Packing plant (South)	70.2	64.2
03.	Cement mill (North)	71.3	65.8
2	Clinker Silo (West)	73.2	64.2
		CPCB Standards	
Area	Category of Area / Zone	Limit in d	Limit in dB(A) Leq. Night Time
>	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
O	Residential Area	55.0	45.0

Instruments used Sound level meter, Model . St. 4030 (Luiron) Range : A - 30 to 80 dB, B-50 to 100 dB,C-80 to 130 dB. Calibration is done on : 17/05/2024





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.	Sr. No. Parameters	Unit	Permissible Limit*	STP O/L
01. pH	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.	03. Fecal Coliform	MPN	<1000MPN/100ml	0.5

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





Date: 01/07/2024

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

Ref. No : 116/06/2024-25

Name of company: M/s. Adani Cement Industries Limited,
Plot No.136/P to 14/IP, 144/P, 145/P, 15/IP to 155/P,
162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 19/IP of
Village: Dahej in Dahej Industrial Estate,
Tal.: Vagra, Dist.: Bharuch.

S	S. No. Particulars	Unit			Nr. I	Hain Security	Nr. Main Security Main gate (East)	ast)		
유	No. of Week	1			2		w			4
8	Date & Time Starting of Monitoring	ī	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
8	Date & Time - Ending of Monitoring	1	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
2	Duration of Sampling	<u>×</u>	1440	1440	1440	1440	1440	1440	1440	1440
8	Dominant Wind Direction (From)	1	Æ	Æ	33	æ	Æ	æ	æ	æ
8	Wind Speed Velocity	KmÆr	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	10	10	10	1.0	10	10	10	1.0
8	Average Flow Rate For PM10	тЭ/Мп	1.13	1.12	1.18	1.14	1.12	1.11	112	121
8	Average Flow Rate for Gasious	LP M	0.2	02	0.2	0.2	02	0.2	02	0.2
<b>5</b>	Permissible Limits of PM2.5 *	hgim	60	80	60	60	60	8	69	8
=	Measured Concentration of PM2.5	руm³	30 2	32.5	34.5	29.3	29.1	32.5	34.5	39.1
73	Permissible Limits of PM10 *	µg/m³	100	100	100	100	100	100	100	100
갋	Measured Concentration of PM10	µg/m³	63,1	65.8	62.3	69 1	721	65.8	73.0	65 8
4	Permissible Limits of SO <sub>2</sub> *	Ew/Brt	80	88	80	08	80	80	88	8
ភ	Measured Concentration of SO <sub>2</sub>	µg/m³	11.2	12.6	14.5	13.6	165	17.5	115	13.5
5.5	Permissible Limits of NO <sub>2</sub> *	µg/m³	80	80	88	80	80	86	8	80
17	Measured Concentration of NO <sub>2</sub>	Lg/m³	24.6	22.6	19.6	17.5	18.6	20.0	203	24.1

Calibration Done on : 13/01/2024



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 14/IP, 144/P, 145/P, 15/IP to 156/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	S. No. Particulars	Unit				Cement n	Cement mill (North)			
2	No. of Week	1			2		- 13	4.5	w	3
R	Date & Time Starting of Monitoring	ı	06/06/2024 09:15	07/06/2024 09:25	13/06/2024 09:45	14/06/2024 09:55	. 20	20/06/2024	06/2024 21/06/2024 10-15 10:25	
ವ	Date & Time - Ending of Monitoring	1	07/06/2024 09:15	08/06/2024 09:25	14/06/2024 09:45	15/06/2024 09:55	21/4	21/06/2024 10:15	06/2024 22/06/2024 10:15 10:25	
2	Duration of Sampling	M	1440	1440	1440	1440		1440	1440	-
8	Dominant Wind Direction (From)	T-	N.	R	æ	SH		Æ	NE SE	-
8	Wind Speed Velocity	Km/Hr	2 to 13	1 to 13	2 to 12	2 to 16		3 to 16	3 to 16 1 to 16	
.97	Average Flow Rate For PM2.5	m3/Hr	10	1.0	1.0	10		10	10 10	
8	Average Flow Rate For PM10	m3/Min	1.13	112	1.18	114		1.12	1.12 1.11	
8	Average Flow Rate for Gasious	LP <b>M</b>	0.2	0.2	02	02		02	02 02	
, <del>,</del>	Permissible Limits of PM2.5 *	right.	60	60	60	8		8	60 60	
#	Measured Concentration of PM2 5	hā <sub>jū</sub> ,	37 5	41.6	47.5	51 6		402	40.2 47.5	
12	Permissible Limits of PM10 *	rm/Brf	100	100	100	100		100	100 100	
13.	Measured Concentration of PM10	hâ/la <sub>j</sub>	60.5	64 8	65.8	71.5		75.8	75.8 69.5	_
#	Permissible Limits of SO <sub>2</sub> *	pg/m <sup>3</sup>	80	80	88	8		80	80	
ᄚ	Measured Concentration of SO <sub>2</sub>	h@m <sup>3</sup>	152	11.5	106	158		14.5	14.5 13.5	
륡	Permissible Limits of NO <sub>2</sub> *	ing/m <sup>3</sup>	80	80	88	80		80	80 80	
17	Measured Concentration of NO <sub>2</sub>	Lighm <sup>3</sup>	25.3	21.5	24.5	23.6	50	2019	20.9 23.5	100

Caibration Done on: 13/01/2024

Royal Enviro meant Auditing & Consultancy Service, Rajkot





Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 0t5. Ph.: +91 9099919954 = E-mad : royalenvironment@five.com = admin@royalcorsultancy.com

REAS/ACIL/2024-25/06-01

Date: 01/08/2024

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 July2024.

Dear Sir,

Please find enclosed following analysis report in one copy:

Report of Waste Water Analysis
Report of Stack Emission Monitoring
Report of National Ambient Air Quality Monitoring

Report of **Drinking Water** Analysis
Report of **Ambient Noise** Level Monitoring

7004007 Report of Work Place Noise Level Monitoring Report of Fugitive Emission

40 Locations
01 Samples
04 Samples
03 Samples
05 Samples 01 Samples 10 Locations

Thanking you,

Yours faithfully,

Royal Environment Auditing & Consultancy Service,

Digvijay Jadeja

Encl: As above.



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

Ref. No : 203/07/2024-25

Date: 01/08/2024

#### STACK EMISSION MONITORING ANALYSIS

Name of Company: N/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
2	Date of Sampling	1	12-07-2024
22	Time of sampling	H	14:00
03	Stack Attached to	1	Packing Plant (1 No.)
2	Air Pollution Control Measures	l	Bag Filter
05	Stack Height	Meter	50
6	Stack Diameter	Meter	ľ
07	Stack Temperature	റ്	56
80	Ambient Temperature	റീ	30
8	Average Velocity of Flue Gases	m/Sec.	73
10	Isokinetic flow rate for P.M. Sampling	LPM	19
1	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm³	21
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

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







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
9	Date of Sampling	1	12/07/2024
02	Time of sampling	풁	14:55
03	Stack/Vent Attached to	1	Conveyor belt 531BC1 tranfer point Vent
2	Air Pollution Control Measures	1	Bag Filter
8	Stack/ vent Height	Meter	30
8	Stack/Vent Diameter	Meter	ı
07	Stack/Vent Temperature	റ്	58
80	Ambient Temperature	റ്	31
09	Average Velocity of Flue Gases	m/Sec.	7.8
70	Isokinetic flow rate for P.M. Sampling	LPM	20
⇉	Gaseous Sampling Flow Rate	LPM	20
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm³	38
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0
Instrument	Instruments Used : Ecotech Stack Kit model No ESS - 100		

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







Plot No. 19 & 20, Bls. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 665.

Ph.: +91 9099919964 • E-mail: royalenvironment@live.com • admin@ateskorsiotenca.com

#### 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
2	Date of Sampling	-	20/07/2024
8	Time of sampling	Hr.	12:30
03	Stack/vent Attached to	9 2 5	Conveyor belt 491BC1 tranfer point
2	Air Pollution Control Measures	ľ	Bag Filter
05	Stack/Vent Height	Meter	30
90	Stack/Vent Diameter	Meter	1
07	Stack/Vent Temperature	ဂံ	64
80	Ambient Temperature	ဂံ	31
90	Average Velocity of Flue Gases	m/Sec.	7.6
10	Isokinetic flow rate for P.M Sampling	LPM	21
<u>-1</u>	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	36
4	Permissible limits for SO <sub>2</sub>	ppm	100
35	Measured Concentration of SO <sub>2</sub>	ppm	0.0
9	Permissible limits for NO <sub>x</sub>	mdd	50
47	Measured Concentration of NO.	maa	0.0

Calibration done on: 14/01/2024







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

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
9	Date of Sampling		20/07/2024
02	Time of sampling	H.	14:45
03	Stack/Vent Attached to	i	Conveyor belt K11BC2
2	Air Pollution Control Measures	l	Bag Filter
05	Stack/Vent Height	Meter	30
8	Stack/Vent Diameter	Meter	1
07	Stack/Vent Temperature	റ്	63
08	Ambient Temperature	റ്	32
90	Average Velocity of Flue Gases	m/Sec.	8.1
10	Isokinetic flow rate for P.M. Sampling	LPM	23
=	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm³	31
4	Permissible limits for SO <sub>2</sub>	ppm	100
ភ	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

Instruments Used : Ecotech Stack Kit model No ESS - 100 Calibration done on : 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

		Results	Results in dB(A)
Sr. No.	Location of Sampling	Day Time 06:30am to 10:30pm	Night Time 10:30pm to 06:30am
Permissi	Permissible Limits for 08:00 Hrs.	90.0	90.0 dB(A)
91	Main Compressor Room	83.1	70.1
02	Cement Mill	80.2	68.1
03	Fly Ash Compressor Room	78.2	71.1
Instruments	Instruments used : Sound lavel meter Model : VSI M 032 (Vaibbox)	thou.	

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





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.	Sr. No. Particulars	Unit	No. 1	No. 2	No. 3	No. 4
9.	Location of Sampling	-1	Clinker shed	Gypsum shed	Packing plant	Truck loading/ Parking area
Ş	Date of sampling	l	20/07/2024	20/07/2024	20/07/2024	20/07/2024
03	Time of sampling	곡	09:00	10:45	11:00	12:00
04	Duration of Sampling	Min	480	480	480	480
05	Dominant Wind Direction (From)	1	WS	WS	WS	WS
8	Average Wind Speed	Km/l-b	1 to 18	4 to 20	2 to 11	2 to 20
07	Flow rate during sampling	m3/Hr	10	1.0	10	10
80	Average flow rate for Gas sampling	LPM	02	02	02	02
.89	Permissible Limits of SPM *	µg/m³	5000	5000	5000	5000
10	Measured Concentration of SPM	ha/m³	2875	3012	3	3412

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Ph.: +91 9089919954 = E-mail : royalenvirorment@five.com = admin@royalconsultancy.com

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, 154/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
91.	PH	pH Units	6.5 to 8.5	7.21
92	Colour	Hazen	σι	Colourless
03.	Turbidity	NTU	_	< 1.0
04.	Total Dissolved Solids	mg/l	500	135
05.	Total Suspended Solids	mg/l	****	18
OG.	Total Solids	mg/l	I	145
07.	Chlorides	mg/l	250	55
80	Sulphates	mg/l	200	13.2
09.	Total Hardness (As CaCO <sub>3</sub> )	mg/l	200	62.2
10.	Calcium (as Ca)	mg/I	75	24.1
1	Magnesium (as Mg)	mg/l	30	6.2
12.	Total Alkalinity	mg/l	200	35
13.	Nitrates	mg/l	45	3.8
<b>‡</b>	Flouride	mg/l	1.0	0.07





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Ph.: +91 9099919954 ➤ E-mail: royalenvironment@live.com ➤ admin@royalconsultancy.com

?dd No ∵?1/07/2024-25

Date 01/08

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

Name of company: MS Adani Coment 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.: Yagra, Dist.: Bharuch.

-	ST.	5	=	డ	4	=	=	8	12	22.	8	i.	, 52	8	8	호	N N
Measured Concentration of NO	Permessible Limits of NO <sub>2</sub> *	Weak that Concontration of SO <sub>2</sub>	Permissible Limits of SO, *	Micasumi Concentration of PM10	Permissions Limits of PM10 *	Measured Concentration of PM2 5	Permissible Limits of PM2.5*	over 150 Flow Rale for Gasious	Flow Rate For PM10	Flow Rate For PM2 5	Mint Spood Velocity	Wind Direction (From)	Next on of Sampling	Date & Time - Ending of Monitoring	Date & Time Starting of Monitoring	No. of Week	No Particulars
<u>a</u>	PQ/m	Pg(m)	Fg/as <sup>3</sup>	[m/gru]	µg/m <sup>3</sup>	pg/m²	rgm²	LPM	n JANin	11 July 1	KmHr	1	3	1	.E	1	Unit
20 1	80	122	80	66 2	100	38.1	65	02	1.13	10	3 to 17	ä	1440	02/07/2024	01/07/2024 08:45		
23 2	80	142	86	60 2	100	43 1	8	02	1.12	16	4 to 18	æ	1440	03/07/2024 08:55	02/07/2024 08:55	_	
26	80	162	8	58 2	100	482	60	02	118	1.0	2 to 13	SI	1440	09/07/2024	08/07/2024		
212	80	18.1	86	62 2	100	562	60	02	1.14	10	2 to 14	Ж	1440	10/07/2024 09:10	09,07/2024	N	
223	80	13.2	80	83.1	100	412	60	0.2	1.12	10	2 to 14	Æ	1440	16/07/2024 09:30	15/07/2024 09:30		Packing Pl
241	80	15 1	80	68 1	100	52 1	60	02	111	10	4 to 18	æ	1440	17/07/2024 09:40	16/07/2024 09:40	ω	Packing Plant (South)
252	88	132	80	72 1	100	401	60	02	1.12	10	3 to 15	SE	1440	23/07/2024 10:00	22/07/2024 10:00		
252	88	172	8	62 2	100	50 2	60	02	121	1.0	2 to 16	SE	1440	24/07/2024 10:10	23/07/2/024 10:10	4	
223	8	182	88	57.1	100	462	60	02	1 16	10	4 to 19	Æ	1440	30/07/2024 11:15	29407/2024 11:15		
242	88	132	86	53 2	100	522	60	02	112	1.0	3 to 15	æ	1440	31/07/2024	30/07/2024	5	

Caltoration Dene on: 13/01/2024







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Ref No . 10'9/07/2024-25

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

Date: 01/08/2024

Namo 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 175/P, 178/P, 179/P, 187/P to 191/P of
Village: Dahej-in Dahej-industrial Estate,
7st: 'Vagra,Dist: Bharuch.

A

80	Particulars	Unit					Clinker Silo (West)	lo (West	-			
은	No. of Week	ï				2	ம					±
8	late & Time Starting of Monitoring	5	01.07/2024	1.45 1.47	R250234	05/07/2024	06.24 PAREADS:	345 1255554	E 55	166 72.62		166 72.62
8	Date & Time - Ending of Monitoring	1	07 07:0224	33 87 7 124 17 45	TO (1) HGG2/2080	11.07.2024 12.15	35.07/2024 12:30	17/1/2024		23 to 2024		23 to 2024
8	Duration of Sampling	£	1440	1440	1440	1440	1440	2	3440	1440		1440
S	Dominant Wind Direction (From)	1,	K	Æ	SE	ĸ	<u> </u>		X	<b>8</b>		g
86	Speed Velocity	1	7 to 13	312 17	4 15 18	210 13	25.14		210 14	2614 4618		4 6 18
9/	An all I low Nate for PM2.5	A SEX	10	<u>=</u>	10	10	0.8	- 1	<u>0</u>	10		10
	Flow Rate For PM10	-12.	- 3	EU2	36		7.72		111	111		1 1/8
	* out used From Rate for Gasious	2	0.2	0.2	112	02	92		02	02 37		₩ 23
	Permissible Limits of PM2.5	po'm'	68	50	60	25	8		60	<b>\$</b> \$ \$0		<b>\$</b> 0
	*Fundament Concentration of PM2 5	page.	20	85	46.1	57.2	40.5		37.2	372 432		43.7
**	Permissible Limits of PM10 *	3	100	100	100	100	190		100	100 100		100
ಚ	Monard Concentration of PM10	Idea.	62.2	¥.2	5% -*	85	58.2		70 1	70 1 34.2		74.7
4	Pormissible Limits of SO,	<b>a</b>	86	80	<b>3</b> 0	28	80		8	88		8
7.	Measured Concentration of SO <sub>2</sub>	à	53 23	14.1	16.2	117	12.1		17.2	172 152		15.2
	Permissible Limits of NO <sub>2</sub> *	Hayan.	8	8	8	80	8		8	80		8
1/ Necesured Concentration of NO <sub>2</sub> are 23.2 26.1 18.1 26.1 2	1/ Measured Concentration of NO <sub>2</sub>	1	232	53	181	26	242	_	212		26.7	712 26.2 26.2 24.1



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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.

Sr. No.	Sr. No. Particulars	Unit	Stack- 1
2	Date of Sampling	1	31/08/2024
83	Time of sampling	픘	12:15
23	Stack Attached to	1	Cement Mill
2	Air Pollution Control Measures	1	Bag Filter
93	Stack Height	Meter	70
06	Stack Diameter	Meter	=
07	Stack Temperature	ငံ	69
8	Ambient Temperature	റ്	30
9	Average Velocity of Flue Gases	m/Sec.	7.6

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

Measured Concentration of NO<sub>x</sub> Permissible limits for NO<sub>x</sub> Measured Concentration of SO<sub>2</sub> Permissible limits for SO<sub>2</sub> Measured Concentration of PM. Permissible limits for PM Gaseous Sampling Flow Rate

ppm ppm ppm ppm

0.0

50

0.0

8

15 4 ವ 12

> mg/Nm<sup>3</sup> mg/Nm³ LPM

> > 150

22

2.0

21

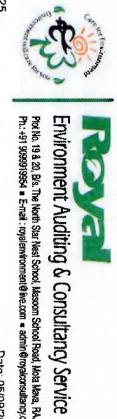
16

<del>1</del> 10

Isokinetic flow rate for P.M. Sampling

LPM.

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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

" 5	Dartinilare	11_2	Ginal 9
Si. No.	St. No. Farticulars	Unit	Stack- 3
2	Date of Sampling		31/08/2024
02	Time of sampling	H	13:20
03	Stack/vent Attached to	ı	Conveyor belt L11BC1 Vent
2	Air Pollution Control Measures	1	Bag Filter
05	Stack/vent Height	Meter	30
80	Stack/Vent Diameter	Meter	+
07	Stack/Vent Temperature	റ്	50
80	Ambient Temperature	റ്	29
90	Average Velocity of Flue Gases	m/Sec.	7.1
6	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 <sup>3</sup>	21
14	Permissible limits for SO <sub>2</sub>	ppm	100
5	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

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





Plot No. 19 & 20, Bls. The North Star Nest School, Mesoom School Road, Mota Mava, RAJKOT - 360 005.
Ph.: +91 9059919954 = E-mail : royalenvironment@five.com = admin@royalconsultancy.com

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.	Sr. No. Particulars	Unit	Stack- 5
2	Date of Sampling	1	317/08/2024
8	Time of sampling	Hr.	15:20
23	Stack/vent Attached to	4.6	Conveyor belt K11BC1 tranfer point vent
2	Air Pollution Control Measures	ł	Bag Filter
05	Stack/vent Height	Meter	30
80	Stack/Vent Diameter	Meter	1
07	Stack/Vent Temperature	c <sup>*</sup>	58
80	Ambient Temperature	റ്	31
9	Average Velocity of Flue Gases	m/Sec.	7.8
10	Isokinetic flow rate for P.M. Sampling	LPM	22
=======================================	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm <sup>3</sup>	19
4	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	mdd	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

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

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Ph.: +91 9099919954 = E-mail : royalenvironment@live.com = admin@royalconsultancy.com

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.	Sr. No. Particulars	= = =	Stack_7
01.146		Onic	Stack- /
01	Date of Sampling	ļ	31/08/2024
02	Time of sampling	<b>.</b>	16:30
ឩ	Stack/Vent Attached to	ì	Conveyor belt 491BC2 tranfer point
2	Air Pollution Control Measures	ì	Bag Filter
05	Stack/vent Height	Meter	30
8	Stack/vent Diameter	Meter	i
07	Stack/ Vent Temperature	ဂံ	57
08	Ambient Temperature	റ്	31
09	Average Velocity of Flue Gases	m/Sec.	7.3
10	Isokinetic flow rate for P.M. Sampling	LPM	17
<u></u>	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm³	19
4	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

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

Royal Environment Auditing & Consultancy Service





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, 179/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
9	Date of Sampling	1	13/08/2024	13/08/2024
8	Time of sampling	Ŧ	14:00	15:00
03	Stack/Vent Attached to	1	Cement Silo -1	Cement Silo -2
2	Air Pollution Control Measures	1	Bag Filter	Bag Filter
05	Stack/Vent Height	Meter	30	30
06	Stack/Vent Diameter	Meter	area.	!
07	Stack/Vent Temperature	റ്	60	56
80	Ambient Temperature	ငံ	30	31
09	Average Velocity of Flue Gases	m/Sec.	6.9	72
10	Isokinetic flow rate for P.M. Sampling	LPM	18	20
<u>-</u> 2	Gaseous Sampling Flow Rate	LPM	20	2.0
12	Permissible limits for PM	mg/Nm³	150	150
13	Measured Concentration of PM.	mg/Nm³	24	21
14	Permissible limits for SO <sub>2</sub>	ppm	100	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50	50
17	Measured Concentration of NO <sub>x</sub>	ррт	0.0	0.0
Instruments	Instruments Used : Ecotech Stack Kit model No ESS - 100			

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

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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,

Village: Dahej in Dahej Industrial Estate, 162/P, 174/P to 176/P, 178/P, 179/P, 187/P to 191/P of

Tal.: Vagra, Dist.: Bharuch.

Sample Collection Date: 31/08/2024

Sr. No.	Location of Sampling	Results in dB(A) (Day Time) 6:30am to 10:30pm	Results in dB(A) (Night Time) 10:30pm to 6:30am
Permissi	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
94	Clinker Silo (West)	71.1	62.2
		CPCB Standards	
Area Code	Category of Area / Zone	Limit in d	Limit in dB(A) Leq.  Night Time
A	Industrial Area	75.0	70.0
<b>CO</b>	Commercial Area	65 0	55.0
0	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

Royal Environment Auditing & Consultancy Service



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.	Sr. No. Parameters	Unit	Permissible Limit*	STP O/L
01. pH	рH	mg/l	6.5-9	7.1
01.	Total Suspended Solids	mg/l	<100	42
22.	B.O.D. (3 day's at 27 °C)	mg/l	<30	22.2
03.	03. Fecal Coliform	MPN	<1000MPN/100ml	0.7

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

Royal Environment Auditing & Consultancy Service







Environment Auditing & Consultancy Service

Plot No. 19 & 20, Bls. The North Star Nest School, Mascoom School Road, Mota Mava, RAJKOT - 380 005.

Ph.: +91 9099919954 = E-mail: royalenvironment@live.com = admin@royalcorsultarcy.com

Sample Description: GIDC Water Ref. No.:205/08/2024-25

No Relaxation	No Relaxation
Absent No Relaxation	
No Relaxation	No Relaxation
2.4	2.4
No Relaxation	No Relaxation
No Relaxation	No Relaxation
0.2	0.2
600	600
Absent	Absent
No Relaxation	No Relaxation
No Relaxation	No Relaxation
35	5
No Relaxation	No Relaxation
No Relaxation	No Relaxation
No Relaxation	No Relaxation
Acceptable Permissible Limit (*)	

Page 2 of 2

Royal Environment Auditing & Consultancy Service

(1) Acceptable Linux (4) per 's



#### Environment Auditing & Consultancy Service

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

Ref No 317/08/2024-25

Date: 05/09/2024

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

Name of company: Mts. 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, 167/P to 191/P of
Village: Dahej in Dahej Industrial Estate,
Tal.: Vegra,Dist.: Bharuch.

17	<b>5</b>	55	#	=	12,	==	\$	8	8	07,	8	8	2	8	8	3	S. No.
Measured Concentration of NO <sub>2</sub>	Permissible Limits of NO2*	Measured Concentration of SO <sub>2</sub>	Permissible Limits of SO <sub>2</sub> *	Measured Concentration of PM10	Permissible Limits of PM10 *	Measured Concentration of PM2 5	Permissible Limits of PM2.5*	Average Flow Rate for Gasious	Average Flow Rate For PM10	Average Flow Rate For PM2.5	Wind Speed Velocity	Dominant Wind Direction (From)	Duration of Sampling	Date & Time - Ending of Monitoring	Date & Time Starting of Monitoring	No. of Week	Particulars
hāyu.	pg/m³	hēų.	pg/m³	hg/m <sup>3</sup>	pg/m³	hā/m²	pg/m³	TAN.	m3Min	maker	Km/Hr	1	¥	1	i,	Ł	Ç,
24 2	80	131	8	621	100	32 2	60	02	1 13	1.0	3 to 17	æ	1440	06/08/2024 08:45	05/08/2024 08:45		
26 1	80	151	86	57.1	100	46 2	60	02	1 12	10	4 to 18	Æ	1440	07/08/2024 08:55	06/08/2024 08.55	_	
202	80	17.1	88	53 2	100	411	80	0.2	1.18	1.0	2 to 13	æ	1440	13/08/2024 09:00	12/08/202 <b>4</b> 09:00		
232	80	122	80	63.2	100	522	60	02	1.14	1.0	2 to 14	SE	1440	14/08/2024 09:10	13/08/2024 09:10	2	Packing
221	80	14.2	80	68 1	100	38 2	60	0.2	1 12	1.0	2 to 14	Ä	1440	21/08/2024 09:30	20/08/2024 09:30		Packing Plant (South)
192	80	11.2	80	70 1	100	47.1	60	0.2	1.11	10	4 to 18	æ	1440	22/08/2024 09:40	21/08/2024 09:40	w	
24 1	88	<b>क</b>	8	52.2	18	42.2	60	02	112	10	3 to 15	SE	1440	27/08/2024 10:00	26/08/2024 10:00		
19 1	80	142	80	59 2	100	53.2	60	02	1.21	10	2 to 16	æ	1440	28/08/2024 10:10	27/08/2024 10:10	•	

» <N

Analyst

Royal Environment Auditing & Consultancy Service, Rajkot



**Environment Auditing & Consultancy Service** 

Date: 05/09/2024

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

Ref No 319/08/2024-25

Name of company: Mis. 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.

17	5	5	#	ವ	12	=	è	8	68	97	96	95	20	2	02	2	No.
Measured Concentration of NO <sub>2</sub>	Permissible Limits of NO.	Measured Concentration of SO <sub>2</sub>	Permissible Limits of SO2'	Measured Concentration of PM10	Permissible Limits of PM10 *	Measured Concentration of PM2 5	Permissible Limits of PM25	Average Flow Rate for Gasious	Average Flow Rate For PM10	Average Flow Rate For PM2 5	Wind Speed Velocity	Dominant Wind Direction (From)	Duration of Sampling	Date & Time - Ending of Monitoring	Date & Time Starting of Monitoring	No. of Week	Particulars
hđ/m²	hōm³	rg/m <sup>2</sup>	ngm³.	Lg/m <sup>3</sup>	hð <sub>lm</sub> ,	hõta	<b>Pg</b> m³	rg.	m3/Min	тэлч	KmHr	1.	Mia	Ü	i	1	Unit
26.1	80	122	86	58 1	100	382	60	0.2	1.13	10	2 to 13	Æ	1440	06/08/2024 09 30	05/08/2024 09:30		
221	80	15.2	80	522	100	32 2	60	0.2	1 12	10	3 to 17	æ	1440	07/08/2024 09:45	06/08/2024 09:45	_	
232	88	17.1	80	62 1	100	402	60	02	1.18	10	4 to 18	SE	1440	13/08/2024 09:45	12/08/2024 09:45	2	
24.2	86	13.2	80	54 1	100	39 2	60	0.2	1.14	1.0	2 to 13	æ	1440	14/08/2024 10:00	13/08/2024 10:00		Clinker S
251	88	162	88	60 2	100	322	60	02	1.12	10	2 to 14	ĸ	1440	21/08/2024 10:15	20/08/2024 10 15	س د	Clinker Silo (West)
191	88	11.2	98	63.2	100	35.1	Z	0.2	1.11	10	2 to 14	æ	1440	22/08/2024 10:30	21/08/2024 10:30		
212	*	142	8	67.1	i	41.2	8	02	112	5	4 to 18	ĸ	1440	27/ <b>16/2</b> 024 10:45	26/08/2024 18:45		
233	22	#1	8	59.1	ē	322	g	02	121	10	3 to 15	æ	1440	28/08/2024 11:00	27/08/2024 11:00	•	

ling & Consultancy Service, Rajkot

Analyst Q



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

		The state of the s		
Sr. No.	Particulars	Unit	Stack- 1	
01	Date of Sampling	•	28/09/2024	
02	Time of sampling	푞	14:15	
03	Stack Attached to	1	Cement Mill	
2	Air Pollution Control Measures	1	Bag Filter	
05	Stack Height	Meter	70	
06	Stack Diameter	Meter	1	
07	Stack Temperature	റ്	67	
80	Ambient Temperature	റ്	29	
09	Average Velocity of Flue Gases	m/Sec.	76 0	
10	Isokinetic flow rate for P.M. Sampling	LPM	22	
<b>i</b>	Gaseous Sampling Flow Rate	LPM	2.0	
12	Permissible limits for PM	mg/Nm³	150	
13	Measured Concentration of PM.	mg/Nm³	24	
4	Permissible limits for SO <sub>2</sub>	ppm	100	
<b>5</b> 5	Measured Concentration of SO <sub>2</sub>	ppm	0.0	
<b>16</b>	Permissible limits for NO <sub>x</sub>	mdd	50	
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0	
Instruments	Instruments Used : Ecotech Stack Kit model No ESS - 100	Will July		

Royal Environment Auditing & Consultancy Service

Calibration done on: 14/01/2024





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
2	Date of Sampling	1	28/09/2024
22	Time of sampling	Н.	14:50
03	Stack/vent Attached to	1	Conveyor belt L11BC1 Vent
2	Air Pollution Control Measures	:	Bag Filter
05	Stack/vent Height	Meter	30
06	Stack/Vent Diameter	Meter	1
07	Stack/Vent Temperature	റ്	52
88	Ambient Temperature	റ്	29
09	Average Velocity of Flue Gases	m/Sec.	6.9
10	Isokinetic flow rate for P.M. Sampling	LPM	17
<b>=</b>	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm <sup>3</sup>	150
3	Measured Concentration of PM.	mg/Nm³	19
4	Permissible limits for SO <sub>2</sub>	mqq	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>v</sub>	ppm	0.0

Royal Environment Additing & Consultancy Service



Date: 04/10/2024

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

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.	Sr. No. Particulars	Unit	Stack- 5
2	Date of Sampling		28'/09/2024
83	Time of sampling	픗	16:15
ឩ	Stack/vent Attached to	• • • •	Conveyor belt K11BC1 tranfer point vent
2	Air Pollution Control Measures	1	Bag Filter
05	Stack/vent Height	Meter	30
8	Stack/Vent Diameter	Meter	
07	Stack/Vent Temperature	ဂံ	59
8	Ambient Temperature	ဂံ	30
9	Average Velocity of Flue Gases	m/Sec	7.9
10	Isokinetic flow rate for P.M. Sampling	LPM	23
1	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM.	mg/Nm³	17
14	Permissible limits for SO <sub>2</sub>	ppm	100
ᅜ	Measured Concentration of SO <sub>2</sub>	ppm	0.0
6	Permissible limits for NO <sub>x</sub>	ppm	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0

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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.	Sr. No. Particulars	Unit	Stack- 7
9	Date of Sampling	1	13/09/2024
02	Time of sampling	품.	14:00
23	Stack/Vent Attached to	ï	Conveyor belt 491BC2 tranfer point
04	Air Pollution Control Measures	***	Bag Filter
9	Stack/vent Height	Meter	30
90	Stack/vent Diameter	Meter	:
07	Stack/ Vent Temperature	റ്	55
8	Ambient Temperature	റ്	30
99	Average Velocity of Flue Gases	m/Sec.	7.8
10	Isokinetic flow rate for P.M. Sampling	LPM	19
1	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
ដ	Measured Concentration of PM.	mg/Nm³	23
14	Permissible limits for SO <sub>2</sub>	ppm	100
15	Measured Concentration of SO <sub>2</sub>	ppm	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50
ì	Measured Concentration of NO.	ppm	

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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.	Sr. No. Particulars	Unit	CS-01 Vent	CS-02 Vent
2	Date of Sampling		13/09/2024	13/09/2024
22	Time of sampling	Hr	15:00	15:45
03	Stack/Vent Attached to	l	Cement Silo -1	Cement Silo -2
2	Air Pollution Control Measures	1	Bag Filter	Bag Filter
05	Stack/Vent Height	Meter	30	30
8	Stack/Vent Diameter	Meter	1	ŧ
07	Stack/Vent Temperature	റ്	60	62
08	Ambient Temperature	ဂံ	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
7	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm³	150	150
3	Measured Concentration of PM.	mg/Nm³	26	23
14	Permissible limits for SO <sub>2</sub>	ppm	100	100
15	Measured Concentration of SO <sub>2</sub>	ppm	00	0.0
16	Permissible limits for NO <sub>x</sub>	ppm	50	50
17	Measured Concentration of NO <sub>x</sub>	ppm	0.0	0.0

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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) (Day Time) 6:30am to 10:30pm	Results in dB(A) (Night Time) 10:30pm to 6:30am
Permiss	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	Category of Area / Zone	Limit in dB(A) Leq.	3(A) Leq.
Code		Day Time .	Night Time
➤	Industrial Area	75.0	70 0
B	Commercial Area	65 0	55.0
	Residential Area	55 0	450
C			

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. : 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.	Sr. No. Parameters	Unit	Permissible Limit*	STP O/L
01. pH	PΗ	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.	03. Fecal Coliform	MPN	<1000MPN/100ml	120

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

Royal Environment Auditing & Consultancy Service





Environment Auditing & Consultancy Service

Ref. No : 415/09/2024-25

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	Ung.			Nr. W	Nr. Main Security Main gate (East)	/ Main g	ate (	ate (East)	ate (East)
2	No. of Week	i		_		~			w	
02	Date & Time Starting of Monitoring	0-	02/09/2024 09:45	02/09/2024 03/09/2024 09:45 10:00	09/09/2024 10/09/2024 09:00 09:15	_ ø	)/09/2024 09·15		16/09/2024 17/09/2024 09.30 09.45	
೭	Date & Time - Ending of Monitoring	10	03/09/2024	04/09/2024 10:00	10/09/2024 09:00	11/0	11/09/2024 09:15	9/2024 17/09/2024 9:15 09:30	17/09/2024 18/09/2024 09:30 09:45	17/09/2024 09:30
2	Duration of Sampling	M 5	1440	1440	1440		1440	440 1440		1440
8	Dominant Wind Direction (From)	1	NE	Z.	SE		SE	SE NE		NE NE
8	Wind Speed Velocity	KæAtr	2 to 16	3 to 18	4 to 15	eu	3 to 17	16 17 2 10 18		2 to 18 4
07	Average Flow Rate For PM2 5	пэнг	1.0	10	10		1.0	1.0 1.0		10
8	Average Flow Rate For PM10	m3/Min	1 13	1.12	1.18		1.14	1.14 1.12		1.12
99	Average Flow Rate for Gasious	LPM	02	02	02		0.2	02 02		02
8	Permissible Limits of PM2.5*	hg/m³	60	60	66		8	60 60		60
Ξ	Measured Concentration of PM2.5	h8 <sub>l</sub> tra'	36 2	34.1	291	- 1	28 2	28 2 31 1		31 1
ಧ	Permissible Limits of PM10*	þým²	100	100	100		100	100		100
ಪ	Measured Concentration of PM10	þg/m³	80 1	53 2	59 1		65 2	52 681		68 1
#	Permissible Limits of SO <sub>3</sub> *	hā,	80	80	80		80	80 80		80
55	Measured Concentration of SO <sub>2</sub>	ng/m²	13 1	142	16 1	_	112	12 151		151
<i>\$</i>	Permissible Limits of NO <sub>2</sub> *	ingita i	80	80	80	•	80	80		80
17	Measured Concentration of NO <sub>2</sub>	μg/m³	20.2	26 1	24.2	23	23.1	21 1		211

Royal Environment Auditing & Consultancy Service, Rajkot

Analy81



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

Ref No. 418/09/2024-25

Date: 04/10/2024

# RESULTS OF AMBIENT AIR QUALITY MONITORING FOR THE MONTH: SEPTMBER 2024

Name of company: M/s. Adant 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.

	क़	55	Z	ដ	ri R	⇉	<b>1</b>	8	8	07.	8	S	2	8	8	9.	S S
Measured Concentration of NO,	Permissible Limits of NO <sub>2</sub> *	Measured Concentration of SO;	Permissible Limits of SO2.	Measured Concentration of PM10	Permissible Limits of PM10 *	Measured Concentration of PM2 5	Permissible Limits of PM2.5	Average Flow Rate for Gasious	Average Flow Rate For PM10	Average Flow Rate For PM2 5	Wind Speed Velocity	Dominant Wind Direction (From)	Duration of Sampling	Date & Time - Ending of Monitoring	Date & Time Starting of Monitoring	No. of Week	S. No. Parliculars
Egal)	pg/m <sup>3</sup>	µg/m³	µg/m³	µg/m³	Lg/m <sup>3</sup>	hêw <sub>3</sub>	pg/m³	LP M	паміо	m33+r	Km/Hr	1	M.	E	1	1	Sin a
19.1	86	11.2	86	68 2	100	402	60	02	1 13	10	2 to 16	Æ	1440	03/09/2024	02/09/2024 10:15		
222	86	13.2	80	722	100	43 1	60	02	1.12	1.0	3 to 18	Æ	1440	04/09/2024 10:30	03/09/2024	-	
25.1	80	14.1	80	711	100	49 1	60	02	1.18	10	4 to 15	æ	1440	10/09/2024 09:30	09/09/2024 10/09/2024 09:30 09:45		
262	88	152	80	75 2	100	52.1	80	02	1 14	10	3 to 17	SE	1440	11,/09/2024 09:45		2	Cement n
202	80	162	80	62.2	100	36 2	89	02	1.12	1.0	2 to 18	Ä	1440	17/09/2024 10:00	16/09/2024 17/09/2024 10:00 10:15		Cement mill (North)
<u>ස</u>	80	17 1	80	68 2	100	39.1	60	0.2	111	10	4 to 18	SE	1440	18/09/2024 10:15	17/09/2024 10:15	ယ	
21.3	88	18 2	80	72.2	100	422	60	02	1 12	1.0	51015	SE	1440	24/09/2024 10:45	23/09/2024 10: <b>4</b> 5		
24.1	80	12.2	80	69.1	100	41.1	60	02	121	10	5 to 18	SE	1440	25/09/2024 11:00	24/09/2024 11:00	4	

Royal Environment Auching & Consultancy Service, Rajkot

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

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

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

Name (in Block letters)	Signature person taking	Plant egnerioni	Number of workers exposed at the location	eonerieR bodteM	Schedule)	noiter	imstnoO	entodriA	Sampling Sampling Instrument	naumant	Location benotinom moitered	Sr. No
	səldmes		being monitored		Mg/m³	Avetage	Кзиде	Number of Sample				
		Deodatt	01	Gravimetric	10	8.£	-	ı			и Раскег	L
	15	Sunilkumar bhagat	30	Gravimetric	01	4 2	-	ı	Personal		Mr Cement Mill	5
Mr. HARSHIL JƏTAG	A STATE OF THE PARTY OF THE PAR	Sunilkumar bhagat	10	Gravimetric	Ol	9 8	-	ı	Respirable Dust sampler	tauG lstoT	Mr Gypsum Yard	3
77101	R	Sunilkumar bhagat	7	Gravimetric	01	ſ	-	ı	VPDS 203		иг. вки	1 7
		Sunilkumar bhagat	01	Gravimetric	01	T.4	7	ı			Mr. Hopper Building	G

Royal Environment Auditing & Consultancy Service

ngi2 besnorituA

Calibration Done On.: 16/01/2024

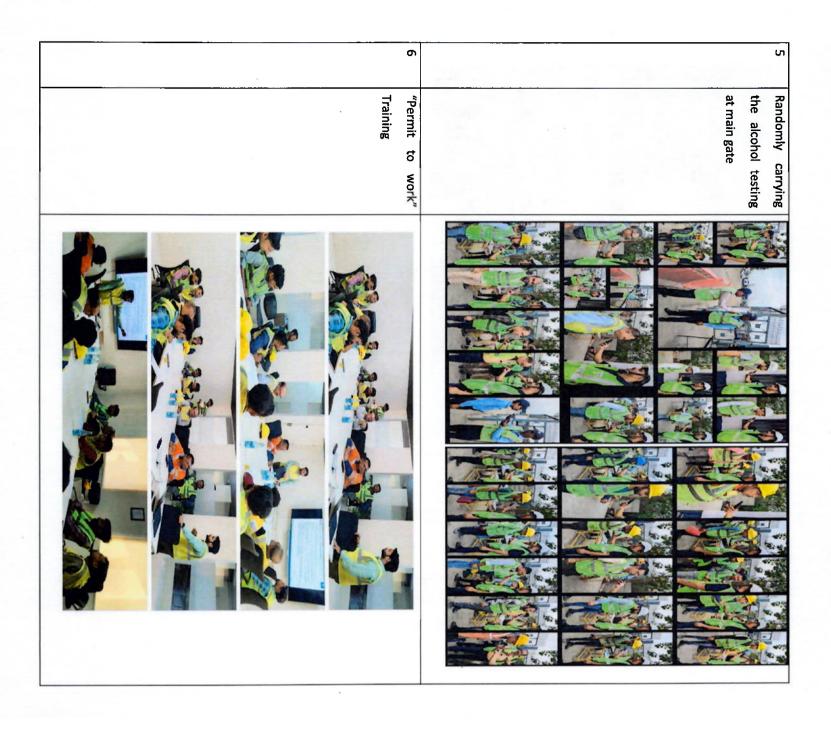
<sup>1</sup> Name of the Department/Plant : PACKING & CEMENT MILL SECTION OF Adam Cement Industries Limited, 2 Raw materials, by products and finished products involved in the process. TOTAL DUST

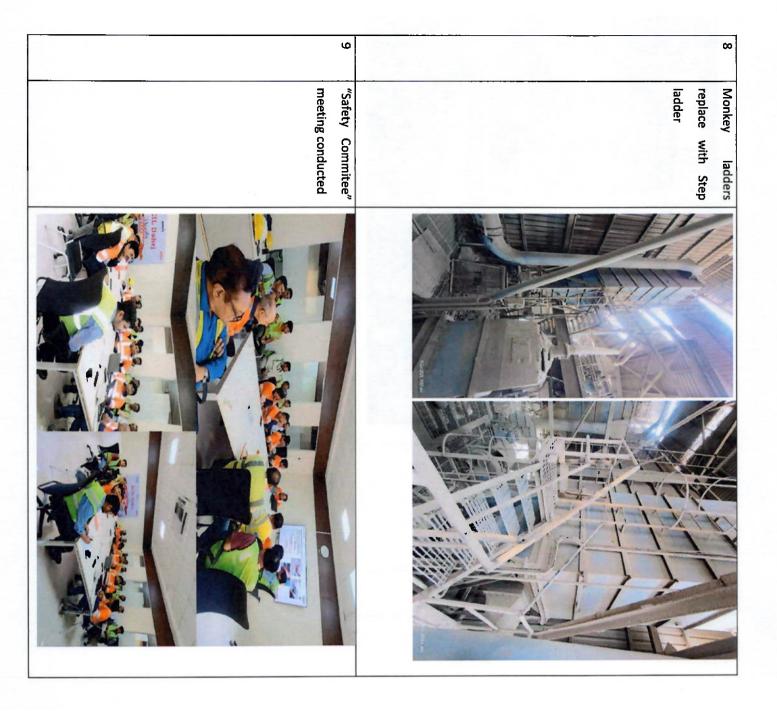
<sup>3</sup> Particulars of sampling

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

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









#### ADANI CEMENT INDUSTRIES LIMITED

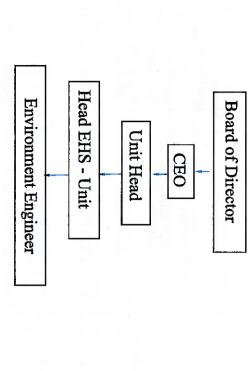
Attachment - 8

#### FORMATION OF ENVIRONMENTAL MANAGEMENT CELL (EMC)

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. To maintain the environmental quality within the standards, regular inspections, audits & monitoring of various environmental components is required. Adani Cement Industries Limited

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.
- VV Ensuring greenbelt development/plantation & its maintenance
- VV Compliance with guidelines and statutory requirements.
- Project/Environment & Engineering department etc. Coordination with statutory bodies, functional groups 으 the unit, Corporate
- VV
- Regular environmental review and performance appraisal. Coordination with the vendors dealing in waste supplies and disposal.

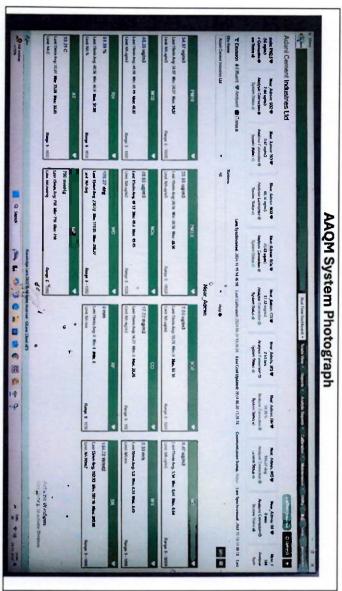
#### ATTACHMENT 8-A

# 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:

No. Sr.	CREP Condition  Cement plant which are not complying with potified standards
Ъ	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.
2	Cement plants located in critically polluted or urban areas including 5 Km distance outside urban boundary) will meet 100 mg/Nm3 limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter 50 mg/Nm3.
ω	The new cement kiln to be accorded NOC/Environmental Clearance will meet the limit of 50 mg/Nm3 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.
ى ت	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).
თ	Industries will submit the target date to enhance the utilization waste material.
7	NCBM will carry out a study on hazardous waste utilization in cement kiln.
œ	Cement industries will carry out feasible study and submit target dates to CPCB cogeneration of power by July-2003.









Attachment 11 Cement

#### CORPORATE ENVIRONMENT POLICY

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

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

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

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

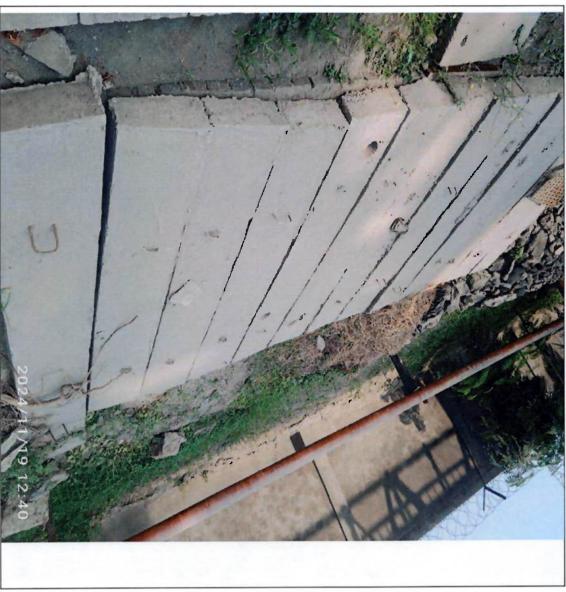






Attachment 12





Attachment -13



