

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

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

Ref: Environmental Clearance letter No. SEIAA/GUJ/EC/3(b)/633/2019 dated 03.05.2019

Dear Sir,

With reference to above subject, please find enclosed herewith six monthly Environment Clearance (EC) compliance status of Stand-Alone Cement Grinding Unit of Adani Cementation Limited in Dahej Industrial Estate Taluka Vagra, District Bharuch (Gujarat) for the period of October 2021 to March 2022.

Construction work for the production of 1 MMPTA cement is started is in October' 2021 and scheduled to be completed by March' 2023.

Financial closure of the project is awaited.

Thanking You
Yours faithfully
For, Adani Cementation Limited



(Sanjay Prasad)
Head Environment

Encl.: 1. Compliance status of Environment Clearance
2. Copy of Environment Clearance

CC to:

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

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

The Regional Office
Deputy Director General of Forests (C),
Ministry of Env., Forest and Climate Change, Regional
Office (WZ), E-5, Kendriya Paryavaran Bhavan, E-5
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**SIX MONTHLY COMPLIANCE REPORT OF
ENVIRONMENTAL CLEARANCE
STAND-ALONE CEMENT GRINDING PLANT**

At

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

Submitted to:

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

Submitted By:

adani

**Adani Cementation Limited
Ahmedabad, Gujarat
PERIOD: October' 2021 – March' 2022**

ADANI CEMENTATION LIMITED

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ADANI CEMENTATION LIMITED

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 AT DAHEJ INDUSTRIAL ESTATE, TALUKA VAGRA, DISTRICT BHARUCH (GUJARAT) BY STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY (SEIAA) – GUJARAT

A	Specific Condition	Compliance
1	Project proponent shall procure raw materials like clinker for the proposed project from the authorized units having Environmental Clearance as per the EIA Notification 2006, CTE & CC&A	<ul style="list-style-type: none"> • Noted and Compliance Assured • Clinker for grinding unit will be procured from 'Lakhpat Cement Works (LCW) of ACL or from any other authorized units having environment clearance. • Construction work for the production of 1 MMPTA cement is started in October' 2021 and scheduled to be completed by March' 2023.
2	Complete Zero Liquid Discharge (ZLD) status shall be maintained all the time and there shall be no drainage connection from the premises	Noted and compliance assured
3	The project proponent shall allocate the separate fund of Rs. 6.65 Crores i.e. 1.2 % of the capital investment for activities mentioned in EIA report under Corporate Environment Responsibility (CER) In accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent	<ul style="list-style-type: none"> • Noted and Compliance Assured • Budget allocated for Corporate Environmental Responsibility (CER) in EIA report to be used in line with suggested activities. • Detailed year wise action plan for implementation of CER is enclosed as Attachment-1 • Monitoring report regarding compliance of CER will be submitted along with six monthly EC compliance report after financial closure.
4	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA .III dated 09/08/2018 for Stand-alone Cement grinding units without Captive Power Plant as mentioned at Sr. no. xii	<ul style="list-style-type: none"> • Noted and compliance assured along with execution of construction activities. • Compliance to the conditions of applicable standard OM prescribed by MOEFCC is enclosed as Attachment-2

5	The Project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and connected to SPCB and CPCB Online and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<ul style="list-style-type: none"> • Noted and compliance assured. • CEMS will be installed during commissioning phase and connected to server of GPCB and CPCB for real time emission data of operational plant.
6	The Project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.	Noted and compliance assured
7	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with	<p>Noted and compliance assured</p> <p>Construction work for the production of 1 MMPTA cement is started in October' 2021 and scheduled to be completed by March' 2023.</p> <p>Quarterly Ambient Air Quality monitoring report for January to March 2022 is enclosed (Attachment - 6)</p>
8	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986	Noted and compliance assured
9	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report	<ul style="list-style-type: none"> • Noted and compliance assured along with execution of construction activities. • Action Plan with responsibility matrix for implementation of EMP as per final EIA report has been prepared and will be approved from competent authority before execution of construction activities.
10	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986	Noted and compliance assured
11	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards	<p>Noted and compliance assured</p> <p>Commissioning of APC system will be done along with execution of</p>

		construction activities.
12	PP shall ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash	Noted and compliance assured
13	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	Noted and compliance assured.
14	All the issues raised in the public hearing shall be comprehensively addressed/complied with in a time bound manner	Noted and compliance assured. Time bound action plan of the issues raised during Public Hearing is enclosed as Attachment-3
15	The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority	Noted and compliance assured.
16	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E;) dated 16th November, 2009 shall be complied with	Noted and compliance assured. Construction work for the production of 1 MMPTA cement is started in October' 2021 and scheduled to be completed by March' 2023. Quarterly Ambient Air Quality monitoring report for January to March 2022 is enclosed (Attachment - 6)
A2	Water	
17	Total water requirement for the project shall not exceed 480 KI/day: Unit shall reuse 180 KI/Day of treated sewage and trade effluent for dust suppression and gardening & plantation within premise and hence, fresh water requirement shall not exceed 300 KL/Day and it shall be met through ground water. Necessary permission from concern authority in this regards shall be obtained.	Noted and compliance assured.
18	The industrial effluent generation from the project shall not exceed 171 KL/day	Noted and compliance assured.
19	Total industrial effluent 171 KL/Day of cooling reject shall be used for dust suppression and no effluent shall be discharged outside premises by any means	Noted and compliance assured.
20	Domestic wastewater generation shall be 9 KL/Day and it shall be treated through adequate capacity STP and treated sewage shall be reused for gardening/plantation within premises	Noted and compliance assured.
21	During monsoon season when treated sewage effluent may not be required for the plantation/Gardening/Green Belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.	Noted and compliance assured.

22	Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days				Noted and proposed		
23	The company shall harvest rainwater from the rooftop of the building to recharge the ground water and to use the same water for the various activities-of the project to conserve fresh water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter				Noted. Proposed RWHS will be constructed during execution phase.		
A3	Air						
24	Unit shall not exceed fuel consumption for stand by DG set as mentioned below:				Noted and compliance assured.		
Sr. No.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Qty. of Fuel MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measure (APCM)	
1	DG Set (500 KVA)	18	Diesel	25 Ltr/hour	PM, SO ₂ , NO _X	Adequate stack height	
25	Unit shall provide adequate APCM with flue gas generation sources as mentioned above.				Noted and compliance assured.		
26	Unit shall provide adequate APCM with process gas generation sources as mentioned below.				Noted and compliance assured.		
S.N.	Source of emission			Type of emission	Stack Vent Height (meter)	Air Pollution Control Measures (APCM)	
i.	Gypsum crusher (Total 1 nos)			PM	18	Bag filter	
ii.	Cement mill (Total 2 nos)			PM	70	Bag filter	
iii.	Packing plant (Total 3 nos)			PM	50	Baa filter	
iv.	All conveyor belts and transfer points			PM	30	Baa filter	
v.	All raw materials and finished product silos			PM	30	Bag filter	
27	The above-mentioned measures are indicative and the unit may explore the possibilities of other latest devices also to achieve the better results & better compliance of the air pollution control norms prescribed by the Gujarat Pollution Control Board (GPCB)				<ul style="list-style-type: none"> Noted and compliance assured. ACL will explore the possibility of better result while implementing APCM 		
28	The Reverse Pulse Jet Type Bag Filters shall be provided with proper metallic casing, adequate stack height and stack monitoring requirement facility.				Noted and compliance assured.		
29	The design the air pollution control equipment's (APCE) shall be validated by the reputed institutes and APCEs shall be fabricated, erected and commissioned under guidance and supervision of the said institute				Noted and compliance assured.		
30	The APCM shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlet				Noted and compliance assured.		
31	Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards				Noted and compliance assured.		
32	Stack/Vents of adequate height shall be provided as per the prevailing norms for flue gas emission/Process				Noted and compliance assured.		

	gas emission	assured.
33	Interlocking facility of the pollution control equipment and the equipment(s) to which it is attached should be provided in such a manner that in the event of pollution control equipment(s) not working, the respective unit(s) is shut down automatically.	Noted and compliance assured.
34	Regular periodic preventive maintenance of the air pollution control systems shall be carried out during the operation phase.	Noted and compliance assured.
35	The applicant shall carry out yearly performance evaluation of the air pollution control equipment's through any reputed institute and furnish the reports in this regard to the Gujarat Pollution Control Board every year	Noted and compliance assured that the ACL will engage reputed institute for yearly performance evaluation of Air Pollution Control Equipment
36	The fugitive emission in the work zone environment and ambient air quality shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities including Director of Industrial Health and Safety as well as Gujarat Pollution Control Board from time to time. Following indicative guidelines shall be followed to reduce the fugitive emission.	Noted and compliance assured.
a)	Enclosure shall be provided at all loading and unloading operations.	Noted and compliance assured.
b)	Water shall be sprayed on all raw materials stock pile periodically to retain some moisture in top layer except wet gypsum to reduce the fugitive emission.	Noted and compliance assured.
c)	All transfer points shall be fully enclosed	Noted and compliance assured.
d)	Accumulated dust on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping	Noted and compliance assured.
e)	Internal roads shall be either asphalted or paved properly to reduce the fugitive emission during vehicular movement	Noted and compliance assured.
f)	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various material handling areas (i.e. Raw material loading, unloading, conveying, transporting, stacking, bagging and packing etc.) Guidelines/Code of Practice issued by the CPCB for prevention and control of the fugitive emission shall be followed.	Noted and compliance assured to install dust collection and extraction system at each dust emitting sources during both construction and operation stage.
37	Regular monitoring of ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ & NO _x shall be carried out in the impact zone and its records shall be maintained. Ambient Air Quality levels shall not be exceeding the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken	Noted and compliance assured make provision for regular monitoring of AAQ in impact zone and results will be reported to GPCB periodically.

	immediately. The location of the stations and frequently of monitoring shall be decided in consultation with the GPCB.			Construction work for the production of 1 MMPTA cement is started in October' 2021 and scheduled to be completed by March' 2023. Quarterly Ambient Air Quality monitoring report for January to March 2022 is enclosed (Attachment - 6)	
A4	SOLID/HAZARDOUS WASTE				
38	All the hazardous waste management shall be taken care as mentioned below;			Noted and compliance assured	
S. N.	Type of Waste	Source	Category as per Haz. Waste Rules, 2016	Quantity MT/Annum	Management of HW
A.	Hazardous				
i.	Used Oil	Utilities & Operation	5.1	0.1 MT/Annum	Grease: Reused internally for lubrication of scraper chains Oil Disease through approved recycler
ii.	Cotton Rags	Maintenance Work Shop	33.2	600 kg/Annum	Dispose through CHWIF
iii.	Discarded containers	Paints & Oil Drums	33.1	2000 Nos./Annum	Dispose through approved Recycler
B.	Non Hazardous				
i.	Dust from APCM	Manufacturing Process	Solid Waste	0.15 Million MT/Annum	100% Recycled in process
ii.	Sludge generation from STP	STP	Solid Waste	0.365 Million MT/Annum	Manure for green belt development
iii.	Gypsum	Receipt Storage & Consumption	Solid Waste	0.1MMTA	Collection, transportation, storage, receipt and consumption for Manufacturing
iv.	Fly ash	Receipt Storage & Consumption	Solid Waste	0.6MMTA	Collection, transportation, storage, receipt and consumption for Manufacturing
A5	SAFETY				
39	Proper ventilation shall be provided in the work area			Noted and compliance assured	
40	Personal Protective Equipment's shall be provided to workers and its usage shall be ensured and supervised			Noted and compliance assured	
41	First Aid Box shall be made readily available in adequate quantity in the unit			Noted and compliance assured	

42	Regular periodic work zone ambient air monitoring shall be carried out for measuring concentrations of cement dust, silica dust etc. through qualified industrial hygienist and its records shall be maintained.	Noted and compliance assured
43	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per Factories Act & Rules	Noted and compliance assured
44	All necessary safety measures shall be taken to avoid any kind of accident.	Noted and compliance assured
45	Training shall be imparted to all the workers on safety and health aspects.	Noted and compliance assured
A6	NOISE	
46	The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules	Noted and compliance assured
A7	CLEANER PRODUCTION AND WASTE MINIMISATION	
47	The unit shall undertake the Cleaner Production Assessment study through a reputed institute/organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB	Noted and compliance assured
48	Efforts shall be made to use more fly ash in cement manufacturing without compromising the quality of the cement.	Noted and compliance assured
A8	GREEN BELT AND OTHER PLANTATION	
49	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Noted and compliance assured
50	The unit shall develop green belt within the factory premises as per the CPCB guidelines, consisting of at least three rows of trees of local species on periphery. However, if the adequate land is not available within the premises the unit shall take up adequate plantation at suitable open land on road sides and other open areas in nearby locality or schools in consultation with the Gram Panchayat / GPCB and submit an action plan of plantation for next three years to the GPCB.	Noted and compliance assured
B	OTHER CONDITIONS	
51	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum {OM} published by MoEF&CC vide no. F. No.22-34/2018-IA.III dated 09/08/2018	<ul style="list-style-type: none"> • Noted. • Compliance to the applicable standard conditions are enclosed as Attachment-2
52	In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on	Noted and compliance assured

	human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	
53	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III date Qf/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.	Budget allocated for Corporate Environmental Responsibility (CER) in EIA report to be used in line with suggested activities simultaneously with construction activities. Detailed year wise action plan for implementation of CER is enclosed as Attachment-1
54	In the event of failure of any pollution control system adopted by the unit, the unit shall be safety closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	Noted and compliance assured
55	All the recommendations / commitments made in the EIA/EMP report of the project shall be implemented.	Noted and compliance assured
56	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	Noted and compliance assured
57	During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	Noted and compliance assured
58	Pukka flooring impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Noted and compliance assured
59	The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported	Noted Provision of separate fund for Environmental Protection has been made and allocated under budgetary provision.
60	Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly	Noted and compliance assured
61	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority	Noted
62	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection} Act, 1986, Hazardous Wastes {Management, Handling and Transboundary	Noted

	Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules	
63	The granting of Environment Clearance to the project by the SEIAA does not restrain or dilute any legal action to be initiated against the project proponent by any authority including the GPCB, for commencing the construction work and production without obtaining prior Environment Clearance.	Noted
64	The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	Noted and compliance assured
65	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	Noted and compliance assured
66	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Budget estimated for Environmental Pollution Control Measures (EPCM) including CER & CSR in EIA report to be used for implementation of stipulated conditions simultaneously with construction activities
67	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	<ul style="list-style-type: none"> • Complied • information to the public regarding EC issued by the SEIAA for this project is published on 14th May 2019 both in "INDIAN EXPRESS" (English) and "GUJARAT SAMACHAR" (Gujarati) • Copy of advertisement is enclosed as Attachment-4
68	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIM or any other competent authority for the purpose of the environmental protection and management.	Noted
69	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	Noted and Complied (This compliance report is from October-2021 to March-2022 being submitted by ACL for Dahej Cement Grinding Unit)
70	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under	Noted

	the provision of Environment (Protection) Act, 1986	
71	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Noted
72	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted
73	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	Noted
74	The project authorities shall inform the GPCB, Regional Office of MOEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Financial closure of project is awaited. It will be informed to RO-GPCB, Bharuch and SEIAA once approval is in place. CTE of the project has been obtained. (Attachment - 5) Construction of the project started in October' 2021.
75	This environmental clearance is valid for seven years from the date of issue	Noted
76	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010	Noted
77	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.	Noted



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

STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

Government of Gujarat

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

Date: 3 MAY 2019

By R P A D

Time Limit

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

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

Dear Sir,

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

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

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

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

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

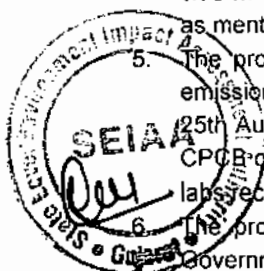
A. CONDITIONS:

A. 1 SPECIFIC CONDITION:

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

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

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



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

A. 2 WATER :

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

A. 3 AIR:

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

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

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

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

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

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

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

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



Gujarat SOLID / HAZARDOUS WASTE:

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

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

A. 5 SAFETY:

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

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

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

A. 6 NOISE:

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

A. 7 CLEANER PRODUCTION AND WASTE MINIMISATION:

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

A. 8 GREEN BELT AND OTHER PLANTATION:


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

B. OTHER CONDITIONS:

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

65. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.
66. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
67. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
68. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
69. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
70. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
71. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
72. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
73. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
74. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
75. This environmental clearance is valid for seven years from the date of issue.
76. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
77. Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.

With regards,
Yours sincerely,


S. M. SAIYAD
Member Secretary

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

YEAR WISE BUDGET ALLOCATION FOR ACTIVITIES UNDER CORPORATE ENVIRONMENT RESPONSIBILITY OF DAHEJ CEMENT GRINDING UNIT (RS. IN CRORES)

CER Activities	1st Year	2nd Year	3rd Year	4th Year	5th Year	Total
Infrastructure development for Water: - Water conservation campaign through workshop program - Rain water harvesting either by percolation wells or tanks	0.65	0.65	0.65	0.65	0.65	3.25
Contribution to various Govt. Schemes: - Solar lighting in near-by locality - Taking up the cleanliness drive for near-by areas	0.48	0.48	0.48	0.48	0.48	2.38
Plantation in Communities Areas	0.12	0.12	0.12	0.12	0.12	0.58
Scientific Support and Awareness to local Farmers: - Awareness in near-by villages farmers to increase yield of crop - Third party audit of CER activities	0.06	0.06	0.06	0.06	0.06	0.29
Contingency Budget	0.03	0.03	0.03	0.03	0.03	0.15
Total	1.3	1.3	1.3	1.3	1.3	6.65

Note:

- CER Budget is allocated as per the OM Dated 01.05.2018 of MoEFCC, Considering total project cost is Rs. 556.25 Crores.
- As per para 6 (ii) of OM, 1.0% of total Capital Investment i.e. from >Rs.500 Crore to ≤Rs.1000 Crore, under Green Filed Project Category fund allocated for CER should be 1.0%.
- As per Specific Condition no. 3, ACL has allocated 1.2% of total Capital investment for CER budget i.e. Rs. 6.65 Crores.
- Activity will started after Financial Closure in line with revised Capital Cost, if any.

Details of Budget Estimation for CER Activities:

Activities	Facilities	Remarks
Water conservation campaign through workshop program	<ul style="list-style-type: none"> Workshops for conserving water resource 4 in each villages per year Considering per year 2 villages will be covered 	<ul style="list-style-type: none"> No. of Workshop : 8 per year Total no. of workshop in first 5years within 10 villages covering 10km area from project boundary : 40 Budget per workshop : Rs 3.1 Lakh Total Budget : Rs 1.25 Cr.
Rain water harvesting either by percolation wells or tanks	<ul style="list-style-type: none"> Installation of rain water injection wells (RWIW) 2 in each villages Formation of percolation tanks (PT) 2 in each villages Considering per year 2 villages will be covered 	<ul style="list-style-type: none"> No. of RWIW & PT : 8 per year Total no. of RWIW and PT in first 5years within 10 villages covering 10km area from project boundary: 40 Budget per RWIW&PT: Rs 5.00 Lakh Total Budget : Rs 2.00 Cr.
Solar lighting in near-by locality	<ul style="list-style-type: none"> Installation of Solar panel poles for street lighting 20 in each villages per year Considering per year 2 villages will be covered 	<ul style="list-style-type: none"> No. of Solar Panel : 40 per year Total no. of Solar panel in first 5years within 10 villages covering 10km area from project boundary: 200 Budget per Unit : Rs0.60 Lakh Total Budget : Rs 1.2 Cr.
Taking up the cleanliness drive for near-by areas	<ul style="list-style-type: none"> Installation of Separate Dustbin for dry and wet waste and Composting pots will be 10 and 3 in each Village per year respectively Installation of Dustbin 10 in each villages Installation of Composting pots 3 in each villages Considering per year 2 villages will be covered 	<ul style="list-style-type: none"> No. of Dustbin : 20 per year Total no. of Dustbin in first 5years within 10 villages covering 10km area from project boundary : 100 Cost per Dustbin : Rs 0.10 Lakh Total Budget for Dustbin: Rs. 0.10 Cr. No. of Composting pots: 6 per year Total no. of Composting Pots in first 5years within 10 villages covering 10km area from project boundary: 30 Cost per Composting Pot : Rs3.5 Lakh Budget for composting pots : Rs. 1.05 Cr. Miscellaneous for Swachbharat: Rs. 3Lakh Total Budget : Rs 1.18 Cr.
Plantation in Communities Areas	<ul style="list-style-type: none"> Plantation of native species in study area @ 1000 per hectare Considering 10% i.e. around 2.5ha. wasteland of study area to be covered 	<ul style="list-style-type: none"> No. of trees : 2500 Budget for plantation and maintenance per tree during 1st five years : Rs 2000 Budget for tree plantation : Rs. 0.50 Cr. Miscellaneous : Rs. 0.08 Cr. Total Budget for Plantation : Rs. 0.58 Cr.
Awareness in near-by villages farmers to	<ul style="list-style-type: none"> Workshops for awareness regarding new technologies 	<ul style="list-style-type: none"> No. of Workshop : 2 per year Total no. of workshop in first 5years within 10

increase yield of crop	<p>and practices used in farming and Providing high yielding seeds</p> <ul style="list-style-type: none"> • 1 Workshops in each villages per year • Considering per year 2 villages will be covered • Considering @ One Quintal Seeds per Ha. • Considering 10% i.e. around 6 ha. Agriculture land of the study area to be covered in 10 villages in 1st five years. • Hiring of Third Party auditing Agency for Evaluation and Verification of CER activities 	<p>villages covering 10km area from project boundary: 10</p> <ul style="list-style-type: none"> • Cost per workshop : Rs 2.5 Lakh • Estimated Budget for Workshop: Rs. 25 Lakh • Total Quantity of seeds: 60 Quintal • Cost of per Quintal seed: Rs 5000 • Estimated Budget for Seeds: Rs. 3.0 Lakh • Estimated Budget for Third Party Auditing Agency: Rs 1.0 Lakh • Total Budget : Rs 0.29 Cr.
Contingency Budget	<ul style="list-style-type: none"> • Budget allocated as on required basis to the Gram Panchayats Considering the emerging issues. 	<ul style="list-style-type: none"> • Estimated Contingency Budget: Rs 3.0 Lakh per year • Total Budget : Rs 0.15 Cr.

Mechanism for Implementation of CER Activities:

A Committee shall be formed under the chairmanship Representative of District Collector involving village representative, Representative of District Pollution Control Board and ACL Plant representative.

S. No.	Members
1	Representative of District Collector
2	Representative of ACL Plant
3	Concerned Village Sarpanch
4	Representative of District Pollution Control Board (GPCB)

Functions and Responsibilities of Committee:

- i. The committee shall monitor the overall implementation of the CER activities and the disbursement of the funds.
- ii. Committee shall examine the annual targets, activities of proposed CER allocated.
- iii. Committee would review the progress of the targets and activities of proposed CER allocated.
- iv. The committee would prepare the half yearly report for the compliance providing evaluation and documentation of progress made, targets achieved and performance of the activities carried out.
- v. The committee shall ensure that the funds are used only for the prescribed for CER activities.
- vi. ACL shall release funds annually as per the allocated budget for various CER activities.
- vii. A 3rd party annual audit of the CER activities shall be carried out.

Stand Alone Dahej Grinding Unit

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

ANNEXURE- XII

Standard EC Conditions for Cement Grinding Units without Captive Power Plants:		
I.	Statutory compliance	
i.	The project proponent shall obtain forest clearance under provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest propose involved in the project.	Not Applicable No forest land involved in project area
ii.	The project proponent shall obtain clearance from the National Board for Wildlife. If applicable.	Not Applicable (There is no Wildlife Sanctuary, National Park in proposed project area.)
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented tin consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study urea).	Not Applicable
iv.	The project proponent shall obtain Consent to Establish Operator under the provisions of Air (Prevention Control of Pollution) Act, 1981 and the Water (Perversion & Control of Pollution) Act 1974 from the concerned Suite pollution Control Board Committee.	CTE has been obtained. Attachment - 5
v.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act 1974 from the concerned Suite pollution Control Board Committee.	CTE has been obtained. Attachment - 5
vi.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Noted and Compliance assured
II.	Air quality monitoring and preservation	

i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25 th August 2014 (Cement) and subsequent amendment dated 9 th May, 2016 (Cement) and concerned to SPCB and CPCB online severs and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Noted and Compliance assured
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.	Noted and Compliance assured
iii.	The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least four locations (One within and three outside the plant area at an angle of 120° each), covering upwind and downwind direction (case to case basis small plant Manual, Large plants Continuous)	Construction work for the production of 1 MMPTA cement is started in October' 2021 and scheduled to be completed by March' 2023. Quarterly Ambient Air Quality monitoring report for January to March 2022 is enclosed (Attachment - 6)
iv.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stock monitoring and manual monitoring of air quality fugitive emissions to Regional office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Noted and Compliance assured. Monthly Summary report of emission and AAQ data to GPCB and MoEF&CC will be monitored and submitted during commissioning of project.
v.	Appropriate Air Pollution Control (APC) system shall be provided or all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Noted and Compliance assured
vi.	The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.	Noted and Compliance assured
vii.	Pollution control system in the cement plant shall be provided as per the CREP guidelines of CPCB.	Noted and Compliance assured
viii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads shop floors, roof regularly.	Noted and Compliance assured

ix.	Ensure covered transportation and conveying of raw material to prevent species and dust generation; Use closed bulkers for carrying fly ash.	Noted and Compliance assured
x.	Provide wind shelter fence and chemical spraying on the raw material stock piles, and	Noted and Compliance assured
xi.	Have separate truck parking area and monitor vehicular emissions at regular interval.	Noted and Compliance assured
xii.	Efforts shall be made to reduce impact of the transport of the raw materials and end Products on the surrounding environment including agricultural land by the use of covered conveyor belts/ railways as a mode of transport.	Noted and Compliance assured
xiii.	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses cement bagging plants.	Noted and Compliance assured
III.	Water quality monitoring and preservation	
i.	The project proponent shall install effluent monitoring system with respect to Standards prescribed in Environment (Protection) Rules 1986 vide G.S.R No. 612 (E) dated 25 August, 2014 (Cement) and subsequent amendment dated 9 th May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through lab recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories (case to case basis small plants; Manual: Large plants: Continuous).	Not Applicable Generated effluent will be treated in CETP of Dahej Industrial Estate.
ii.	The project proponent shall monitor regularly ground water quality at least twice a layer (pre and post monsoon) at sufficient numbers of piezometer sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Noted and Compliance assured
iii.	The project proponent shall submit monthly summary report of continuous effluent monitoring and result of manual effluent testing and natural monitoring of ground Water quality to Regional office of MoEF&CC, Zonal office of SPCB along with six monthly report.	Noted and Compliance assured
iv.	Adhere to 'Zero Liquid Discharge'.	Noted and Compliance assured
v.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Noted and Compliance assured
vi.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due	Noted and Compliance assured

	to surface runoff.	
vii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Noted and Compliance assured
viii.	Water meters shall be provided at the inlet to all unit processes in the cement plant	Noted and Compliance assured
ix.	The project proponent shall make efforts to minimise water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Noted and Compliance assured
IV.	Noise monitoring and prevention	
i.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the ministry as a part of six-Monthly compliance report.	Noted and Compliance assured
ii.	The ambient noise levels should confirm to the standards prescribed under E(P)A Rules 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time	Noted and Compliance assured
V.	Energy Conservation measures	
i.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights parking around project area and maintain the same regularly.	Provision for harnessing of Solar energy is envisaged and to be executed during construction and operation stage.
ii.	Provide the projects proponent for LED lights in their offices and residential areas.	Provision for LED Lights in offices and Common areas is envisaged and to be executed during construction and operation stage.
iii.	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS Standard.	Noted and Compliance assured
VI.	Waste management	
i.	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016	Noted and Compliance assured
ii.	Kitchen waste shall be composed or converted to biogas for further use (to be decided on case basis depending on type and size of plant).	Noted and Compliance assured
VII.	Green Belt	
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Noted and Compliance assured
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including	Noted and Compliance assured

	carbon sequestration including plantation.	
VIII.	Public hearing and Human health issues	
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Noted and Compliance assured
ii.	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Noted and Compliance assured
iii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Not Applicable. 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 nearby village.
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Noted and Compliance assured
IX.	Corporate Environment Responsibility	
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1 May 2018, as applicable. Regarding Corporate Environment Responsibility.	Noted and Compliance assured. Detailed CER budget estimation is enclosed as Attachment- 1
ii.	The company shall have well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviating/ violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as part of six-monthly report.	Noted and Compliance assured
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Environment cell has been established and working under Head.
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the	Noted and Compliance assured

	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 or any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.	
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted and Compliance assured
vi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	CREP is being implemented.
X.	Miscellaneous	
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by Prominently advertising it at last in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	<ul style="list-style-type: none"> • Complied • information to the public regarding EC issued by the SEIAA for this project is published on 14th May 2019 both in "INDIAN EXPRESS" (English) and "GUJARAT SAMACHAR" (Gujarati) • Copy of advertisement is enclosed as Attachment-4
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Noted and Compliance assured
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted and Complied (This compliance report is from October-2021 to March-2022 being submitted by ACL for Dahej Cement Grinding Unit)
iv.	The project proponent shall monitor the Criteria pollutants level namely: PM10, SOx, NOx (ambient levels as well as stack emission) or critical sectorial parameter indicated for the project and display the same at a convenient location for disclosure to the public and put on the website of the company.	Noted and Compliance assured. Construction work for the production of 1 MMPTA cement is started in October' 2021 and scheduled to be completed by March'

		2023. Quarterly Ambient Air Quality monitoring report for January to March 2022 is enclosed (Attachment - 6)
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest und Climate Change at environment clearance portal.	Noted and Complied (This compliance report is from October-2021 to March-2022 being submitted by ACL for Dahej Cement Grinding Unit)
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Noted and Compliance assured
vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities. Commencing the land development work and start of production operation by the project.	Financial closure of project is awaited. It will be informed to RO-GPCB, Bharuch and SEIAA once approval is in place.
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted and Compliance assured
ix.	The project proponent shall abide by all the commitments and recommendation made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Export Appraisal Committee.	Noted and Compliance assured
x.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MokF&CC).	Noted and Compliance assured
xi.	Concealing factual data or submission of false/fabricated data may result revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above condition not satisfactory.	Noted
xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
xiv.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions the project	Noted

	authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	
xv.	The above conditions shall be enforced, inter-alia under the provision of the Water (Prevention & Control of Pollution) Act. 1974, the Air (Prevention & Control of Pollution) Act. 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	Noted
xvi.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted

POINTWISE RESPONSE TO THE ISSUES RAISED DURING PUBLIC HEARING

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

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

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

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

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

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

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

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

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

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

THE INDIAN EXPRESS, TUESDAY, MAY 14, 2019

3 GUJARAT

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Public Information

State Level Environment Impact Assessment Authority (SEIAA), Gujarat, has granted Environmental Clearance (EC) for Stand Alone Cement Grinding Unit, Capacity 2.0 MMTPA of Adani Cementation Limited at Survey No: 136/P, 137/P, 138/P, 139/P, 140/P, 141/P, 144/P, 145/P, 151/P, 152/P, 153/P, 154/P, 155/P, 162/P, 174/P, 175/P, 176/P, 178/P, 179/P, 187/P, 188/P, 189/P, 190/P, 191/P, Village: Dahej and Survey No. 125/P, 124/P of Village Lakhigam, Dahej Industrial Estate, Taluka: Vagra, District: Bharuch (Gujarat).

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

- **Reference:** Letter no SEIAA/GUJ/EC/3(b)/633/2019 dated 03.05.2019 of SEIAA, Gujarat
- **Technology:** Vertical Roller Mill / Roller Press Technology have been proposed for grinding.
- **Raw Material:** Clinker, Fly ash, Gypsum and Slag will be used for Cement manufacturing.
- **Water:** Fresh water requirement for the proposed project is 300KLD and will be provided by GIDC.
- **Cement:** PPC, PSC, OPC & PCC will be produced in the proposed project.
- **Compliance:** Compliance of EC conditions as per Environment (Protection) Act, 1986, Rules and MoEF&CC Notifications issued time to time will be done. The project proponent will submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to SEIAA, Gujarat.
- **Capital Cost:** Total estimated project cost is Rs. 556.26 Crores. Budget proposed for Environmental Protection Measures is estimated as Rs. 14.8 Crores (Capital) and Rs. 1.32 Crores (Annual). Budget proposed for implementation of CSR & CER activities is as Rs. 665 Lac & Rs. 275 Lac respectively.

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

Sd-
Authorised Signatory
Adani Cementation Limited

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

મંગળવાર, તા.૧૪ મે, ૨૦૧૯

ગુજરાત સમાચાર (વડોદરા આવૃત્તિ) ૧૫

બહાર માહિતી

સ્ટેટ લેવલ એન્વાયનમેન્ટ ઇમ્પેક્ટ એસેસમેન્ટ ઓથોરિટી (એસ.ઈ.આઈ. એ.ઓ.), ગુજરાત દ્વારા અદાણી સિમેન્ટેશન લિમિટેડની સ્ટેન્ડ અલોન સિમેન્ટ ગ્રાઈન્ડિંગ પ્લાન્ટ માટે એન્વાયનમેન્ટ ક્લિયરન્સ (ઇ.સી) આપવામાં આવ્યું છે જેની ક્રમતા ૨.૦ એમ.એમ.ટી.પી.એ. છે. સર્વેનં. 136/P, 137/P, 138/P, 139/P, 140/P, 141/P, 144/P, 145/P, 151/P, 152/P, 153/P, 154/P, 155/P, 162/P, 174/P, 175/P, 176/P, 178/P, 179/P, 187/P, 188/P, 189/P, 190/P, 191/P, ગામ: દહેજ અને સર્વે નં. 125/P, 124/P ગામ: લખિગામ, દહેજ ઔદ્યોગિક એસ્ટેટ, તાલુકા: વાગરા, જિલ્લા: ભરૂચ (ગુજરાત).

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

- **સંદર્ભ:** એસ.ઈ.આઈ.એ.ઓ., ગુજરાતના પત્ર SEIAA/GUJ/EC/ 3(બી)/633/2019 તારીખ ૦૩.૦૫.૨૦૧૯
- **ટેકનોલોજી:** વર્ટિકલ રોલર મીલ / રોલર પ્રેસ ટેકનોલોજી માધ્યમ દ્વારા ગ્રાઈન્ડિંગ કરવા માટે પ્રસ્તાવિત છે.
- **કાચો માલ:** સિલિકા, રામ, જીપ્સમ અને રહેંગનો ઉપયોગ સિમેન્ટ ઉત્પાદન માટે કરવામાં આવશે.
- **પાણી:** સૂચિત પ્રોજેક્ટ માટે પાણીની જરૂરિયાત ૩૦૦ કિલો લિટર પ્રતી દિવસ છે, અને તે જી.આઈ.ડી.સી. દ્વારા પૂરું પાડવામાં આવશે.
- **સિમેન્ટ:** પ્રસ્તાવિત પ્રોજેક્ટમાં પી.પી.સી., પી.એસ.સી., ઓ.પી.સી. અને પી.સી.સી. પ્રકારનો સિમેન્ટ બનાવવામાં આવશે.
- **અનુપાલન:** પર્યાવરણ (સંરક્ષણ) કાયદો, ૧૯૮૬ અને એમ.ઓ.ઇ.એફ અને સી.સી.શરતો અનુસાર ઇ.સી. શરતોનું પાલન કરવામાં આવશે. પ્રોજેક્ટ પ્રસ્તાવકર્તા, ગુજરાત માટે પર્યાવરણીય સલામતીના અમલીકરણની સ્થિતિ પર છ માસિક પાલન અહેવાલ જુદાંજુદાં ને રજૂ કરશે.
- **મૂડી ખર્ચ:** કુલ અનુમાનિત પ્રોજેક્ટ ખર્ચ રૂ. ૫૫૬.૨૬ કરોડ છે. પર્યાવરણીય સુરક્ષા પગલાં હેતુ આશરે રૂ. ૧૪.૮ કરોડ (મૂડી) અને રૂ. ૧.૩૨ કરોડ (વાર્ષિક)નું પ્રોજેક્ટ બજેટમાં પ્રાવધાન કરવામાં આવેલ છે. સીએસઆર અને સીઈઆર પ્રવૃત્તિઓના અમલીકરણ માટે અનુક્રમે બજેટ રૂ. ૬૬૫ લાખ, રૂ. ૨૭૫ લાખનું પ્રાવધાન કરવામાં આવેલ છે.

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

એસડી/-
અધિકૃત હસ્તાક્ષર
અદાણી સિમેન્ટેશન લિમિટેડ

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



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382010

Phone : (079) 23222425

(079) 23222152

Fax : (079) 23232156

Website : www.gpcb.gov.in

Application For CTE after EC

CTE-46900

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

To,

M/s. Adani Cementation Limited,

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

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

City : Ahmedabad ,

Dist : Bharuch ,

Taluka : Vagra

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

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

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

Sir,

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

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

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



For and on behalf of
Gujarat Pollution Control Board

F.M. Modi

F.M. Modi
ROH Head - Bharuch

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

Attachment - 6

Quarterly Environmental Monitoring report
(January 2022 - March 2022)



TC-7099

KADAM ENVIRONMENTAL CONSULTANTS

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(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.

Phone : (O) 0265 - 6131000, 6131001



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - WATER

REPORT NO.: MAR22/215/01 (ULR- TC709922000006334F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2.	Sample ID: 2251918247 - 215MR22W01	3.	Client Representative: Mr. Abhishek Sood
4.	Sample Date: 30.03.2022	5.	Sample Collected By: Mr. Vimal
6.	Analysis commenced on: 02.04.2022	7.	Analysis Completed on: 06.04.2022
8.	Reporting Date: 06.04.2022	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed ✓	11.	Group: Water
12.	Sampling Location: Borewell Water (Lakhigam)	13.	Product: Borewell Water
14.	Sampling Method: IS:3025 (Part 1)-1987	15.	Sample Received Date: 02.04.2022

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	pH		8.22	N.A.	APHA 23 rd Edition 4500-H ⁺ B
2.	Turbidity	NTU	<0.1	N.A.	APHA 23 rd Edition 2130- B
3.	Colour	Pt-CO	<1	N.A.	APHA 23 rd Edition 2120 B
4.	Sulphates	mg/L	46.37	N.A.	APHA 23 rd Edition 4500 SO ⁴ E
5.	Fluoride	mg/L	<0.05	N.A.	APHA 23 rd Edition 4500 F-D
6.	Nitrate	mg/L	<0.1	N.A.	IS 3025 (Part 34) (ii): 1988
7.	Phenolic Compound	mg/L	<0.001	N.A.	APHA 23 rd Edition 5530 D
8.	Aluminium	mg/L	<0.03	N.A.	APHA 23 rd Edition 3500 Al - B
9.	Anionic Detergent	mg/L	<0.02	N.A.	APHA 23 rd Edition 5540-C
10.	Boron	mg/L	<0.05	N.A.	APHA 23 rd Edition 4500 B - C
11.	Arsenic	mg/L	<0.01	N.A.	APHA 23 rd Edition 3500 As - B
12.	Selenium	mg/L	<0.01	N.A.	APHA 23 rd Edition 3500 SC - C
13.	Total Dissolved Solids	mg/L	268	N.A.	APHA 23 rd Edition 2540 C
14.	Mineral Oil	mg/L	<1	N.A.	APHA 23 rd Edition 5520 B
15.	Total Alkalinity	mg/L	190	N.A.	APHA 23 rd Edition 2320 B
16.	Total Hardness	mg/L	210	N.A.	APHA 23 rd Edition 2340 C
17.	Calcium	mg/L	34	N.A.	APHA 23 rd Edition 3500 - Ca B
18.	Magnesium	mg/L	77	N.A.	APHA 23 rd Edition 3500 - Mg B
19.	Residual Chlorine	mg/L	<0.1	N.A.	IS 3025 (Part - 26): 1986
20.	Chlorides	mg/L	14.25	N.A.	APHA 23 rd Edition 4500 Cl ⁻ B
21.	Cadmium	mg/L	<0.003	N.A.	APHA 23 rd Edition 3111 B
22.	Lead	mg/L	<0.01	N.A.	APHA 23 rd Edition 3111 B
23.	Copper	mg/L	<0.03	N.A.	APHA 23 rd Edition 3111 B
24.	Iron	mg/L	<0.05	N.A.	APHA 23 rd Edition 3111 B
25.	Zinc	mg/L	<0.03	N.A.	APHA 23 rd Edition 3111 B
26.	Total Chromium	mg/L	<0.02	N.A.	APHA 23 rd Edition 3500 Cr - B
27.	Manganese	mg/L	<0.02	N.A.	APHA 23 rd Edition 3111 B
28.	Mercury	mg/L	<0.001	N.A.	APHA 23 rd Edition 3112-B

Remark :

Authorised By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - WATER

DOC. NO.: LAB-FMT-055	Issue No.: 02	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - WATER

REPORT NO.: MAR22/215/02

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited., CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2.	Sample ID: 2251918247 - 215MR22W01	3.	Client Representative: Mr. Abhishek Sood
4.	Sample Date: 30.03.2022	5.	Sample Collected By: Mr. Vimal
6.	Analysis commenced on: 02.04.2022	7.	Analysis Completed on: 06.04.2022
8.	Reporting Date: 06.04.2022	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed ✓	11.	Group: Water
12.	Sampling Location: Borewell Water (Lakhigam)	13.	Product: Borewell Water
14.	Sampling Method: IS:3025 (Part 1)-1987	15.	Sample Received Date: 02.04.2022

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	Odour	-	: Agreeable	N.A.	APHA: (2150 B) 23 rd Edition
2.	Taste	-	: Agreeable	N.A.	IS 3025 (Part 7)
3.	Cyanide	mg/L	: <0.05	N.A.	APHA: (4500 CN E) 23 rd Edition

Remark:

Authorised By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - WATER

DOC. NO.: LAB-FMT-055	Issue No.: 02	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



TC-7099

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - MICROBIOLOGY

REPORT NO.: MAR22/215/03(ULR- TC70992200006335F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2.	Sample ID: 2251918247 -215MR22W01	8.	Client Representative: Mr. Abhishek Sood
3.	Sample Date: 30.03.2022	9.	Sample Collected By: Mr. Vimal
4.	Packing Condition & Quantity: Sealed ✓	10.	Discipline: Biological
5.	Analysis commenced on: 04.04.2022	11.	Group: Water
6.	Analysis Completed on: 06.04.2022	12.	Product: Borewell Water
7.	Reporting Date: 06.04.2022	13.	Sampling Method: IS 1622
14.	Sampling Location: Borewell Water (Lakhigam)	15.	Sample Received Date:04.04.2022

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	Total Coliform Bacteria	: MPN/100ml	N.D.(<1.8)	N.A.	APHA 23 rd Edition (9221 B, C)
2.	E. coli	: /100ml	Absent	N.A.	APHA 23 rd Edition (9221 B, G)

Remarks: N.D. - Not Detected.

Authorized by:

Name: Priyanka Kotak

Designation: Microbiologist

- NOTE :
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re-sampling may be done, if required, with written approval of the laboratory.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT- MICROBIOLOGY

DOC. NO.: LAB-FMT-203	Issue No.: 01	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01.04.2019	Revision Date: 01.03.2021



TC-7099

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - WATER

REPORT NO.: MAR22/215/04 (ULR- TC70992200007095F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2.	Sample ID: 2251918247 - 215MR22W02	3.	Client Representative: Mr. Abhishek Sood
4.	Sample Date: 31.03.2022	5.	Sample Collected By: Mr. Vimal
6.	Analysis commenced on: 08.04.2022	7.	Analysis Completed on: 12.04.2022
8.	Reporting Date: 13.04.2022	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed ✓	11.	Group: Water
12.	Sampling Location: Pond Water (Lakhigam)	13.	Product: Pond Water
14.	Sampling Method: IS:3025 (Part 1)-1987	15.	Sample Received Date: 08.04.2022

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	pH	:	7.68	N.A.	APHA 23 rd Edition 4500-H ⁺ B
2.	Turbidity	NTU	<0.1	N.A.	APHA 23 rd Edition 2130- B
3.	Colour	Pt-CO	<1	N.A.	APHA 23 rd Edition 2120 B
4.	Sulphates	mg/L	27.82	N.A.	APHA 23 rd Edition 4500 SO ⁴ E
5.	Fluoride	mg/L	<0.05	N.A.	APHA 23 rd Edition 4500 F—D
6.	Nitrate	mg/L	0.73	N.A.	IS 3025 (Part 34) (ii): 1988
7.	Phenolic Compound	mg/L	<0.001	N.A.	APHA 23 rd Edition 5530 D
8.	Aluminium	mg/L	<0.03	N.A.	APHA 23 rd Edition 3500 Al - B
9.	Anionic Detergent	mg/L	<0.02	N.A.	APHA 23 rd Edition 5540-C
10.	Boron	mg/L	<0.05	N.A.	APHA 23 rd Edition 4500 B - C
11.	Arsenic	mg/L	<0.01	N.A.	APHA 23 rd Edition 3500 As - B
12.	Selenium	mg/L	<0.01	N.A.	APHA 23 rd Edition 3500 SC - C
13.	Total Dissolved Solids	mg/L	284	N.A.	APHA 23 rd Edition 2540 C
14.	Mineral Oil	mg/L	<1	N.A.	APHA 23 rd Edition 5520 B
15.	Alkalinity	mg/L	130	N.A.	APHA 23 rd Edition 2320 B
16.	Total Hardness	mg/L	220	N.A.	APHA 23 rd Edition 2340 C
17.	Calcium	mg/L	52	N.A.	APHA 23 rd Edition 3500 - Ca B
18.	Magnesium	mg/L	22	N.A.	APHA 23 rd Edition 3500 - Mg B
19.	Residual Chlorine	mg/L	<0.1	N.A.	IS 3025 (Part - 26): 1986
20.	Chlorides	mg/L	14.36	N.A.	APHA 23 rd Edition 4500 Cl ⁻ B
21.	Cadmium	mg/L	<0.003	N.A.	APHA 23 rd Edition 3111 B
22.	Lead	mg/L	<0.01	N.A.	APHA 23 rd Edition 3111 B
23.	Copper	mg/L	<0.03	N.A.	APHA 23 rd Edition 3111 B
24.	Iron	mg/L	<0.05	N.A.	APHA 23 rd Edition 3111 B
25.	Zinc	mg/L	<0.03	N.A.	APHA 23 rd Edition 3111 B
26.	Total Chromium	mg/L	<0.02	N.A.	APHA 23 rd Edition 3500 Cr - B
27.	Manganese	mg/L	<0.02	N.A.	APHA 23 rd Edition 3111 B
28.	Mercury	mg/L	<0.001	N.A.	APHA 23 rd Edition 3112-B

Remark :

Authorised By -

Name : Sapana Amin

Designation : Lab Incharge

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 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - WATER

DOC. NO.: LAB-FMT-055	Issue No.: 02	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - WATER

REPORT NO.: MAR22/215/05

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited., CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2.	Sample ID: 2251918247 - 215MR22W02	3.	Client Representative: Mr. Abhishek Sood
4.	Sample Date: 31.03.2022	5.	Sample Collected By: Mr. Vimal
6.	Analysis commenced on: 08.04.2022	7.	Analysis Completed on: 12.04.2022
8.	Reporting Date: 13.04.2022	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed ✓	11.	Group: Water
12.	Sampling Location: Pond Water (Lakhigam)	13.	Product: Pond Water
14.	Sampling Method: IS:3025 (Part 1)-1987	15.	Sample Received Date: 08.04.2022

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	Odour	-	: Agreeable	N.A.	APHA: (2150 B) 23 rd Edition
2.	Taste	-	: Agreeable	N.A.	IS 3025 (Part 7)
3.	Cyanide	mg/L	: <0.05	N.A.	APHA: (4500 CN E) 23 rd Edition

Remark:

Authorised By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - WATER

DOC. NO.: LAB-FMT-055	Issue No.: 02	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



TC-7099

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Phone : (O) 0265 - 6131000, 6131001



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - MICROBIOLOGY

REPORT NO.: MAR22/215/06 (ULR- TC709922000007096F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2.	Sample ID: 2251918247 -215MR22W02	8.	Client Representative: Mr. Abhishek Sood
3.	Sample Date: 30.03.2022	9.	Sample Collected By: Mr. Vimal
4.	Packing Condition & Quantity: Sealed ✓	10.	Discipline: Biological
5.	Analysis commenced on: 11.04.2022	11.	Group: Water
6.	Analysis Completed on: 13.04.2022	12.	Product: Pond Water
7.	Reporting Date: 13.04.2022	13.	Sampling Method: IS 1622
14.	Sampling Location: Pond Water(Lakhigam)	15.	Sample Received Date: 11.04.2022

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	Total Coliform Bacteria	: MPN/100ml	N.D.(<1.8)	N.A.	APHA 23 rd Edition (9221 B, C)
2.	E. coli	: /100ml	Absent	N.A.	APHA 23 rd Edition (9221 B, G)

Remarks: N.D. - Not Detected.

Authorized by:

Name: Priyanka Kotak

Designation: Microbiologist

- NOTE :
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re-sampling may be done, if required, with written approval of the laboratory.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT- MICROBIOLOGY

DOC. NO.: LAB-FMT-203	Issue No.: 01	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01.04.2019	Revision Date: 01.03.2021



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ENVIRONMENTAL MONITORING REPORT



LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/07 (ULR- TC709922000007097F)

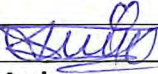
SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ01	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Project Office		
6.	Sampling time: 12:00 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM ₁₀	µg /m ³	: 53	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 15	60	Guidelines by CPCB(Vol-1)
3.	Oxides of Sulphur (SO ₂)	µg /m ³	: 6.58	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	µg /m ³	: 13.92	80	IS 5182 (Part 6) :2006

Remark :

Authorized By - 

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
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 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



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ENVIRONMENTAL MONITORING REPORT



LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/08 (ULR- TC709922000007098F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ02	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Labour Area		
6.	Sampling time: 12:30 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
		Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Station category: Industrial
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM ₁₀	µg /m ³	: 61	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 18	60	Guidelines by CPCB(Vol-1)
3.	Oxides of Sulphur (SO ₂)	µg /m ³	: 7.89	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	µg /m ³	: 19.77	80	IS 5182 (Part 6) :2006

Remark :

Authorized By - 

Name : Sapana Amin

Designation : Lab Incharge

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-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021

Page 1 of 1



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/09 (ULR- TC709922000007099F)


SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ03	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Security Main Gate		
6.	Sampling time: 13:00 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
		Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Station category: Industrial
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM ₁₀	µg /m ³	: 78	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 16	60	Guidelines by CPCB(Vol-1)
3.	Oxides of Sulphur (SO ₂)	µg /m ³	: 9.21	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	µg /m ³	: 13.51	80	IS 5182 (Part 6) :2006

Remark :

Authorized By - 

Name : Sapana Amin

Designation : Lab Incharge

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 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/10 (ULR- TC709922000007100F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ04	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Store Room		
6.	Sampling time: 11:45 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Cross wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM ₁₀	µg /m ³	: 44	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 14	60	Guidelines by CPCB(Vol-1)
3.	Oxides of Sulphur (SO ₂)	µg /m ³	: 4.82	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	µg /m ³	: 17.68	80	IS 5182 (Part 6) :2006

Remark :

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

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-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/11 (ULR- TC709922000007101F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ05	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Project Office		
6.	Sampling time: 11:30 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Down wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM ₁₀	µg /m ³	: 66	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 19	60	Guidelines by CPCB(Vol-1)
3.	Oxides of Sulphur (SO ₂)	µg /m ³	: 9.64	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	µg /m ³	: 16.01	80	IS 5182 (Part 6) :2006

Remark :

Authorized By - 

Name : Sapana Amin

Designation : Lab Incharge

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-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



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ENVIRONMENTAL MONITORING REPORT



LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/12 (ULR- TC709922000007102F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ06	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Store Room		
6.	Sampling time: 13:30 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
		Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Station category: Industrial
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM ₁₀	µg /m ³	: 40	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 17	60	Guidelines by CPCB(Vol-1)
3.	Oxides of Sulphur (SO ₂)	µg /m ³	: 7.89	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	µg /m ³	: 12.39	80	IS 5182 (Part 6) :2006

Remark :

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

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3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



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ENVIRONMENTAL MONITORING REPORT



LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/13 (ULR- TC709922000007103F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ07	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Security Main Gate		
6.	Sampling time: 12:30 hr	7.	Sampling Duration: -		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
		Rain: No Rain	Wind Direction: Down wind	Wind blowing from: -	Station category: Industrial
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM ₁₀	µg /m ³	: 71	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 13	60	Guidelines by CPCB(Vol-1)
3.	Oxides of Sulphur (SO ₂)	µg /m ³	: 8.33	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	µg /m ³	: 14.06	80	IS 5182 (Part 6) :2006

Remark :

Authorized By - 

Name : Sapana Amin

Designation : Lab Incharge

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 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/14 (ULR- TC709922000007104F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ08	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 30.03.2022	5.	Sampling Location: Near Labour Gate		
6.	Sampling time: 14:00 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Low	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	PM ₁₀	µg /m ³	: 60	100	IS 5182 (Part 23) : 2006
2.	PM _{2.5}	µg /m ³	: 12	60	Guidelines by CPCB(Vol-1)
3.	Oxides of Sulphur (SO ₂)	µg /m ³	: 6.14	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	µg /m ³	: 15.59	80	IS 5182 (Part 6) :2006

Remark :

Authorized By - 

Name : Sapana Amin

Designation : Lab Incharge

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3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



ENVIRONMENTAL MONITORING REPORT

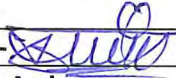
LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/15

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ01	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Project Office		
6.	Sampling time: 12:00 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	CO	mg/m ³	: 0.682	2	IS 5182(Part 10): 1999
Remark :					
Authorized By - 					
Name : Sapana Amin			Designation : Lab Incharge		

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



ENVIRONMENTAL MONITORING REPORT


LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/16

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ02	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Labour Area		
6.	Sampling time: 12:30 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	CO	mg/m ³	: 0.789	2	IS 5182(Part 10): 1999
Remark :					
Authorized By - 					
Name : Sapana Amin			Designation : Lab Incharge		

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



ENVIRONMENTAL MONITORING REPORT


LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/17

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ03	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Security Main Gate		
6.	Sampling time: 13:00 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	CO	mg/m ³	: 0.812	2	IS 5182(Part 10): 1999
Remark :					
Authorized By - 					
Name : Sapana Amin			Designation : Lab Incharge		

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/18

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ04	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Store Room		
6.	Sampling time: 11:45 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed <input checked="" type="checkbox"/>	Filter Paper: Packed <input checked="" type="checkbox"/> Bladder: Clamped <input checked="" type="checkbox"/>		
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Cross wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	CO	mg/m ³	: 0.891	2	IS 5182(Part 10): 1999

Remark :

Authorized By - 

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/19


SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ05	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Project Office		
6.	Sampling time: 11:30 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Down wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	CO	mg/m ³	: 0.680	2	IS 5182(Part 10): 1999

Remark :

Authorized By - 

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
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 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/20

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ06	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Store Room		
6.	Sampling time: 13:30 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	CO	mg/m ³	: 0.712	2	IS 5182(Part 10): 1999

Remark :

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE:
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



ENVIRONMENTAL MONITORING REPORT

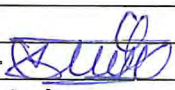
LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/21

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ07	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Security Main Gate		
6.	Sampling time: 12:30 hr	7.	Sampling Duration: -		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Medium	Wind speed: Smooth	Cloud cover: Clear sky
		Rain: No Rain	Wind Direction: Down wind	Wind blowing from: -	Station category: Industrial
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	CO	mg/m ³	: 0.912	2	IS 5182(Part 10): 1999
Remark :					
Authorized By - 					
Name : Sapana Amin			Designation : Lab Incharge		

- NOTE:
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 - 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



ENVIRONMENTAL MONITORING REPORT


LABORATORY TEST REPORT – AMBIENT AIR

REPORT NO.: MAR22/215/22

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.				
2.	Sample ID: 2251918247 – 215MR22AQ08	3.	Client Representative: Mr. Abhishek Sood		
4.	Sampling Date: 31.03.2022	5.	Sampling Location: Near Labour Gate		
6.	Sampling time: 14:00 hr	7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 05.04.2022	9.	Analysis Completed on: 05.04.2022		
10.	Reporting Date: 13.04.2022	11.	Discipline: Chemical		
12.	Sample Collected By: Mr. Vimal	13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS Method	15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed ✓	Filter Paper: Packed ✓	Bladder: Clamped ✓	
17.	Environment Condition:	Temp: Normal	Humidity: Low	Wind speed: Smooth	Cloud cover: Clear sky
	Rain: No Rain	Wind Direction: Up wind	Wind blowing from: -	Station category: Industrial	
18.	Sample Received Date: 05.04.2022				

TEST RESULTS

S.No	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	CO	mg/m ³	: 0.682	2	IS 5182(Part 10): 1999
Remark :					
Authorized By - 					
Name : Sapana Amin			Designation : Lab Incharge		

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2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT

DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021



TC-7099

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - SOIL

REPORT NO.: MAR22/215/23 (ULR- TC709922000007105F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2.	Sample ID: 2251918247 – 215MR22ST01	3.	Client Representative: Mr. Abhishek Sood
4.	Sampling Date: 28.03.2022	5.	Sampling Location: Soil Sample (Near Adani Site)
6.	Analysis commenced on: 02.04.2022	7.	Analysis Completed on: 12.04.2022
8.	Reporting Date: 13.04.2022	9.	Sample Collected By: Mr. Vimal
10.	Discipline: Chemical		
11.	Group: Pollution and Environment		
12.	Product: Soil		
13.	Description of Sample: Packed and Sealed in Polythene bags. ✓	Physical Status: Solid	Color: Light Brown

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	Calcium	%	: 0.064	N.A.	LAB-SOP-129
2.	Magnesium	%	: 0.048	N.A.	LAB-SOP-130
3.	Potassium	%	: 0.058	N.A.	LAB-SOP-128
4.	Phosphorous	%	: 0.002	N.A.	IS 10158 (Part 2): 1973 (RA-2010)
5.	Sulphur	%	: 0.02	N.A.	IS 2720 (Part 27): 1977 (RA-2015)
6.	Iron	%	: N.D.	N.A.	EPA-3050B
7.	Copper	gm/kg	: <0.006	N.A.	EPA-3050B
8.	Zinc	gm/kg	: <0.006	N.A.	EPA-3050B
9.	Manganese	gm/kg	: <0.004	N.A.	EPA-3050B
10.	Nitrogen	gm/kg	: 0.12	N.A.	IS 14684:1999
11.	Molybdenum	ppm	: N.D.	N.A.	EPA-3050B

Remark: N.D. - Not Detected.

Authorised By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
2) Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.
3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - SOIL

DOC. NO.: LAB-FMT-054	Issue No.: 02	Revision No.: 02
Effective Date: 01.07.2020	Issue Date: 01-01-2015	Revision Date: 01.07.2020

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - SOIL

REPORT NO.: MAR22/215/24

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Adani Cementation Limited. CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2.	Sample ID: 2251918247 – 215MR22ST01	3.	Client Representative: Mr. Abhishek Sood
4.	Sampling Date: 28.03.2022	5.	Sampling Location: Soil Sample (Near Adani Site)
6.	Analysis commenced on: 02.04.2022	7.	Analysis Completed on: 12.04.2022
8.	Reporting Date: 13.04.2022	9.	Sample Collected By: Mr. Vimal
10.	Discipline: Chemical		
11.	Group: Pollution and Environment		
12.	Product: Soil		
13.	Description of Sample: Packed and Sealed in Polythene bags. ✓	Physical Status: Solid	Color: Light Brown

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	Chloride	%	0.12	N.A.	APHA: (4500 Cl B) 23 rd Edition
2.	Boron	gm/kg	<0.05	N.A.	APHA 23 rd Edition 4500 B - C

Remark :

Authorised By -

Name : Sapana Amin

Designation : Lab Incharge

- NOTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
2) Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.
3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - SOIL

DOC. NO.: LAB-FMT-054	Issue No.: 02	Revision No.: 02
Effective Date: 01.07.2020	Issue Date: 01-01-2015	Revision Date: 01.07.2020



TC-7099

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ENVIRONMENTAL MONITORING REPORT



LABORATORY TEST REPORT - NOISE

REPORT NO.: MAR22/215/25 (ULR- TC709922000007106F)

SAMPLE DETAILS

1	Name & Address of Client: M/s. Adani Cementation Limited CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2	Sample ID: 2251918247 - 215MR22NO01	3	Client Representative: Mr. Abhishek Sood
4	Sample Date: 30.03.2022	5	Sample Collected By: Mr.Vimal
6	Analysis commenced on: 01.04.2022	7	Analysis Completed on: 02.04.2022
8	Reporting Date: 13.04.2022	9	Sampling Location: Project Office
10	Discipline: Chemical	13	Sample Received Date: 02.04.2022
11	Group: Atmospheric Pollution		
12	Product: Ambient Noise Levels		

TEST RESULTS

Time (day)	Reading dB(A) Leq	Time (night)	Reading dB(A) Leq	Method Used
06.00 AM	58.5	22.00 PM	60.5	IS 9989: 1981
07.00 AM	60.2	23.00 PM	59.9	IS 9989: 1981
08.00 AM	61.6	24.00 PM	62.8	IS 9989: 1981
09.00 AM	64.7	01.00 AM	60.8	IS 9989: 1981
10.00 AM	62.9	02.00 AM	60.9	IS 9989: 1981
11.00 AM	63.4	03.00 AM	59.1	IS 9989: 1981
12.00 PM	60.3	04.00 AM	58.6	IS 9989: 1981
13.00 PM	61.4	05.00 AM	58.0	IS 9989: 1981
14.00 PM	60.2	06.00 AM	56.2	IS 9989: 1981
15.00 PM	59.6			IS 9989: 1981
16.00 PM	63.8			IS 9989: 1981
17.00 PM	66.4			IS 9989: 1981
18.00 PM	63.8			IS 9989: 1981
19.00 PM	64.5			IS 9989: 1981
20.00 PM	68.5			IS 9989: 1981
21.00 PM	61.4			IS 9989: 1981
22.00 PM	60.5			IS 9989: 1981
Average	62.4	Average	59.6	
Max.	68.5	Max.	62.8	
Min.	58.5	Min.	56.2	

Remark: GPCB Limits: Day Time - 75 dB(A) (06.00 AM to 10.00 PM) / Night Time - 70 dB(A) (10.00 PM to 06.00 AM)

Authorized By:

Name : Bhavisha Pandya

Designation : Sr.Chemist

NOTE :

- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
- 2) Re analysis of Sample will be done, if requested within 7 days from the date of Reporting of Sample if the Samples are not consumed during analysis.
- 3) The results reported above relate to the Sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - NOISE

DOC. NO.: LAB-FMT-087	Issue No.: 01	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-05-2015	Revision Date: 01.03.2021



TC-7099

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - NOISE

REPORT NO.: MAR22/215/26 (ULR- TC709922000007107F)

SAMPLE DETAILS

1	Name & Address of Client: M/s. Adani Cementation Limited CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2	Sample ID: 2251918247 - 215MR22NO02	3	Client Representative: Mr. Abhishek Sood
4	Sample Date: 30.03.2022	5	Sample Collected By: Mr.Vimal
6	Analysis commenced on: 01.04.2022	7	Analysis Completed on: 02.04.2022
8	Reporting Date: 13.04.2022	9	Sampling Location: Security Main Gate
10	Discipline: Chemical	13	Sample Received Date: 02.04.2022
11	Group: Atmospheric Pollution		
12	Product: Ambient Noise Levels		

TEST RESULTS

Time (day)	Reading dB(A) Leq	Time (night)	Reading dB(A) Leq	Method Used
06.00 AM	50.1	22.00 PM	43.0	IS 9989: 1981
07.00 AM	52.0	23.00 PM	44.0	IS 9989: 1981
08.00 AM	51.9	24.00 PM	46.4	IS 9989: 1981
09.00 AM	52.4	01.00 AM	49.1	IS 9989: 1981
10.00 AM	51.4	02.00 AM	51.2	IS 9989: 1981
11.00 AM	51.9	03.00 AM	52.6	IS 9989: 1981
12.00 PM	52.7	04.00 AM	50.6	IS 9989: 1981
13.00 PM	52.9	05.00 AM	49.9	IS 9989: 1981
14.00 PM	52.4	06.00 AM	47.7	IS 9989: 1981
15.00 PM	50.5			IS 9989: 1981
16.00 PM	48.8			IS 9989: 1981
17.00 PM	48.1			IS 9989: 1981
18.00 PM	48.9			IS 9989: 1981
19.00 PM	46.3			IS 9989: 1981
20.00 PM	45.5			IS 9989: 1981
21.00 PM	44.2			IS 9989: 1981
22.00 PM	46.1			IS 9989: 1981
Average	49.8	Average	48.3	
Max.	52.9	Max.	52.6	
Min.	44.2	Min.	43.0	

Remark: GPCB Limits: Day Time - 75 dB(A) (06.00 AM to 10.00 PM) / Night Time - 70 dB(A) (10.00 PM to 06.00 AM)

Authorized By:

Name : Bhavisha Pandya

Designation : Sr.Chemist

NOTE :

- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
- 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
- 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - NOISE

DOC. NO.: LAB-FMT-087	Issue No.: 01	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-05-2015	Revision Date: 01.03.2021



TC-7099

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - NOISE

REPORT NO.: MAR22/215/27 (ULR- TC709922000007108F)

SAMPLE DETAILS

1	Name & Address of Client: M/s. Adani Cementation Limited CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2	Sample ID: 2251918247-215MR22N003	3	Client Representative: Mr. Abhishek Sood
4	Sample Date: 31.03.2022	5	Sample Collected By: Mr.Vimal
6	Analysis commenced on: 02.04.2022	7	Analysis Completed on: 03.04.2022
8	Reporting Date: 13.04.2022	9	Sampling Location: Store Room
10	Discipline: Chemical	13	Sample Received Date : 03.04.2022
11	Group: Atmospheric Pollution		
12	Product: Ambient Noise Levels		

TEST RESULTS

Time (day)	Reading dB(A) Leq	Time (night)	Reading dB(A) Leq	Method Used
06.00 AM	44.1	22.00 PM	46.1	IS 9989: 1981
07.00 AM	46.0	23.00 PM	49.5	IS 9989: 1981
08.00 AM	66.8	24.00 PM	41.6	IS 9989: 1981
09.00 AM	68.9	01.00 AM	37.4	IS 9989: 1981
10.00 AM	59.0	02.00 AM	36.2	IS 9989: 1981
11.00 AM	60.9	03.00 AM	39.7	IS 9989: 1981
12.00 PM	58.9	04.00 AM	42.4	IS 9989: 1981
13.00 PM	61.7	05.00 AM	44.3	IS 9989: 1981
14.00 PM	58.1	06.00 AM	43.5	IS 9989: 1981
15.00 PM	57.3			IS 9989: 1981
16.00 PM	54.1			IS 9989: 1981
17.00 PM	51.9			IS 9989: 1981
18.00 PM	50.0			IS 9989: 1981
19.00 PM	48.0			IS 9989: 1981
20.00 PM	47.2			IS 9989: 1981
21.00 PM	46.6			IS 9989: 1981
22.00 PM	46.1			IS 9989: 1981
Average	54.5	Average	42.3	
Max.	68.9	Max.	49.5	
Min.	44.1	Min.	36.2	

Remark: GPCB Limits: Day Time - 75 dB(A) (06.00 AM to 10.00 PM) / Night Time - 70 dB(A) (10.00 PM to 06.00 AM)

Authorized By -

Name : Bhavisha Pandya

Designation : Sr.Chemist

NOTE :

- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
- 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
- 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - NOISE

DOC. NO.: LAB-FMT-087	Issue No.: 01	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-05-2015	Revision Date: 01.03.2021



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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - NOISE

REPORT NO.: MAR22/215/28 (ULR- TC709922000007109F)

SAMPLE DETAILS

1	Name & Address of Client: M/s. Adani Cementation Limited CPL-21-22/1, Dahej GIDC, Dahej, Bharuch, Gujarat, 392130.		
2	Sample ID: 2251918247-215MR22N004	3	Client Representative: Mr. Abhishek Sood
4	Sample Date: 31.03.2022	5	Sample Collected By: Mr.Vimal
6	Analysis commenced on: 02.04.2022	7	Analysis Completed on: 03.04.2022
8	Reporting Date: 13.04.2022	9	Sampling Location: Weigh Bridge
10	Discipline: Chemical	13	Sample Received Date : 03.04.2022
11	Group: Atmospheric Pollution		
12	Product: Ambient Noise Levels		

TEST RESULTS

Time (day)	Reading dB(A) Leq	Time (night)	Reading dB(A) Leq	Method Used
06.00 AM	57.4	22.00 PM	55.7	IS 9989: 1981
07.00 AM	58.5	23.00 PM	53.5	IS 9989: 1981
08.00 AM	57.9	24.00 PM	53.5	IS 9989: 1981
09.00 AM	53.9	01.00 AM	53.3	IS 9989: 1981
10.00 AM	56.8	02.00 AM	52.8	IS 9989: 1981
11.00 AM	58.8	03.00 AM	55.1	IS 9989: 1981
12.00 PM	58.0	04.00 AM	56.1	IS 9989: 1981
13.00 PM	57.3	05.00 AM	57.6	IS 9989: 1981
14.00 PM	58.1	06.00 AM	55.9	IS 9989: 1981
15.00 PM	57.5			IS 9989: 1981
16.00 PM	57.8			IS 9989: 1981
17.00 PM	56.2			IS 9989: 1981
18.00 PM	55.8			IS 9989: 1981
19.00 PM	56.3			IS 9989: 1981
20.00 PM	54.2			IS 9989: 1981
21.00 PM	58.1			IS 9989: 1981
22.00 PM	55.7			IS 9989: 1981
Average	57.0	Average	54.8	
Max.	58.8	Max.	57.6	
Min.	53.9	Min.	52.8	

Remark: GPCB Limits: Day Time - 75 dB(A) (06.00 AM to 10.00 PM) / Night Time - 70 dB(A) (10.00 PM to 06.00 AM)

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

NOTE :

- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
- 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
- 3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

TEST REPORT FORMAT - NOISE

DOC. NO.: LAB-FMT-087	Issue No.: 01	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-05-2015	Revision Date: 01.03.2021



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ENVIRONMENTAL MONITORING REPORT

DOC. I. D. : ISO-KEC-AAQM MET. ANA. R.

Rev:00

M/s. Adani Cementation Limited AMBIENT AIR QUALITY MONITORING MICRO-METEOROLOGICAL RESULTS.

Sampling Station :		DAHEJ			
Sampling Date :		28.03.2022			
Reporting Date :		05.05.2022			
Sr.No.	Time in Hr.	Temperature °C	Rel. Humidity	Wind Speed	Wind
		Dry	(%)	km/hr.	Direction
1	10.00	34.80	52.70	18.4	W
2	11.00	36.70	49.60	17.9	SW
3	12.00	37.40	43.20	19.8	SW
4	13.00	38.50	40.80	20.4	SW
5	14.00	38.80	41.60	21.3	SW
6	15.00	37.60	52.40	21.4	SW
7	16.00	36.80	53.80	22.8	SW
8	17.00	35.70	56.20	21.6	W
9	18.00	34.80	57.30	18.6	W
10	19.00	34.60	58.80	17.3	SW
11	20.00	34.20	69.30	19.2	SW
12	21.00	33.90	59.20	18.5	S
13	22.00	33.20	61.60	17.6	S
14	23.00	31.60	56.80	13.8	S
15	24.00	28.60	54.70	7.8	SW
16	1.00	28.40	58.80	9.7	SW
17	2.00	27.80	58.70	11.4	W
18	3.00	27.60	60.20	10.2	W
19	4.00	27.20	60.80	12.3	W
20	5.00	26.80	61.60	11.5	SW
21	6.00	26.50	66.40	11.8	SW
22	7.00	29.40	65.20	12.8	SW
23	8.00	31.60	58.20	15.4	SW
24	9.00	33.20	52.70	16.2	W
24 hrs.	Max.	38.80	69.30	22.80	SW
24 hrs.	Min.	26.50	40.80	7.80	
24 hrs.	Avg.	32.74	56.28	16.15	
For Kadam Environmental Consultants					
Approved By -					



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ENVIRONMENTAL MONITORING REPORT

DOC. I. D. : ISO-KEC-AAQM MET. ANA. R.

Rev:00

M/s. Adani Cementation Limited AMBIENT AIR QUALITY MONITORING MICRO-METEOROLOGICAL RESULTS.

Sampling Station :		DAHEJ			
Sampling Date :		29.03.2022			
Reporting Date :		05.05.2022			
Sr.No.	Time in Hr.	Temperature °C	Rel. Humidity	Wind Speed	Wind
		Dry	(%)	km/hr.	Direction
1	10.00	35.60	35.80	15.4	SW
2	11.00	36.80	34.60	17.2	SW
3	12.00	38.20	37.60	18.3	SW
4	13.00	38.40	36.80	18.1	W
5	14.00	37.60	41.30	17.6	SW
6	15.00	36.80	44.80	16.4	SW
7	16.00	35.40	52.70	15.8	SW
8	17.00	34.20	50.60	15.4	W
9	18.00	33.80	58.60	15.4	SW
10	19.00	32.40	51.40	17.3	W
11	20.00	31.60	60.20	17.6	W
12	21.00	30.50	61.20	13.2	W
13	22.00	29.80	61.50	14.2	W
14	23.00	28.80	63.20	18.8	W
15	24.00	28.20	57.40	5.4	NW
16	1.00	28.40	56.70	6.2	NW
17	2.00	27.80	59.50	4.8	NW
18	3.00	27.60	53.30	3.2	NW
19	4.00	27.40	56.90	5.8	W
20	5.00	26.80	54.70	4.7	W
21	6.00	26.40	45.30	4.8	W
22	7.00	28.20	28.70	7.6	W
23	8.00	30.50	30.70	11.4	SW
24	9.00	33.20	38.40	11.5	SW
24 hrs.	Max.	38.40	63.20	18.80	SW
24 hrs.	Min.	26.40	28.70	3.20	
24 hrs.	Avg.	31.85	48.83	12.34	
For Kadam Environmental Consultants					
Approved By -					



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DOC. I. D. : ISO-KEC-AAQM MET. ANA. R.

Rev:00

M/s. Adani Cementation Limited AMBIENT AIR QUALITY MONITORING MICRO-METEOROLOGICAL RESULTS.

Sampling Station :		DAHEJ			
Sampling Date :		30.03.2022			
Reporting Date :		05.05.2022			
Sr.No.	Time in Hr.	Temperature °C	Rel. Humidity	Wind Speed	Wind
		Dry	(%)	km/hr.	Direction
1	10.00	34.80	48.80	10.5	SW
2	11.00	36.60	45.60	12.7	SW
3	12.00	37.50	43.80	15.4	SW
4	13.00	37.80	43.50	16.4	WSW
5	14.00	37.20	42.60	15.8	W
6	15.00	37.00	41.80	15.2	W
7	16.00	36.50	54.80	17.6	W
8	17.00	34.30	56.20	18.2	SW
9	18.00	33.80	57.40	18.8	SW
10	19.00	32.10	58.80	19.8	W
11	20.00	31.60	58.20	17.6	NW
12	21.00	28.30	60.20	16.8	NW
13	22.00	27.60	54.60	15.4	W
14	23.00	27.20	59.30	13.6	NW
15	24.00	27.40	62.40	8.2	NW
16	1.00	27.20	65.70	9.8	W
17	2.00	27.20	66.70	5.7	NW
18	3.00	27.20	68.40	4.4	NW
19	4.00	26.80	68.20	5.2	WW
20	5.00	26.50	67.60	6.8	NW
21	6.00	26.50	63.20	6.2	NW
22	7.00	27.60	58.40	9.8	SW
23	8.00	30.20	57.60	9.2	W
24	9.00	32.40	51.40	8.4	W
24 hrs.	Max.	37.80	68.40	19.80	SW
24 hrs.	Min.	26.50	41.80	4.40	
24 hrs.	Avg.	31.30	56.47	12.40	
For Kadam Environmental Consultants					
Approved By -					



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ENVIRONMENTAL MONITORING REPORT

DOC. I. D. : ISO-KEC-AAQM MET. ANA. R.	Rev:00
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M/s. Adani Cementation Limited AMBIENT AIR QUALITY MONITORING MICRO-METEOROLOGICAL RESULTS.

Sampling Station :		DAHEJ			
Sampling Date :		31.03.2022			
Reporting Date :		05.05.2022			
Sr.No.	Time in Hr.	Temperature °C	Rel. Humidity	Wind Speed	Wind
		Dry	(%)	km/hr.	Direction
1	10.00	32.80	53.50	11.8	W
2	11.00	34.50	54.60	12.8	SW
3	12.00	35.60	55.80	12.4	SW
4	13.00	36.80	56.20	15.4	SW
5	14.00	37.40	58.30	17.6	SW
6	15.00	36.80	58.20	18.4	SW
7	16.00	35.50	57.80	18.1	W
8	17.00	35.20	59.20	18.2	SW
9	18.00	34.50	58.80	17.5	SW
10	19.00	33.20	57.60	17.1	W
11	20.00	31.80	55.40	15.3	W
12	21.00	30.00	56.80	15.2	SW
13	22.00	29.90	57.60	16.2	NW
14	23.00	27.80	53.20	13.7	NW
15	24.00	26.00	60.20	12.4	NW
16	1.00	25.80	64.30	12.1	W
17	2.00	25.40	66.60	8.5	W
18	3.00	25.30	64.20	9.7	W
19	4.00	25.10	65.40	10.5	W
20	5.00	23.00	61.30	11.2	SW
21	6.00	25.00	62.40	12.2	SW
22	7.00	20.80	57.60	10.5	WSW
23	8.00	28.40	56.30	11.8	W
24	9.00	30.20	54.20	12.8	SW
24 hrs.	Max.	37.40	66.60	18.40	SW
24 hrs.	Min.	20.80	53.20	8.50	
24 hrs.	Avg.	30.28	58.56	13.81	
For Kadam Environmental Consultants					
Approved By -					