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# adani

Ports and  
Logistics

AHPL/GPCB/2023-24/08

Date: 27.09.2024  
GPCB ID: 35352

To  
The Member Secretary,  
Gujarat Pollution Control Board,  
Paryavaran Bhavan, Sector-10A,  
Gandhinagar-382 010 (Gujarat)



Dear Sir,

**Sub.:** Environmental Statement in Form-V for the financial year 2020-21 of **M/s. Adani Hazira Port Ltd.**

**Ref.:** I. Consolidated consent and authorization (CC&A) vide consent order no. AWH-87176 dated 17.07.2017 and its subsequent amendments AW-104319, Ref. No.: GPCB/CCA-SRT-1314(8)/ID\_35352/528583 dated 02.12.2019 and CCA order No: H- I 11966, Dated-16/04/2021.  
II. Consolidated consent and authorization (CC&A) vide consent order no. AWH-118804 dated 18.05.2022

With reference to above subject matter, please find enclosed herewith **Environmental Statement - Form-V** prescribed under Rule, 14 of the Environment (Protection) Rules, 1986 of **M/s. Adani Hazira Port Ltd.**, At & PO: Hazira, Taluka: Choryashi, District: Surat (Gujarat) for the financial year ending 31<sup>st</sup> March'2024 (FY 2023-24).

This is for your kind reference and record please.

Thanking You,  
For **Adani Hazira Port Ltd.**

**Authorized Signatory**

**Encl.:** - Environmental Statement in Form-V for the Financial Year: 2023-24

**Cc to:** - The Regional Officer, Gujarat Pollution Control Board, 338, Plot No: 11 - 12/2, 3 GIDC Pandesara, Surat-394221 Gujarat

Adani Hazira Port Ltd  
At & PO Hazira  
Choryashi  
Surat 394 270  
Gujarat, India  
CIN: U45209GJ2009PTC058789

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www.adaniports.com



Ports and  
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AHPL/GPCB/2023-24/08

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CIN: U45209GJ2009PTC058789

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**Environment Statement In (Form-V) For The FY: 2023-24 Of**  
**M/s. Adani Hazira Port Ltd.**

**FORM - V**  
(See Rule 14)

**Environmental Statement for the Financial Year ending 31<sup>st</sup> March, 2024**  
**PART - A**

(i)	Name and address of the Owner/ Occupier of the Industry Operation or Process	:	<b>Niraj Bansal,</b> <b>Chief Executive Officer,</b> M/s. Adani Hazira Port Ltd., At & Post: Hazira, Taluka: Choryashi, District: Surat (Gujarat)
(ii)	Industry Category Primary (STC Code) Secondary (STC Code)	:	<b>Red - Large</b> Not Applicable Not Applicable
(iii)	Production Capacity	:	57.7 MMTPA (Total Cargo Handling Capacity)
(iv)	Year of Establishment	:	2010
(v)	Date of Last Environment Statement Submitted	:	28 <sup>th</sup> June 2023

**PART - B**

**Water and Raw Material Consumption**

**(i) Water Consumption:**

<b>Water Consumption Cu. Mtr./Day</b>	
Process	Approx. 2011.55 m <sup>3</sup> /day in Firefighting, Dust Suppression, Sprinkling Washing Activities, and horticulture etc.
Cooling	
Domestic	Approx. 150.90 m <sup>3</sup> /day in Domestic Purpose

<b>Name of Products</b>	<b>Process Water Consumption Per Unit of Product Output</b>	
	<b>During the Previous Financial Year</b>	<b>During the Current Financial Year</b>
Handling and Storage of General Dry Cargo, Liquid Cargo and Containers*	Total Water Consumption during the FY 2022-23 is 739506.78 m <sup>3</sup> in the dust suppression, Fire Fighting, cooling, Liquid Terminal Washing cleaning activities, Horticulture and Domestic purposes etc.	Total Water Consumption during the FY 2023-24 is <b>734217.24 m<sup>3</sup></b> in the dust suppression, Fire Fighting, cooling, Liquid Terminal Washing cleaning activities, Horticulture and Domestic purposes etc.

**Environment Statement In (Form-V) For The FY: 2023-24 Of**  
**M/s. Adani Hazira Port Ltd.**

	The water consumption per unit of Cargo handling is 0.0292 m <sup>3</sup> /MT	The water consumption per unit of Cargo handling is 0.0278 m <sup>3</sup> /MT
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\* The Unit does not carry out any manufacturing process. The water consumed was mainly in Firefighting, Dust Suppression, Water Sprinkling, Washing Activities and Horticulture & Domestic Purpose etc.

**(ii) Raw Material Consumption:**

Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
		During the previous Financial Year	During the current Financial Year
Not Applicable	Not Applicable	Not Applicable	Not Applicable

\* Unit does not carry out any manufacturing process.

**PART - C**

**Pollutants discharged to Environment/Unit of Output**  
**(Parameters as specified in consent issued)**

Pollutants	Quantity of pollutants discharged (Mass/day)	Concentrations of pollutants in discharges (Mass/Volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Nil*		
(b) Air	<ul style="list-style-type: none"> <li>• DG sets are provided as standby power source and used during power failure.</li> <li>• The height of DG stacks as per CPCB/GPCB standards. All the monitored parameters are found within prescribed limits.</li> </ul>		
Particulate Matter (mg/Nm <sup>3</sup> )	DG set emission report is enclosed as <b>Annexure-1.</b>		Nil
Sulphur Dioxide (ppm)			Nil
Nitrogen Oxide (ppm)			Nil

\* The Unit does not carry out any manufacturing process, as it is a service industry i.e. Port engaged in Handling and Storage of General Dry Cargo, Liquid Cargo and Containers. The source of effluent/ wastewater generation is washing activities of liquid tanks, pipelines and floor washing during any spillage and/or leakage of liquid cargo and other domestic activities. During the Financial Year: 2023-24. There is no

**Environment Statement In (Form-V) For The FY: 2023-24 Of**  
**M/s. Adani Hazira Port Ltd.**

discharge of treated effluent / water discharged to the environment. All the treated Effluents and Sewage are utilized in horticulture purpose.

There was approx. **70.32 KL/Day** Sewage Generation. The sewage was treated in the Sewage Treatment Plants (STP's) and treated water conforming to prescribe standards was reused in gardening and plantation activities. There was approx. **56.40 KL/Day** of Effluents generation, and all the generated effluents were treated in Effluents Treatment Plant and utilized in Horticulture Purpose.

**PART - D**

**Hazardous Wastes**

**(as specified under Hazardous waste (Management and Handling) Rules, 2016**

Hazardous Wastes	Total Quantity (Kg.)	
	During the Previous Financial Year	During the Current Financial Year
a) From Process	Quantity of Hazardous Waste generated is given below: Cat.-3.2:134640 Kg. of cargo residue containing chemicals. Cat.-3.3: 375Kg. of Used Oil Filters. Cat 3.4: 4200 Kg of Bilge water Containing oils Cat-33.11: 12750 Kg of contaminated empty barrel Cat 33.2: 4000 Kg of oily Cotton rags Cat.-5.1: 162370 Kg. of Used/Spent Oil. Cat.-5.2: 112760 Kg. of Oil Contaminated Foam Pigs.	Quantity of Hazardous Waste generated is given below: Cat.-3.2:153520 Kg. of cargo residue containing chemicals. Cat 3.4: 4200 Kg of Bilge water Containing oils Cat-33.11: 2640 Kg of contaminated empty barrel Cat 33.2: 3520 Kg of oily Cotton rags Cat.-5.1: 13140 Kg. of Used/Spent Oil. Cat.-5.2: 24600Kg. of Oil Contaminated Foam Pigs.
b) From Pollution Control facilities	Nil	Nil

**PART - E**

**Solid Waste**

Solid Waste	Total Quantity (MT/Annum)
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**Environment Statement In (Form-V) For The FY: 2023-24 Of**  
**M/s. Adani Hazira Port Ltd.**

	<b>During the Previous Financial Year</b>	<b>During the Current Financial Year</b>
(a) From Process (Ash)		
(b) From Pollution Control facilities		
(C-1) Quantity recycled or reutilized within the unit	5.560 MT (Kitchen & Food Waste was Converted in to Manure through Organic Waste Converter)	7.668 MT (Kitchen & Food Waste was Converted in to Manure through Organic Waste Converter)
(C-2) Sold		
(C-3) Disposed	Approx. 211.680 MT (Garbage Wastes) processed through Solid Waste Management Agency	Approx. 240.360 MT (Garbage Wastes) processed through Solid Waste Management Agency.

**Note:** Scrap is collected in designated scrap yard at Central Store and sold to scrap vendor.

**PART - F**

**Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:**

- Total quant hazardous waste disposed off during the financial year 2023-24 is 197.420 MT. Out of which 86.330 MT of Recyclable hazardous waste was disposed off through GPCB authorized Solvent Recycling Facility. Approx. 67.19 MT of Incinerable hazardous waste are sent to GPCB authorized Common Hazardous Waste Incineration Facility i.e. Saurashtra Enviro Projects Pvt Ltd, Kutch.
- Approx. 22.740 MT Used/Spent Oil/Bilge Water were generated (including opening were sold out to GPCB registered recycler/refiner at M/s Jawrawala Petroleum., Ahmedabad and M/s Bombay Barrel, Ahmedabad. The Waste Oils were stored in barrels in hazardous waste storage shed.
- Approx. 2.640 MT - Empty Paint Drums/Tins were sold out to GPCB registered recycler at M/s Jawrawala Petroleum.
- Oily Cotton rags were generated from various maintenance and operational activities, which were kept in covered hazardous waste storage area. 3.520 MT of oily cotton rags Wastes were disposed off through GPCB authorized Preprocessing Facility ECO Waste Management, Himmat Nagar and 2.84 of Waste Residue containing oils were sent to GPCB authorized Preprocessing facility Eco Waste Management, GIDC Palej,

**Environment Statement In (Form-V) For The FY: 2023-24 Of**  
**M/s. Adani Hazira Port Ltd.**

12.16 MT of Oil contaminated Foam pigs was disposed off through GPCB authorized Coprocessing facility Ambuja Cements Limited, Ambujanagar, Kodinar,

**PART - G**

**Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production: -**

- Unit has installed Sewage Treatment Plants of 225 KLD capacity and Effluent Treatment Plant (ETP) of 50 KLD Capacity for treatment of the Sewage water and Effluent being generated at site. The treated water is being reused within port premises. In view of expansion of the port, a higher capacity of ETP i.e. 450 KLD is under commissioning stage.
- Unit has installed **Organic Waste Converter (OWC)** to convert the organic wastes into organic manure i.e.: Kitchen/Food Waste and Horticultural Waste being generated at site. The manure is being reused within port premises.
- M/s. AHPL has developed mangrove afforestation on an area 200 hectares i.e.: 20 hectares near Village: Kantiyajal, Sea coast area and 180 hectares near Village: Nada-Devla, District: Bharuch (Gujarat).
- M/s. AHPL has developed a Bio-Shield Pilot Project on an area of 18 hectares at near Village: Tankari Bandar, Taluka: Jambusar, District: Bharuch (Gujarat).
- The Unit has been using recycled water i.e. treated sewage of KRIBHCO for industrial use which caters more than 85% of total water consumption.
- The Unit has installed Photo voltaic Solar Panel of 3.6 MW and reduced its grid Power consumption and 2 MW of Windmills at Rojmal near Rajkot for renewable energy generation.
- During the financial year: 2023-24, the total cost incurred on environmental protection measures is enclosed as **Annexure-2**.

**PART - H**

**Additional measures /investment/ proposal for environmental protection including abatement of pollution, prevention of pollution.**



**Environment Statement In (Form-V) For The FY: 2023-24 Of**  
**M/s. Adani Hazira Port Ltd.**

- Unit is carrying out regular environmental monitoring within the Port and surrounding area through reputed MoEF&CC and NABL accredited laboratory. All the environmental parameters are found well within specified limits and the details of monitored data is regularly submitting to GPCB, CPCB, MoEF&CC and other concerned authorities.
- Unit has installed STP's and ETP for the treatment of the domestic wastewater and effluent being generated at site and the treated water is being used for horticulture (plantation & gardening) purpose. Unit has also provided dump pond and conveyance channel for collection of runoff generated from Coal Yard.
- Unit is planning to augment the capacity of ETP and 450 KLD of ETP is being installed having UASB, MBBR, Sand & Carbon Filter, Ultrafiltration and Reverse Osmosis facility.
- Unit has provided sprinklers at coal yard & conveyer system and carrying out regular water spreading to control the dust exposure. Wind breaking wall is provided around the periphery of Coal Yard.
- Unit has a dedicated horticulture department & developing green belt within port premises.
- Unit uses mist canon to suppress the fugitive coal dust at coal yard.
- Unit has deployed four road sweeping machines to control the fugitive dust emissions.
- Unit has installed wind break shield around coal yard and Rock Phosphate Yard to suppress dust emission.
- Unit has installed organic Waste Convertor for composting Food waste and other organic wastes.
- Unit has laid 1.7 km of closed conveyor system having dust suppression system for handling of coal from Jetty to coal yard.
- Unit has laid approx. 18 km of underground of pipeline for receiving treated waste water from KRIBHCO and all the industrial requirement of water is being fulfilled through the recycled water.
- Unit has developed greenbelt area of 60.94 hectare till March 2024.

**Environment Statement In (Form-V) For The FY: 2023-24 Of**  
**M/s. Adani Hazira Port Ltd.**

**PART - I**

**Any other particulars for improving the quality of environment:**

- Environmental awareness programs have been conducted during the year for employees, contractual employees, school children and local community of nearby villages.
- Integrated housekeeping management is undertaken on top priority to maintain neat and clean working environment in the port premises.
- World Environment Day, International Biodiversity Day and other important environment related days are being celebrated to raise awareness among employees, associates and contractor's workmen, The participants of these days were motivated by providing prizes and certificates.
- The Port has initiated "Single Use Plastic Free Port" initiative and Confederation of Indian Industry has been engaged for certifying the protocol and implementation of the same.
- The Port is ISO 14001:2015 certified for Environment Management System, ISO 19001:2015 for Quality Management System, ISO 45001: 2018 for Occupational Health and Safety Management System and ISO 50001: 2018 for Energy Management System.
- 200 ha of Mangrove plantation and 18 ha of Bio shield development carried out in Jambusar district and these are being maintained and monitored through NGO and SHG.

Date: 27.09.2024

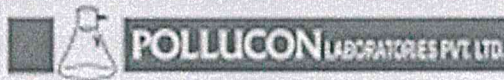


**(Authorized Signatory)**

**ANNEXURE-1**

**DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -**

# Environment Statement In (Form-V) For The FY: 2023-24 Of M/s. Adani Hazira Port Ltd.



**TABLE-1.25D: DG SETS STACK EMISSION MONITORING RESULTS**

SR. NO.	PARAMETERS	UNIT	LT PHASE - 2 (750 KVA)		ER - 1 (100 KVA)	
			21/11/2023	20/02/2024	21/11/2023	20/02/2024
1	Particulate Matter	mg/Nm <sup>3</sup>	41.33	38.65	26.05	26.43
2	Sulphur Dioxide	ppm	7.92	8.24	7.45	6.67
3	Oxide of Nitrogen	ppm	36.46	34.57	32.21	36.23
4	Carbon Monoxide (CO)	mg/m <sup>3</sup>	21.60	21.60	14.89	18.32
5	Non-Methyl Hydro Carbon (NMHC)	mg/m <sup>3</sup>	Not Detected	Not Detected	Not Detected	Not Detected

**TABLE-1.25E: DG SETS STACK EMISSION MONITORING RESULTS**

SR. NO.	PARAMETERS	UNIT	NOG BUILDING (300 KVA)		CUSTOM BUILDING (320 KVA)	
			21/11/2023	20/02/2024	21/11/2023	19/02/2024
1	Particulate Matter	mg/Nm <sup>3</sup>	34.61	32.64	35.51	33.42
2	Sulphur Dioxide	ppm	4.24	3.14	5.27	4.14
3	Oxide of Nitrogen	ppm	32.38	35.47	35.52	33.64
4	Carbon Monoxide (CO)	mg/m <sup>3</sup>	21.76	22.9	14.89	13.74
5	Non-Methyl Hydro Carbon (NMHC)	mg/m <sup>3</sup>	Not Detected	Not Detected	Not Detected	Not Detected

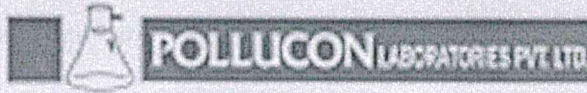
  
**Authorized Signatory**

• ISO 9001:2015 Approved Lab • Registered by MoEF, New Delhi Under Reg. No. 12 of Environmental Protection Act-1986 • CPCB approved as per G.O. dt. 12/01/2018  
 • ISO 14001:2015 • ISO 45001:2018 • ISO 9001:2015

"Pollucon House", Plot No. S/6, Opp. Balaji Industrial Society, Old Shankarji Sik M.R Lane, Near Gaytri Farsan Mart,  
 Navjivan Circle, Udhana Magdaha Road, Saral-385007, Gujarat, India.  
 Phone : 0291-2620758, 0291-2633751, 0291-2633775, 07016695174, WEB: www.polluconlab.com, E-mail: pollucon@pollucon.com, info@polluconlab.com


**Note:** DG sets are provided as standby power source and used during power failure.

**Environment Statement In (Form-V) For The FY: 2023-24 Of  
M/s. Adani Hazira Port Ltd.**



**TABLE-1.26: DG SETS NOISE LEVEL MONITORING RESULTS**

SR. NO.	DG SET AVERAGE NOISE LEVEL IN LEQ. DB(A)		
	SAMPLING LOCATION	AT 1 M DISTANCE FROM THE ENCLOSURE	
	Sampling Date	20 & 21/11/2023	19 & 20/02/2024
1.	DG SET TOYO DENKI - 1	72.4	70.5
2.	DG SET TOYO DENKI - 2	68.1	66.3
3.	DG SET TOYO DENKI -3	70.5	72.2
4.	SS-1 LT DG -320 KVA	67.3	69.8
5.	SS3 -DG -200 KVA	68.9	65.3
6.	LT PHASE -1 (825 KVA)	67.4	61.2
7.	LT PHASE -2 (750 KVA)	71.1	68.3
8.	BR-1 (100 KVA)	68.2	66.6
9.	NOG BUILDING (380 KVA)	64.3	62.7
10.	CUSTOM BUILDING (320 KVA)	69.0	64.2

  
Authorized Signatory

• ISO 9001:2015 Certified by NABL New Delhi Under ISO 9001:2015  
 • ISO 14001:2015 Certified by NABL New Delhi Under ISO 14001:2015  
 • ISO 45001:2018 Certified by NABL New Delhi Under ISO 45001:2018  
 • ISO 9001:2015 Certified by NABL New Delhi Under ISO 9001:2015  
 • ISO 14001:2015 Certified by NABL New Delhi Under ISO 14001:2015  
 • ISO 45001:2018 Certified by NABL New Delhi Under ISO 45001:2018

"Pollucon House", Plot No.54, Opp.Balaji Industrial Society, Old Shantinath 52x M.E Lane, Near Gaytri Farkan Mart,  
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**Environment Statement In (Form-V) For The FY: 2023-24 Of**  
**M/s. Adani Hazira Port Ltd.**

**ANNEXURE - II**

**Details of Environment Management Budget For The Financial Year 2023-24: -**

**Environment Budget & Expenditure of FY 2023-24**

Sr No	Activities	Budget for FY 2023-24	Expenditure
		(In Lacs INR)	(In Lacs INR)
1	Legal and Statutory Charges/Newspaper advertisement	10	0.0705
2	Environmental Monitoring Services	17.04	14.54
3	Hazardous Waste Management	33.2	15.128
4	Horticulture Development –Greenery and Plantation	149	158.5
5	STP and ETP Repair Maintenance / Equipment/Consumables	10	8.98
6	Manpower Sewage Treatment Plant and Effluent Treatment Plant	18	18.06
7	Disposal of Bio medical Waste	1.8	1.8
8	Water Sprinkling for dust suppression	198	184.556
9	Miscellaneous Environmental Initiatives and Salary of Environmental Professionals	20	19.5
10	ISO 14001:2015 (EMS) audit, certification, and internal audit training	3	2.5
	<b>Total</b>	<b>460.04</b>	<b>423.63</b>

**Expenditure of last three Years**

Year	Budget (In Lacs INR)	Expenditure (In Lacs INR)
2020-21	479.63	418.11
2021-22	571.80	443.70
2022-23	550.04	471.69