adani

Ports and Logistics

AHPPL/GPCB/2020-21/04

Date: 29.05.2020 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 2019-2020 of M/s. Adani Hazira Port Pvt. Ltd.

Ref.:

I. Consolidated consent and authorization (CC&A) vide consent order no. AWH-87176 dated 17.07.2017

II. Amended CC&A granted vide Order No.: AW-104319, Ref. No.: GPCB/CCA-SRT-1314(8)/ID_35352/528583 dated 02.12.2019.

With reference to the above subject and reference, please find enclosed herewith Environmental Statement in Form-V prescribed under Rule, 14 of the Environment (Protection) Rules, 1986 for M/s. Adani Hazira Port Pvt. Ltd., At & PO: Hazira, Taluka: Choryashi, District: Surat (Gujarat) for the financial year ending 31st March'2020.

This is for your kind reference and record please.

Thanking You,

Yours faithfully,

For Adani Hazira Port Pvt. Ltd.,

(Pranav Choudhary)
Authorised Signatory

Encl.: - Environmental Statement in Form-V for the Financial Year: 2019-20.

Cc to: - The Regional Officer, Gujarat Pollution Control Board, 338, Belgium Square, Opp. Linear Bus Stand, Ring Road, Surat-364 002 (Gujarat)

Adani Hazira Port Pvt Ltd At & PO Hazira Choryashi Surat 394 270 Gujarat, India CIN: U45209GJ2009PTC058789 Tel +91 261 220 7780 Fax +91 261 220 7777 info@adani.com www.adani.com



FORM - V (See Rule 14)

Environmental Statement for the Financial Year ending 31st March, 2020

PART - A

(i)	Name and address of the Owner/ Occupier of the Industry Operation or Process	•	Pranav Choudhary, Chief Executive Officer, M/s. Adani Hazira Port Pvt. Ltd., At & Post: Hazira, Taluka: Choryashi, District: Surat (Gujarat)
(ii)	Industry Category Primary (STC Code) Secondary (STC Code)	:	Red - Large 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	:	15 th July, 2019

<u>PART - B</u> <u>Water and Raw Material Consumption</u>

(i) Water Consumption:

Water Consumption Cu. Mtr./Day					
Process	Approx. 1114.97 m³/day in Firefighting, Dust				
Cooling	Suppression, Sprinkling and Washing Activities etc.				
Domestic	Approx. 509.74 m³/day in Horticulture & Domestic Purpose				

Name of		Process Water Consumption Per Unit Of Product Output							
Products		During the Previous Financial Year	During the Current Financial Year						
Handling Storage General Cargo, Cargo	and of Dry Liquid and	Total Water Consumption during the FY: 2018-19 is 669819 m ³ in the Dust Suppression, Fire Fighting, Cooling, LT - Washing	Suppression, Fire Fighting, Cooling, LT - Washing						
Container	rs*	Activities, Horticulture and Domestic purpose etc. Water	Activities, Horticulture and						

consumption is 0.0346 M ³ /MT	Domestic purpose etc.
	Water consumption is 0.025
	m ³ .

^{*} 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:

		Consumption of Raw Material per Unit of output				
Name of Raw Material	Name of Products	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	 DG sets are provided as standby power source and used during power failure. The height of DG stacks as per CPCB/GPCB standards. All the monitored parameters are found within prescribed limits. 					
Particulate Matter (mg/Nm³)	DG set emission report is enclosed		NiI			
Sulphur Dioxide (ppm)	1	as Annexure-1. Nil				
Nitrogen Oxide (ppm)			Nil			

* The Unit does not carry out any manufacturing process, as it is service industry (Port) engaged in Handling and Storage of General Dry Cargo, Liquid Cargo and Containers. The source of effluent/ waste water generation is washing activities of liquid tanks, pipelines and floor washing during any spillage and/or leakage of liquid cargo. During the Financial Year: 2019-20 there is no any treated effluent / water discharged to the environment.

There was approx. 70 KL/Day Sewage Generation. The sewage was treated in the Sewage Treatment Plants (STP's) and treated water confirming to prescribe standards was reused in gardening and plantation activities.

PART - D

<u>Hazardous Wastes</u> (as specified under Hazardous waste (Management and Handling) Rules, 1989

	Total Quant	ity (Kg. or KL)			
Hazardous Wastes	During the Previous Financial Year	During the Current Financial Year			
a) From Process	Quantity of Hazardous Waste generated is given below:	generated is given below:			
	Cat3.3: Approx. 1010 Kg. of Used Oil Filters.	Cat3.3: Approx. 1100 Kg. of Used Oil Filters.			
	Cat5.1: Approx. 41890 Kg. of Used/Spent	Cat5.1: Approx. 59670 Kg. of Used/Spent Oil/Bilge.			
2.1	Oil/Bilge.	Cat5.2: Approx. 78100 Kg. of			
	Cat5.2: Approx. 63830 Kg. of Oily	l — — — — — 1			
	Contaminated Cotton & Foam Pigs.	Cat21.1: Approx. 5967 Kg. of Empty Paint Drums/			
	Cat21.1: Approx. 2350 Kg. of	Tins.			
	Empty Paint Drums/ Tins.	Cat3.2: Approx. 60600 Kg. of cargo residue			
	Cat33.1: Approx. 560 Kg. of				
	Empty Barrels.	chemicals.			
b) From Pollution Control facilities	Nil	Nil			

PART - E Solid Waste

		Total Quantity (MT/Annum)				
Solid Waste		During the Previous Financial Year	During the Current Financial Year			
(a)	From Process (Ash)	Nil				

(b) From Pollution Control facilities	Nil	
(C-1) Quantity recycled or reutilized within the unit	3.5 MT (Kitchen & Food Waste Convert in to Manure in OWC)	10.314 MT (Kitchen & Food Waste Convert in to Manure in OWC)
(C-2) Sold		
(C-3) Disposed	Approx. 118.815 MT (Garbage Wastes)	Approx. 143.07 MT (Garbage Wastes)

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 hazardous waste disposed off during the financial year: 2019-20 is approx. 213.44 MT. Out of which approx. 12.88 MT of hazardous waste disposed off at GPCB registered Co-processor at Green Gene Enviro Protection and Infrastructure Limited Chhitorgadh, Rajasthan. 134.03 MT of Incinerable hazardous waste disposed off through GPCB authorized CHWIF M/s Saurashtra Enviro Projects Pvt Ltd Kutch. Approx. 66.53 MT of recyclable hazardous waste are sent to GPCB registered recyclers.
- Approx. 59.61 MT Used/Spent Oil/Bilge Water were generated (including opening were sold out to GPCB registered recycler/refiner at M/s. Unity Petroleum Co., Ahmedabad. The Waste Oils were stored in barrels in hazardous waste storage shed.
- Approx.6.92 MT Empty Paint Drums/Tins were sold out to GPCB registered recycler/refiner at M/s. Jawrawala Petroleum, Ahmedabad.
- Oil contaminated Foam Pig Wastes were generated from various maintenance and operation activities, which were kept in covered hazardous waste storage area. 65.22 MT of Foam Pig Wastes were disposed off through GPCB authorized CHWIF Saurashtra Enviro Projects Pvt Ltd Kutch and 12.88 MT of Oil contaminated Foam pigs was disposed off through CPCB authorized Co-processing/Pre-processing agency M/s Green Gene Enviro Protection Ltd, Chittorgadh (Rajsthan).
- Used Oil filters of 1.10 MT was disposed off through GPCB authorized CHWIF Saurashtra Enviro Projects Pvt Ltd Kutch

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 Cargo residue containing chemicals of 60.60 MT was disposed off through GPCB authorized CHWIF Saurashtra Enviro Projects Pvt Ltd Kutch

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 and Effluent Treatment Plant (ETP) for treatment of the Sewage water and Effluent being generated at site. The treated water is being reused within port premises.
- 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. AHPPL 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. AHPPL 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 used recycled water i.e. treated sewage of KRIBHCO for industrial used which caters more than 85% of total water consumption.
- The Unit has installed Photo voltaic Solar Panel of 3.5 MW and reduced its grid Power consumption.
- During the financial year: 2019-20, the total cost incurred on environmental protection measures is enclosed as <u>Annexure-2</u>.

PART - H

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

 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 waste water 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 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 developed greenbelt area of 74.30 hectare till March, 2020.

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.
- 74.30 ha of Greenbelt is being developed within the port premises.

Date: 25.05.2020

(Authorised Signatory)

Name:

Pranav Choudhary

Designation: Chief Executive Officer (CEO)

Address:

At & Post: Hazira, Taluka: Choryashi,

District: Surat (Gujarat)

DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -



4G. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -

Table-1.22: DG Sets Stack Monitoring Results for the period: April, 2019 to Sept, 2019

Table-1.22 (a): DG Sets Stack Monitoring Results:

Sr.	Parameters	Unit	DG SET TOYO DENKI -1		DG SET TOYO DENKI -2		DG SET TOYO DENKI -3	
No.			MAY-19	AUG-19	MAY-19	AUG-19	MAY-19	AUG-19
1	Particulate Matter	mg/Nm³	23.84	19.84	19.57	15.42	21.46	24.58
2	Sulphur Dioxide	ppm	7.77	6.54	6.49	8.49	5.47	9.28
3	Oxide of Nitrogen	ppm	33.84	30.38	29.58	36.44	31.57	33.62
4	Carbon Monoxide (CO)	mg/m³	8.38	12.49	6.54	11.45	9.59	15.08
5	Non Methyl Hydro Carbon (NMHC)	mg/m³	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*

Table-1.22 (b): DG Sets Stack Monitoring Results:

Sr.	Parameters	Unit	SS-1 LT DG -320 KVA		553 -DG -200 KVA		LT Phase -1 (625 KVA)	
No.			MAY-19	AUG-19	MAY-19	AUG-19	MAY-19	AUG-19
1	Particulate Matter	mg/Nm³	20.61	16.41	22.39	25.68	28.6	24.36
2	Sulphur Dioxide	ppm	3.55	4.42	5.7	6.38	3.42	5.25
3	Oxide of Nitrogen	ppm	32.84	35.62	30.41	28.59	32.37	36.81
4	Carbon Monoxide (CO)	mg/m³	5.73	9.16	9.16	3.44	4.58	5.73
5	Non Methyl Hydro Carbon (NMHC)	mg/m³	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*

Table-1.22 (c): DG Sets Stack Monitoring Results:

Sr.	Parameters	Unit	LT Phase -2	(750 KVA)	ER-1 (100 KVA)		
No.			MAY-19	AUG-19	MAY-19	AUG-19	
1	Particulate Matter	mg/Nm³ •	18.3	19.83	24.29	21.58	
2	Sulphur Dioxide	ppm	7.29	4.44	4.58	2.85	
3	Oxide of Nitrogen	ppm	38.4	34.46	35.39	29.33	
4	Carbon Monoxide (CO)	mg/m³	11.45	10.31	10.31	6.87	
5	Non Methyl Hydro Carbon (NMHC)	rng/m³	BDL*	BDL*	BDL*	BDL*	

Authorized Signatory

GUATORES -1.1.

• FSSAI Approved Lab

 Recognised by MoEF. New Delhi Under Sec. 12 of Environmental (Protection) Act-1980 GPCB approved schedule II auditor ● ISO 14001

OHSAS 18001

• ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circlo,Udhana Magdalla Road, Surat-395007, Gujarat, India.

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Table-1.22 (d): DG Sets Stack Monitoring Results:

Sr.	Parameters	Unit	NDG Building (380 KVA)		Custom Building (320 KVA)	
No.			MAY-19	AUG-19	MAY-19	AUG-19
1	Particulate Matter	mg/Nm³	16.49	22.54	17.84	12,55
2	Sulphur Dioxide	ppm	6.58	3.89	4.49	5.63
3	Oxide of Nitrogen	ppm	34.46	30.5	29.62	33.43
4	Carbon Monoxide (CO)	mg/m³	8.02	11.45	6.87	5.73
5	Non Methyl Hydro Carbon (NMHC)	mg/m³ ∘	BDL*	BDL [™]	BDL*	BDL*

Table-1.23: DG Sets Noise Level Monitoring Results for the period: April, 2019 to Sept, 2019

	DG Set Average Noise Level In Leq. dB(A)						
Sr, No.	Sampling Location	At 1 M Distance From The Enclosure					
	Sampling Date	MAY-19	AUG-19				
1.	DG SET TOYO DENKI - 1	70.4	70.4				
2.	DG SET TOYO DENKI - 2	69.8	71.5				
3.	DG SET TOYO DENKI -3	68.5	69.8				
4.	SS-1 LT DG -320 KVA	82.8	68.9				
5.	5S3 -DG -200 KVA	84.2	70.8				
6.	LT PHASE -1 (625 KVA)	82.4	72.4				
7.	LT PHASE -2 (750 KVA)	81.4	67.7				
8.	ER-1 (100 KVA)	76.4	68.4				
9.	NDG BUILDING (380 KVA)	79.6	69.6				
10.	CUSTOM BUILDING (320 KVA)	84.2	70.8				

Authorized Signatory



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4G. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: ~
Table-1.22: DG Sets Stack Monitoring Results for the period: Oct, 2019 to March, 2020

Table-1.22 (a): DG Sets Stack Monitoring Results:

Sr.	Parameters	Unit	DG SET TOYO DENKI -1		DG SET TOYO DENKI -2		DG SET TOYO DENKI -3	
No.			NOV-19	FEB-20	NOV-19	FEB-20	NOV-19	FEB-20
1	Particulate Hatter	mg/%m³	25.82	20.81	19.81	23.74	22.57	18.61
2	Sulphur Dioxide	ppm	8.49	7.5	5.24	6.56	6.86	5.8
3	Oxide of Nizrogen	ppm	34,83	38.55	39.54	36.74	36.94	30.7
4	Carbon Monoxide (CO)	mg/sa ³	13.09	14.94	10.69	16.83	14.38	16.08
5	Mon Methyl Hydiro Carbon (NMHC)	mg/m³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.22 (b): DG Sets Stack Monitoring Results:

Sr.	Parameters	Unit	SS-1 LT DG -320 KVA		SS3 -DG -200 KVA		LT Phase +1 (625 KVA)	
No.			NOV-19	FEB-20	NOV-19	FEB-20	NOV-19	FEB-20
1	Particulate Matter	mg/Nm³	19.53	22.74	22.51	18.52	21.26	16.56
2	Sulphur Dicxide	ppm	5.66	6.18	4.5	5.27	4.08	3.39
3	Chidde of Nitrogen	ppm	32.51	34.69	30.34	34.55	29.35	34.34
4	Carbon Monoxide (CD)	mg/m³	11.45	16.03	10.31	11.45	3.44	5.73
5	Non Methyl Hydro Carbon (NMHC)	mg/m³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.22 (c): DG Sets Stack Monitoring Results:

Sr.	Parameters	Unit	LT Phase +2	(750 KVA)	ER-1 (100 KVA)	
No.			NOY-19	FEB-20	NOV-19	FEB-20
1	Particulate Matter	mg/fkm²	16.5	12.65	25.61	23.28
2	Sulphur Diaxide	ppm	5.74	6.68	3.4	5.75
3	Oxide of Nitroges	ppm	37.53	29.31	27.87	30.87
4	Carbon Monoide (CO)	mg/m³	8.02	6.87	5.73 .	4.58
5	Non Methyl Hydro Carbon (NMHC)	mg/m³	Not Detected	Not Detected	Not Detected	Not Detected



Authorized Signatory

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● ISO 14001 : 2364 ● OELSAS 13001 : 2007 ● ISO 5001 : 2005

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Table-1.22 (d): DG Sets Stack Monitoring Results:

Sr.	Parameters	Unit	NDG Buildin	g (380 KVA)	Custom Building (320 KVA)	
Na.			NOV-19	FEB-20	NOA-18	FEB-20
1	Particulate Matter	mg/Nm³	13.47	16.84	15.67	20.41
2	Sulphur Dioxide	ppm	3.19	4.54	4.57	5.43
3	Oxide of Nitrogen	ppm	26.55	28.36	28.63	30.58
4	Carbon Monoade (CC)	mg/m³	6.87	9.39	9.16	13.74
5	Non Methyl Hydro Carbon (NMHC)	mg/m²	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.23: DG Sets Noise Level Monitoring Results for the period: Oct, 2019 to March, 2020

	DG Set Average Noise Level In Leq. dB(A)							
Sr. No.	Sampling Location	At 1 M Distance From The Enclosure						
	Sampling Date	NOV-19	FEB-20					
1.	DG SET TOYO DENKI - 1	69.7	66.6					
2	DG SET TOYO DENKI - 2	72.A	67.2					
3.	DG SET TOYO DENKI -3	68.4	67.8					
1.	SS-1 LT DG -320 KVA	67.6	65.6					
5.	SS3 -DG -200 KVA	66.9	64.4					
6.	LT PHASE -1 (625 KVA)	71.2	70.8					
7.	LT PHASE -2 (750 KVA)	64.5	63.9					
8.	ER-1 (100 KVA)	70.8	69.5					
9.	NDG BUILDING (380 KVA)	68.5	67.4					
10.	CUSTOM BUILDING (320 KVA)	69.4	68.5					



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

 [■] GENIS approved
 ■ 180 14000 : 2004
 ● CHISAS 18000 : 2007
 ● 180 04001 : 2008
 Schedule II anditus

ANNEXURE - II

Details of Environment Management Budget For The Financial Year 2019-20: -

Sr No	Activities	Budget (In Lacs)	Expenditure (In Lacs)
1	Salary of Environmental Professionals	17.00	12.85
2	Environmental Study/Audit/Survey/Consultancy Services	21.0	23.8
3	Legal and Statutory Charges	4.00	6.0
4	Environmental Monitoring Services	16.31	14.04
5	Mangrove Afforestation/Plantation and Bio-shielding Pilot Project	4.00	3.973
6	Hazardous Waste Management	31.23	18.763
7	Horticulture Development –Greenery and Plantation	139.57	137.00
8	O&M of Sewage Treatment Plant and Effluent Treatment Plant	19.66	10.75
9	Environment Day Celebration	2.00	2.00
10	Treatment & Disposal of Bio medical Waste	0.72	0.84
11	Construction of additional Hazardous Waste storage Area	43.00	43.00
12	Miscellaneous Environmental Initiatives	5.31	2.75
	Total	303.80	275.766