

adani

Ports and  
Logistics

APDPPL/Env. Statement/2021-2022

Date: 19.05.2022

XGN ID:31664

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

**Subject: Submission of Environment Statement for the FY 2021-2022.**

Dear Sir,

With reference to above subject, we are submitting Environment Statement (Form 5) for the FY 2021-2022. for your kind reference. We hope this is in line with requirement of the board.

Please acknowledge the receipt of documents.

Thanking You

For Adani Petronet (Dahej) Port Pvt. Ltd.



(Authorized Signatory).

Copy to: Regional Officer, Gujarat Pollution Control Board, Bharuch

Encl: Form 5.

21.5.2022  
21/5/22  
Post Received  
Gujarat Pollution Control Board  
BHARUCH

Adani Petronet (Dahej) Port Pvt Ltd  
At & PO Lakhigam  
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Bharuch 392 130  
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**Environment Statement for 2021-22 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.**

**FORM V**  
(See Rule 14)

**Environmental Statement for the Financial Year ending 31<sup>st</sup> March 2022**

**PART – A**

- (i) Name and address of the Owner/ : Mr. Jagdish Patel  
Occupier of the Industry Operation or Chief Operating Officer  
Process Adani Petronet (Dahej) Port Pvt. Ltd.  
At & Post Lakhigam, Taluka: Vagra,  
District: Bharuch (Gujarat)
- (ii) Industry Category : Red – Large  
Primary (STC Code) NA  
Secondary (STC Code) NA
- (iii) Production Capacity : 1.34 MMT/ Month
- (iv) Year of Establishment : September 2011.
- (v) Date of last Environment Statement : 28<sup>th</sup> May 2021  
submitted



**Environment Statement for 2021-22 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.**

**PART – B**

**Water and Raw Material Consumption**

**(i) Water Consumption**

<b>Water Consumption Cu. Mtr./Day</b>	<b>884.08 m<sup>3</sup>/day</b>
Process	Nil
Cooling	738.33 m <sup>3</sup> /day
Domestic	145.75 m <sup>3</sup> /day

Name of Products	Process Water Consumption per unit of Product Output	
	During the current financial year (2020 – 21)	During the current financial year (2021 – 22)
Handling of Storage of Solid cargo	No process water consumption. <b>201752 m<sup>3</sup></b> of water consumption for dust suppression, firefighting & cooling ( <b>0.034 M<sup>3</sup>/MT</b> )	No process water consumption. <b>269492 m<sup>3</sup></b> of water consumption for dust suppression, firefighting & cooling ( <b>0.033 M<sup>3</sup>/MT</b> )

\* Unit does not go under any manufacturing process. The water consumed was mainly in firefighting, dust suppression, sprinkling, washing and greenbelt development activities.

**(ii) Raw Material Consumption**

Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of Output	
		During the current financial year (2020 – 21)	During the current financial year (2021 – 22)
NIL*	Not Applicable	Nil	Nil

\* Unit does not go under any manufacturing process. The water consumed was mainly in firefighting, dust suppression, sprinkling, washing and Greenbelt development activities.



**Environment Statement for 2021-22 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.**

**PART – C**

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

<b>Pollutant</b>	<b>Quantity of pollutants discharged (Mass/day)</b>	<b>Concentration of pollutant in discharges (mass/volume)</b>	<b>Percentage of variation from prescribed standards with reasons</b>
(a) Water	<ul style="list-style-type: none"><li>• Unit does not undergo any manufacturing or production process as it is service industry engaged in Handling and Storage of Solid cargo.</li><li>• Domestic water generated is treated in STP.</li></ul>		
(b) Air	<ul style="list-style-type: none"><li>• DG Sets are provided as standby power sources and used during power failure.</li><li>• The Height of DG Stacks as per CPCB/GPCB Standards. All the Monitored parameters are within Standards.</li><li>• Particulate matters value is well within the prescribed limits stipulated by concerned regulatory authorities.</li></ul>		
Particulate Matter (mg/Nm <sup>3</sup> )	DG Sets Stack Emission Results is enclosed as <b>Annexure-1</b> .		Nil
Sulphur Dioxide (PPM)			Nil
Nitrogen Oxide (PPM)			Nil

\* Unit does not go under any manufacturing process, as it is service industry (Port) engaged in Handling & Storage of Solid Cargo. There is no effluent generation & disposal.

There was approx. 20 KL/day sewage water generation. The sewage water was treated in the Sewage treatment plant (STP) and treated water confirming to prescribed standards reused in gardening and plantation activities.



**Environment Statement for 2021-22 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.**

**PART – D**

**Hazardous Wastes**

**(As specified under Hazardous Wastes Management and Handling Rules 1989)**

Hazardous Wastes	Total Quantity	
	During the current financial year (2020 – 21)	During the current financial year (2021 – 22)
(a) From Process	1). Sludge and Filter Contaminated with oil (Cat. 3.3) – Nil. 2). Used Oil (Cat. 5.1) – 14.146MT. 3). Wastes/ Residues containing Oil (Cat. 5.2) – 4.730 MT. 4). Process Waste, Residues & Sludge (Paint) (Cat. – 21.1) – Nil. 5). Discarded Barrels (Cat. 33.1) – 1.41 MT. 6). Contaminated Cotton rags or other cleaning materials (Cat. 33.2) - Nil.	1). Sludge and Filter Contaminated with oil (Cat. 3.3) – Nil. 2). Used Oil (Cat. 5.1) – 5.67 MT. 3). Wastes/ Residues containing Oil (Cat. 5.2) – Nil. 4). Process Waste, Residues & Sludge (Paint) (Cat. – 21.1) – Nil. 5). Discarded Barrels (Cat. 33.1) – 8 Nos. 6). Contaminated Cotton rags or other cleaning materials (Cat. 33.2) – 2.25 MT
(b) From Pollution Control facilities	Nil	Nil

**PART – E**

**Solid Waste**

Solid Waste	Total Quantity Generated (MT/Annum)	
	During the current financial year (2020 – 21)	During the current financial year (2021 – 22)
(a) From Process (Ash)	Nil	Nil
(b) From Pollution Control facilities	Nil	Nil
(C-1) Quantity recycled or reutilized within the unit	Approx. 152.94 (Vermicomposting 120MT & remaining organic waste converted in green manure)	Approx. 180 MT (Vermicomposting 150MT & remaining organic waste converted in green manure)
(C-2) Sold	Nil	Nil
(C-3) Disposed	Nil	Nil

Note: Scrap is collected in designated scrap yard at central store and sold to scrap authorized recycler/ vendor



## Environment Statement for 2021-22 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.

### PART – F

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

- Oil was generated from various maintenance activities which was collected in Barrels kept in covered hazardous waste storage area. These wastes are sold to GPCB authorized registered recyclers. (M/s. Reliance Barrel supply Co.)
- Cotton waste (Oily rugs) generated from site the same was packed in HDPE bags and stored in Hazardous waste storage area. This waste is disposed at GPCB authorized CHWIF/ Co-processing site.

### PART – G

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

Unit has installed 80 M<sup>3</sup>/Day capacities Sewage Treatment Plant for treatment of the Sewage water generated at site. The treated water is being reused within port premises. Unit has formed dedicated Horticulture department & developing green belt within port premises. Total 22.86 ha of green belt development is carried out till date.

### PART – H

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

- Unit is doing Regular Environmental Monitoring of Port & surrounding area through reputed NABL certified Laboratory. All the required environmental parameters are well within specified limit and the details of monitored data is regularly submitting to GPCB.
- Unit has installed STP for the treatment of the Sewage water the treated water is reusing for plantation & gardening activities. Unit has also provided dump pond and conveyance channel for collection of runoffs generated from Coal Yard.
- Unit has provided Dust Suppression System and Dry Fog Dust Suppression System at coal yard & conveyer system and carrying out regular water spreading to control the dust exposure. Wind breaking wall has provided around the periphery of Coal Yard.
- Unit has formed dedicated Horticulture department & developing green belt within port premises.



## Environment Statement for 2021-22 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.

- Regular road cleaning both inside and outside the port premises is a continuous activity carried out by below two methods. The road sweeping by both methods is carried out till 3 Km from the port main gate on the main road leading to Dahej by APDPPL.

**Road cleaning by sweeping machine:** APDPPL, have 02 nos. of large capacity road sweeping machine and one tractor sweeping machine. Truck mounted Industrial Vacuum Cleaning Machines have road cleaning capacity substantially as the storage capacity of the chassis mounted vacuum machine are 04 tone/ hour each which allow rapid collection of spillage, dust and subsequent disposal.

**Manual Road Cleaning:** In addition to the sweeping machine APDPPL has employed labour for continuous cleaning of roads both inside and outside the port area. It is done by three team consisting of 5 members each. All the coal dust collected is sent to the coal yard.

- Tyre washing system has installed at to restrict the dust carry over through cargo vehicles.

### PART – I

#### **Any other particulars for improving the quality of environment.**

- Environmental awareness programs have been conducted during the year for employees at port.
- Integrated housekeeping management is undertaken at top priority to maintain neat and clean working environment in the plant area.
- APDPPL adoption of 5 R's principle of waste management i. e Reduce, Reuse, reprocess, recycle & recover.
- 100% wastewater generated is being reused.

Date: 19-05-2022



(Authorized Signatory)

M/s. Adani Petronet Dahej Port Private Limited



# Environment Statement for 2021-22 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.

## Annexure – 1

### DG SETS STACK EMISSION AND NOISE LEVEL MONITORING

#### 1. MRSS (SS 5) 125 KVA

SR. NO.	TEST PARAMETERS	UNIT	DG SET # 1 MRSS (SS 5) 125 KVA			
			21/05/2021	13/08/2021	25/11/2021	28/02/2022
1	Particulate Matter	mg/Nm3	21.56	26.37	28.34	24.22
2	Sulphur Dioxide	ppm	3.97	2.70	3.64	4.25
3	Oxide of Nitrogen	ppm	36.57	28.37	32.48	36.50
4	Non Methyl Hydro Carbon (NMHC)	mg/m3	ND*	ND*	ND*	ND*
5	Carbon Monoxide (CO)	gm/kw-hr.	0.031	0.0321	0.029	0.026
DG NOISE Leq dB (A)			69.5	67.4	68.3	70.5

BDL\*: Below Detection Limit: Non Methyl Hydro Carbon 5 mg/m3, Result on 15% O2 Correction when oxygen is greater than 15%

#### 2. SS7B 125 KVA

SR. NO.	TEST PARAMETERS	UNIT	DG SET # 2 SS7B 125 KVA			
			21/05/2021	13/08/2021	25/11/2021	28/02/2022
1	Particulate Matter	mg/Nm3	27.63	23.47	25.33	21.37
2	Sulphur Dioxide	ppm	4.21	3.66	4.07	5.41
3	Oxide of Nitrogen	ppm	32.40	26.58	29.44	31.55
4	Non Methyl Hydro Carbon (NMHC)	mg/m3	ND*	ND*	ND*	ND*
5	Carbon Monoxide (CO)	gm/kw-hr.	0.018	0.0196	0.018	0.013
DG NOISE Leq dB (A)			66.3	70.2	72.5	71.1

BDL\*: Below Detection Limit: Non Methyl Hydro Carbon 5 mg/m3, Result on 15% O2 Correction when oxygen is greater than 15%

#### 3. MARINE (SS8) 125 KVA

SR. NO.	TEST PARAMETERS	UNIT	DG SET # 3 MARINE (SS8) 125 KVA			
			21/05/2021	13/08/2021	25/11/2021	28/02/2022
1	Particulate Matter	mg/Nm3	25.60	28.44	23.45	18.62
2	Sulphur Dioxide	ppm	5.21	4.29	3.71	4.38
3	Oxide of Nitrogen	ppm	37.55	30.61	26.44	28.66
4	Non Methyl Hydro Carbon (NMHC)	mg/m3	ND*	ND*	ND*	ND*
5	Carbon Monoxide (CO)	gm/kw-hr.	0.0226	0.0264	0.024	0.029
DG NOISE Leq dB (A)			71.7	73.5	72.5	69.7



## Environment Statement for 2021-22 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.

BDL\*: Below Detection Limit: Non Methyl Hydro Carbon 5 mg/m<sup>3</sup>, Result on 15% O<sub>2</sub> Correction when oxygen is greater than 15%

### 4. SILO (SS11) 125 KVA

SR. NO.	TEST PARAMETERS	UNIT	DG SET # 4 SILO (SS11) 125 KVA			
			21/05/2021	13/08/2021	25/11/2021	28/02/2022
1	Particulate Matter	mg/Nm <sup>3</sup>	32.46	34.53	32.42	26.87
2	Sulphur Dioxide	ppm	6.57	5.83	6.72	7.68
3	Oxide of Nitrogen	ppm	34.53	32.46	28.38	30.45
4	Non Methyl Hydro Carbon (NMHC)	mg/m <sup>3</sup>	ND*	ND*	ND*	ND*
5	Carbon Monoxide (CO)	gm/kw-hr.	0.025	0.034	0.031	0.031
DG NOISE Leq dB (A)			72.2	69.6	67.9	72.6

BDL\*: Below Detection Limit: Non Methyl Hydro Carbon 5 mg/m<sup>3</sup>, Result on 15% O<sub>2</sub> Correction when oxygen is greater than 15%

### 5. SS 7A 125 KVA

SR. NO.	TEST PARAMETERS	UNIT	DG SET # 5 SS 7A 125 KVA			
			21/05/2021	13/08/2021	25/11/2021	28/02/2022
1	Particulate Matter	mg/Nm <sup>3</sup>	--	26.33	24.65	28.65
2	Sulphur Dioxide	ppm	--	4.39	5.87	6.72
3	Oxide of Nitrogen	ppm	--	29.42	33.62	34.54
4	Non Methyl Hydro Carbon (NMHC)	mg/m <sup>3</sup>	--	ND*	ND*	ND*
5	Carbon Monoxide (CO)	gm/kw-hr.	--	0.0311	0.027	0.031
DG NOISE Leq dB (A)			--	74.3	73.6	68.4

BDL\*: Below Detection Limit: Non Methyl Hydro Carbon 5 mg/m<sup>3</sup>, Result on 15% O<sub>2</sub> Correction when oxygen is greater than 15%



**Environment Statement for 2021-22 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.**

**Annexure – 2**

**Expenditure for Environmental Protection Activities during FY 2021-2022**

S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN Lacs)	Budgeted Cost (IN Lacs)
		2020- 2021	2021
1.	EHS Manpower	5.5	7.0
2.	Legal & Statutory Expenses	1.12	5.0
3.	Environmental Monitoring Services	14.71	16.0
4.	Cost for Water Consumption and use dust suppression	84.62	114.97
5.	Hazardous Waste Management & Disposal	1.32	2.0
6.	Greenbelt Development and Plantation	38.0	36.19
7.	O&M of Sewage Treatment Plant	5.99	5.58
8.	Environment Day Celebration	0.36	-
9.	Treatment and Disposal of Bio-Medical Waste	1.92	2.0
10.	Operation and Maintenance of Road Cleaning equipment and manpower	61.68	73.70
11.	Operation and Maintenance of Fire staff engage in water sprinkling activity	99.04	87.66
12.	Environmental Study / Audit and Consultancy	0.54	2.0
13.	Bio Shield Project at village Malpur & Jambusar, Bharuch 1000m x 200m(1.0km)	4.07	4.0
14	EHS Display Board	0.39	1.0
<b>Total Amount (In Lacs)</b>		<b>319.26</b>	<b>374.6</b>