

Ref No.: EHS/GPCB/HO/Env. St/2020-21
26th May, 2021

XGN ID: - 31664

To,

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

Subject: Environment Statement for the financial year ending 31st March, 2021 for
M/s Adani Petronet (Dahej) Port Pvt. Ltd.

Ref: Ref. CCA vide letter no. GPCB/BRCH-B/CCA-06(7) ID-31664/571845 Dated
01/11/2020

Dear Sir,

With reference to the above mentioned subject and reference, please find enclosed
Environmental Statement in Form V prescribed under Rule 14 of the Environment
(Protection) Rules 1986, for M/s Adani Petronet (Dahej) Port Pvt. Ltd., At & Post
Lakhigam, Taluka Vagra, District Bharuch for the financial year ending 31st March
2021.

Thank you,

Yours faithfully,

For Adani Petronet (Dahej) Port Pvt. Ltd.


(Authorized Signatory)

Encl: As above.

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

Adani Petronet (Dahej) Port Pvt. Ltd.
At & Po Lakhigam
Taluka Vagra, Via Dahej
Bharuch 392 130
Gujarat, India
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Gujarat Pollution Control Board
BHARUCH

Environment Statement for 2020-21 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.

FORM V
(See Rule 14)

Environmental Statement for the Financial Year ending 31st March 2021

PART – A

- (i) Name and address of the Owner/
Occupier of the Industry Operation or
Process : Mr. Pranav Choudhary
Chief Executive Officer
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 : 0.99 MMT/ Month
- (iv) Year of Establishment : September 2011.
- (v) Date of last Environment Statement
submitted : 26th May 2020

Environment Statement for 2020-21 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.

PART – B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption Cu. Mtr./Day	668.92m ³ /day
Process	Nil
Cooling	552.74 m ³ /day
Domestic	116.17 m ³ /day

Name of Products	Process Water Consumption per unit of Product Output	
	During the previous financial year (2019 – 20)	During the current financial year (2020 – 21)
Handling of Storage of Solid cargo	No process water consumption. 216715 m³ of water consumption for dust suppression, firefighting & cooling (0.034 M³/MT)	No process water consumption. 201752 m³ of water consumption for dust suppression, firefighting & cooling (0.034 M³/MT)

* 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 previous financial year (2019-20)	During the current financial year (2020-21)
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 2020-21 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.

PART – C

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

Pollutant	Quantity of pollutants discharged (Mass/day)	Concentration of pollutant in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	<ul style="list-style-type: none">Unit does not undergo any manufacturing or production process as it is service industry engaged in Handling and Storage of Solid cargoDomestic water generated is treated in STP		
(b) Air	<ul style="list-style-type: none">DG Sets are provided as standby power sources and used during power failure.The Height of DG Stacks as per CPCB/GPCB Standards. All the Monitored parameters are within Standards.Particulate matters value are well within the prescribed limits stipulated by concerned regulatory authorities.		
Particulate Matter (mg/Nm ³)	DG Sets Stack Emission Results is enclosed as Annexure-1.		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. 18Kl/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 2020-21 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 previous financial year (2019 – 20)	During the current financial year (2020 – 21)
(a) From Process	1). Sludge and Filter Contaminated with oil (Cat. 3.3) – Nil. 2). Used Oil (Cat. 5.1) – 17.420MT. 3). Wastes/ Residues containing Oil (Cat. 5.2) – 3.560 MT. 4). Process Waste, Residues & Sludge (Paint) (Cat. – 21.1) – Nil. 5). Discarded Barrels (Cat. 33.1) – 1.65 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) – 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.
(b) From Pollution Control facilities	Nil	Nil

PART – E

Solid Waste

Solid Waste	Total Quantity Generated (MT/Annum)	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
(a) From Process (Ash)	Nil	Nil
(b) From Pollution Control facilities	Nil	Nil
(C-1)Quantity recycled or reutilized within the unit	Nil	Approx. 152.94 (Vermicomposting 120MT & 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 2020-21 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 waste are sold to GPCB authorized registered recyclers.
- Cotton waste (Oily rags) generated from site the same was packed in HDPE bags and stored in Hazardous waste storage area. This waste are dispose 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 M³/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 19.40 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 runoff 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 2020-21 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.

- Tire 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.
- Awareness drive on World Wetland day celebration at APDPPL.
- 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% waste water generated is being reused

Date: 26-05-2021


(Authorized Signature)

Name: Mr. Manoj Katar

Designation: Chief Operating Officer

At & Post Lakhigam, Taluka Vagra, District: Bharuch

Environment Statement for 2020-21 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			
			26/05/2020	22-08-20	28.11.20	18.02.2021
1	Particulate Matter	mg/Nm ³	24.37	20.44	20.44	28.64
2	Sulphur Dioxide	ppm	4.53	5.49	5.49	6.38
3	Oxide of Nitrogen	ppm	26.42	31.23	31.23	34.51
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	ND*	ND*	ND*	ND*
5	Carbon Monoxide (CO)	mg/m ³	5.82	8.59	8.59	13.26
DG NOISE Leq dB (A)			73.6	72.9	72.3	72.8

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			
			26/05/2020	22-08-20	28.11.20	18.02.2021
1	Particulate Matter	mg/Nm ³	16.84	12.51	12.51	24.52
2	Sulphur Dioxide	ppm	6.96	4.81	4.81	5.62
3	Oxide of Nitrogen	ppm	29.36	26.60	26.60	29.44
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	ND*	ND*	ND*	ND*
5	Carbon Monoxide (CO)	mg/m ³	8.29	6.25	6.25	11.04
DG NOISE Leq dB (A)			72.5	73.5	71.5	70.6

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			
			26/05/2020	22-08-20	28.11.20	18.02.2021
1	Particulate Matter	mg/Nm ³	26.74	23.42	23.42	23.56
2	Sulphur Dioxide	ppm	8.70	6.21	6.21	4.61
3	Oxide of Nitrogen	ppm	33.73	30.45	30.45	36.52
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	ND*	ND*	ND*	ND*
5	Carbon Monoxide (CO)	mg/m ³	6.13	8.44	8.44	12.81
DG NOISE Leq dB (A)			71.8	72.6	72.2	69.8

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

Environment Statement for 2020-21 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.

4. SILO (SS11) 125 KVA

SR. NO.	TEST PARAMETERS	UNIT	DG SET # 4 SILO (SS11) 125 KVA			
			26/05/2020	22-08-20	28.11.20	18.02.2021
1	Particulate Matter	mg/Nm ³	19.42	16.64	16.64	29.42
2	Sulphur Dioxide	ppm	5.28	4.37	4.37	7.65
3	Oxide of Nitrogen	ppm	35.81	28.37	28.37	31.76
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	ND*	ND*	ND*	ND*
5	Carbon Monoxide (CO)	mg/m ³	9.32	6.36	6.36	15.14
DG NOISE Leq dB (A)			72.6	71.8	71.7	71.1

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

Environment Statement for 2020-21 for M/s Adani Petronet (Dahej) Port Pvt. Ltd.

Annexure – 2

Expenditure for Environmental Protection Activities during FY 2020-2021

S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN LAC)	Budgeted Cost (INR IN Lacs)
		2020- 2021	2021
1.	EHS Manpower	6.85	7.0
2.	Legal & Statutory Expenses	7.16	5.0
3.	Environmental Monitoring Services	16.52	21.0
4.	Cost for Water Consumption and use dust suppression	46.08	104.7
5.	Hazardous Waste Management & Disposal	2.72	2.0
6.	Greenbelt Development and Plantation	44.00	43.64
7.	O&M of Sewage Treatment Plant	6.77	6.70
8.	Environment Day Celebration	0.10	0.10
9.	Treatment and Disposal of Bio-Medical Waste	1.92	2.0
10.	Operation and Maintenance of Road Cleaning equipment and manpower	49.83	56.72
11.	Operation and Maintenance of Fire staff engage in water sprinkling activity	59.70	79.38
12.	Environmental Study / Audit and Consultancy	3.07	5.0
13.	Bio Shield Project at village Malpur & Jambusar, Bharuch 1000m x 200m(1.0km)	6.78	7.0
14	EHS Display Board	5.36	5.0
Total Amount (In Lacs)		256.86	345.24