

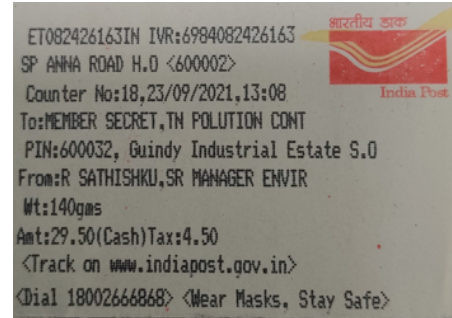
AECTPL/TNPCB/2021-22/79

Date: 23/09/2021

To,

**The Member Secretary,**  
Tamil Nadu Pollution Control Board,  
76, Mount Salai,  
Guindy,  
Chennai – 600 032

MS



Dear Sir,

**Sub:** Submission of Environmental Statement (Form V) for the financial year ending 31<sup>st</sup> March, 2021 of Adani Ennore Container Terminal Private Limited, Chennai

**Ref:** 1. Consent Order No. 2108136876855 under Water Act dated 24.08.2021  
2. Consent Order No. 2108236876855 under Air Act dated 24.08.2021

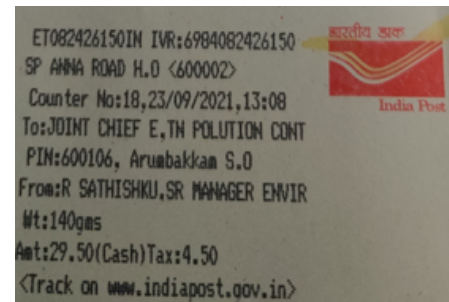
With reference to the captioned subject and cited references above, we submit herewith the Environmental Statement of **M/s Adani Ennore Container Terminal Private Limited**, in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31<sup>st</sup> March 2021.

Submitted for your kind information and records.

Thanking you,

JCEE

for **Adani Ennore Container Terminal Private Limited (AECTPL)**

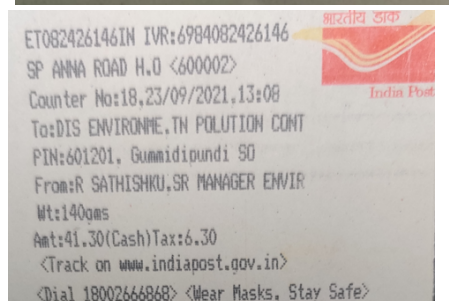


  
**Jai Khurana**  
Chief Executive Officer

**Encl:** As above

DEE

**Copy To:**



- 1) The Joint Chief Environmental Engineer, Tamilnadu Pollution Control Board, First Floor, 950/1, Poonamallee High Road, Arumbakkam, Chennai-600 106
- 2) The District Environmental Engineer, Tamil Nadu Pollution Control Board, Gummidipoondi – 601201.



Adani Ennore Container Terminal Pvt Ltd  
Adani House  
C/o, Kamarajar Port Limited,  
Ponneri Taluk,  
Tiruvallur District,  
Tamil Nadu – 600 120.

Tel +91 44 2824 3062

info@adani.com  
www.adani.com

CIN: U61200GJ2014PTC078795

## Vijayasankar K

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**From:** Sathish Kumar R  
**Sent:** Thursday, September 23, 2021 1:03 PM  
**To:** [ecompliance-tn@gov.in](mailto:ecompliance-tn@gov.in)  
**Cc:** Jai Khurana; Milind Sangtiani; Vijayasankar K; Subramanian A  
**Subject:** Submission of Environmental Statement (Form V) for the financial year ending 31st March, 2021 of Adani Ennore Container Terminal Private Limited, Chennai  
**Attachments:** AECTPL Form V 2020-21 23.09.2021.pdf  
**Importance:** High

Dear Sir,

With reference to the captioned subject, we submit herewith the **Environmental Statement** of **M/s Adani Ennore Container Terminal Private Limited**, in **Form-V** prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31st March 2021.

Submitted for your kind information and records.

Thanks and Regards

**R. Sathish Kumar**

Head - Environment (Southern Ports) | Adani Ports and Special Economic Zone Limited |

Mob +91 91760 00959 | Direct: +91 44 2796 8177 | Extn. 69177 |

[sathish.r@adani.com](mailto:sathish.r@adani.com) | [www.adaniports.com](http://www.adaniports.com) |



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with  
Goodness

Our Values: Courage | Trust | Commitment



## **Form-V**

(See rule 14 of Environment (Protection) Rules, 1986)

### **Environmental Statement for the financial year ending 31<sup>st</sup> March 2021**

#### **PART - A**

i) Name and Address of the owner / occupier of the industry operation or process	:	Mr. Jai Singh Khurana Chief Executive Officer Adani Ennore Container Terminal Private Limited C/O Kamarajar Port Limited Vallur Post, Ennore Thiruvallur District- 600 120 Tamil Nadu, India
ii) Industry Category	:	<b>Primary</b> : Red  <b>Secondary</b> : 1065 – Ports and Harbour, Jetties and Dredging Operations.
iii) Production Capacity	:	<b>Cargo Handling Capacity</b> :  11.68 MMTPA of Container cargo
iv) Year of establishment	:	2016
v) Date of the last environmental statement submitted	:	Vide our Letter No. AECTPL/TNPCB/2020-21/28 dated 21.09.2020



**PART - B**

**WATER AND RAW MATERIAL CONSUMPTION**

**(i) Water Consumption**

<b>S. No</b>	<b>Water Consumption (m<sup>3</sup>/Calendar Day)</b>	<b>2019-2020</b>	<b>2020-2021</b>
1	Domestic	10.93	13.8

**(ii) Raw Material Consumption**

<b>S. No.</b>	<b>Name of Raw Material</b>	<b>Name of Products</b>	<b>Consumption of Raw Material per Unit of output</b>	
			<b>During the previous financial year (2019-20)</b>	<b>During the current financial year (2020-21)</b>
1	Not Applicable	Not Applicable	NIL	NIL

The unit does not undergo any manufacturing process. The water consumed is mainly for firefighting, Greenbelt development and maintenance, etc.,

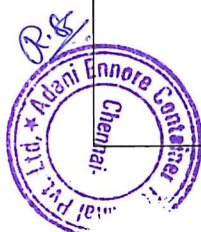


**PART – C**

**POLLUTION DISCHARGE TO ENVIRONMENT/ UNIT OF OUTPUT**

**(Parameters as specified in the consent issued)**

Pollutants	Quality of Pollutants Discharged (Mass/day)	Concentration of Pollutants discharges (mass/volume)	Percentage of variation from prescribed standards with reason	
a) Water	STP Treated Water Characteristics: -			
	Parameter	Consent Limit	Actual	% Variation with prescribed standard
	pH	5.5-9	7.48	-Nil-
	Total Suspended Solids (mg/l)	30	20.45	-Nil-
	BOD (3 days at 27°C) (mg/l)	20	13.86	-Nil-
b) Air	DG sets are provided as standby power source and are used during power failure only. The Height of DG stacks as per CPCB/ TNPCB Standards. All the monitored parameters are within standards.			
Particulate Matter (mg/Nm3)	DG stack emission report is enclosed as <b>Annexure 1</b>			
Sulphur Dioxide (mg/Nm3)				
Nitrogen Oxide (ppm)				



**PART-D**

**HAZARDOUS WASTES**

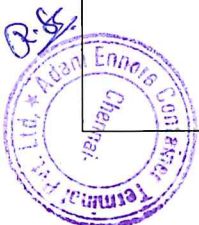
**(As specified under Hazardous Waste Management and Handling Rules 1989)**

Hazardous Wastes	Total Quantity (Kg)	
	During the previous Financial Year (2019-20)	During the current Financial Year (2020-21)
(a) From Process	<ul style="list-style-type: none"><li>• Used Oil (5.1) - 10 Tons</li><li>• Oil from Contaminated filter element (3.3) - 0.5 Tons</li><li>• Empty Oil barrel (33.1) - 0.5 Tons</li></ul>	Nil
(b) From Pollution control facilities	NA	NA

**PART-E**

**SOLID WASTES**

TOTAL QUANTITY GENERATED			
Solid Waste		During the previous Financial Year (2019-20)	During the current Financial Year (2020-21)
a)	From process	NIL	NIL
b)	From pollution control facilities- STP	57.28 kgs	63.42 kgs
c)	1. Quantity recycled or reutilized within the Unit	57.28 kgs	63.42 kgs
	2. Sold	NIL	NIL
	3. Disposed	NIL	NIL





## **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:**

- **"Zero Waste to Landfill" Initiative** - No waste is being sent to landfill or incineration facility. MIDPL is having Integrated Waste Management System (IWMS) to proper segregate & recover the materials and are handled as per 5R (Reuse, Recycle, Recover and Reprocess) principle.
- AECTPL has awarded with Zero Waste to Landfill Management System (ZWTL MS 2020) from TÜV Rheinland India Pvt. Ltd (Annexure – 2).
- Hazardous wastes include Used oil, Filters contaminated with Oil and Empty barrels / containers contaminated with hazardous wastes. All the hazardous wastes are collected and stored properly in Integrated Waste Management Shed & are being disposed to TNPCB authorized /registered recyclers in line with Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 (As amended).
- The used batteries and E –waste are also stored in Integrated Waste Management Shed and disposed off through approved vendor in line to E-Waste Management Rules 2016 (as amended).
- Hazardous waste Annual returns in Form 4 was submitted in line with the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016.
- E-waste returns in Form 3 was submitted in line with the E-waste Management Rules, 2016.
- 100% utilization of STP sludge for greenbelt maintenance as manure.
- AECTPL certified as "Single Use Plastic (SUP) Free" site from CII –ITC Centre of Excellence for Sustainable Development (Annexure – 3)
- **Plastic free Drive:**
  - AECTPL has displayed stickers at various places at the facility, spreading awareness as plastic are prohibited now.



- Awareness sessions organized among department and contract workers. Made shop keepers and canteen owners to stop providing plastic carry bags to carry the material.
- Confirms to stop usage of plastic cups to serve tea and water pouches within the premises of AECTPL.
- Regular supervision by Team Members at Port Canteens for verification of prohibition of plastic.

#### **PART-G**

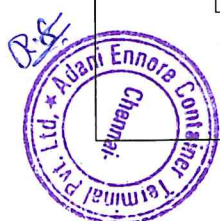
#### **Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production**

- Adani Ennore Container Terminal Private Limited is having electrified cranes only and hence the diesel consumption by the cranes is totally eliminated.
- All the domestic wastewater being generated at port is treated at existing sewage treatment plant and the treated water is being reused within port premises for gardening/horticulture purpose.
- Sewage Treatment Plant (STP) is in continuous operation and the treated effluent water quality is meeting the TNPCB norms. The total cost spent on STP operation during the year 2020-21 is Rs. 4.39 Lakhs.
- Regular Environmental monitoring is being carried out through NABL accredited laboratory. All the monitored environmental parameters are well within the prescribed norms & the details of monitored data is being submitted regularly to TNPCB, CPCB, MoEF&CC and other concerned authorities.
- Unit is continuously developing and maintaining Greenbelt within port premises.
- Implemented Integrated Waste Management System (IWMS) for managing all types of wastes in line with 5R principle.

#### **PART-H**

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

<b><u>Regular Expenditure (Cost in INR lakhs/year)</u></b>		
<b>S. No.</b>	<b>Description</b>	<b>Cost</b>
1	Environmental monitoring of MOEF recognized third party	7.22





2	Green belt & Horticulture development	4.87
3	Annual maintenance contractor of STP operation	4.39
4	Operation & Maintenance of Integrated Waste Management System	1.88

### **PART-I**

#### **ANY OTHER PARTICULARS IN RESPECT TO ENVIRONMENT**

- Working towards achieving "Zero Waste Inventory" as per our Group Environment Policy and all wastes are being handled in line with 5R Principle.
- Paperless Operation is in place (Except for Statutory requirements) using application tools and Software – Terminal Info Gateway (TIG).
- Energy Conservation Committee to measure the amount of energy consumed and take actions to reduce the energy consumed through port operations
- Water Warriors committee to identify and reduce the water consumption. The committee would propose innovative water solutions.
- Integrated Management System (ISO 9001:2015, 14001:2015 and 45001:2018) certified Port.
- Working towards Implementation and obtaining "5S" Certification at MIDPL
- Working towards Implementing Energy Management System ISO 50001:2018
- Environmental benchmarking has been performed for GHG Emission with global ports.

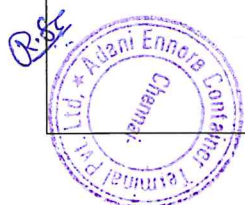
Date: 23.09.2021

(Signature of a person carrying out an industry operation or process)

Name : **Jai Khurana**

Designation: **Chief Executive Officer**

Address : Adani Ennore Container Terminal Pvt Ltd  
C/O Kamarajar Port Limited  
Vallur post, Ennore  
Thiruvallur District– 600 120.



AECTPL- STACK MONITORING (April'2020 to March'2021)														
Location		DG 1500KVA												
		I	III	III	III	III	III	III	II	I	I	I	I	III
Month & Year		May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	I	I	III
S.No.	Parameters													
1	Stack Temperature, °C	220.0	233.0	220.0	235.0	224.0	210.0	217.0	219.0	214.0	218.0	208.0	218.0	212.0
2	Flue Gas Velocity, m/s	20.1	21.4	22.9	23.7	25.0	24.2	23.1	22.8	23.0	22.2	21.0	21.4	21.7
3	Gas Discharge, Nm3/hr	5467.0	5670.0	6247.0	6260.0	6728.0	6703.0	6320.0	6194.0	6329.0	6049.0	5837.0	5869.0	6011.0
4	Sulphur Dioxide, mg/Nm3	7.0	7.6	7.9	8.3	7.7	6.2	8.8	8.5	7.9	8.4	7.1	8.3	7.8
5	NOX (as NO2) in ppmv	129.0	134.0	126.0	134.0	122.0	128.0	121.0	119.0	105.0	114.0	102.0	110.0	109.0
6	Particular matter, mg/Nm3	30.6	32.7	34.1	32.8	30.2	32.6	30.4	32.1	30.6	33.7	30.2	33.1	30.6
7	Carbon Monoxide, mg/Nm3	70.0	76.0	70.0	81.0	85.0	80.0	77.0	80.0	78.0	81.0	70.0	79.0	70.0
AECTPL- STACK MONITORING (April'2020 to March'2021)														
Location		DG 1500KVA												
		II	II	II	I	I	II	II	I	I	III	II	II	II
Month & Year		May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Feb-21	Mar-21	
S.No.	Parameters													
1	Stack Temperature, °C	226.0	218.0	229.0	220.0	217.0	212.0	205.0	210.0	215.0	204.0	221.0	227.0	
2	Flue Gas Velocity, m/s	21.0	22.2	23.1	22.0	23.0	23.9	21.7	21.9	22.6	20.6	21.7	22.2	
3	Gas Discharge, Nm3/hr	5629.0	6043.0	6208.0	5972.0	6291.0	6587.0	6075.0	6070.0	6197.0	5790.0	5895.0	5917.0	
4	Sulphur Dioxide, mg/Nm3	7.8	7.2	7.5	7.0	7.3	7.9	7.6	8.1	8.2	7.6	7.8	8.6	
5	NOX (as NO2) in ppmv	125.0	128.0	140.0	129.0	117.0	124.0	112.0	112.0	110.0	103.0	116.0	121.0	
6	Particular matter, mg/Nm3	31.3	30.5	33.7	35.2	31.9	33.8	28.4	34.2	31.9	32.4	30.4	35.0	
7	Carbon Monoxide, mg/Nm3	68.0	72.0	84.0	73.0	78.0	82.0	73.0	85.0	78.0	75.0	73.0	77.0	



# Certificate

Standard: **Zero Waste to Landfill Management System  
(ZWTL MS 2020)**

Certificate Holder: **Adani Ennore Container Terminal Private Limited**  
Ennore Terminal, C/O Kamarajar Port Ltd,  
Tiruvallur - 600120, Tamil Nadu, India

Scope: **Providing Port facilities for Handling and  
Storage of Containerized Cargo**

Proof has been furnished by means of an audit that the  
Requirements of ZWTL MS 2020 are met, with the  
achievement of waste diversion rate of above 99%

Validity: This certificate is valid from 01-06-2021 until 31-05-2024  
Subject to satisfactory annual surveillance audits.

Certificate No. TUV/ZWLMS/2021/Adani Ports/0503

New Delhi, 01-06-2021

TÜV Rheinland India Pvt. Ltd.  
Office 610, 6<sup>th</sup> Floor, iThum  
Tower, A-40, Sector-62,  
Noida- 201301, India



CII-ITC Centre of Excellence  
for Sustainable Development



Confederation of Indian Industry

## Certificate

### Single-use Plastic Free

#### **Adani Ennore Container Terminal Private Limited**

Kamarajar Port Limited, Ponneri Taluk, Tiruvallur District, Tamil Nadu 600 120. India.

This is to certify that Adani Ennore Container Terminal Private Limited at the location mentioned above is Single-use Plastic Free as verified by the Confederation of Indian Industry for the period 01 April 2020 to 31 March 2021 under the provisions of the **Plastics-use Protocol: Verification and Certification (1.0)**.



**Ms Seema Arora**

*Deputy Director General*

*Confederation of Indian Industry (CII)*

*Centre of Excellence for Sustainable Development (CESD)*

**Certificate Date:** 6 May 2021

**Certificate No:** CII/PuP/2021/010

This certificate has been awarded after the company fulfilled the requirements for phasing-out single-use plastics and providing evidence for it. Responsibility for the data provided to CII rests solely with the company. The conditions of certification are detailed in the Annex.





CII-ITC Centre of Excellence  
for Sustainable Development



Confederation of Indian Industry

### Annex

The certification applies to the following single-use plastic items identified and phased out by Adani Ennore Container Terminal Private Limited:

- Cutlery (knives, forks, spoons, chopsticks)
- Crockery (plates, glasses, cups) and plastic food containers
- Straws
- Stirrers
- Carry bags
- Items of decoration (polystyrene)
- Garbage bags
- Sheets for food wrapping and spreading on dining tables
- Plastic coated teacups and tumblers
- Water pouches
- Flags
- Gloves

This certification is based on the verification of data set for the period from 1 April 2020 to 31 March 2021.

**Organizational Boundary:** Adani Ennore Container Terminal Private Limited

**Operational Boundary:** Administrative, canteen, kitchen and operational areas

**Material Boundary:** Single-use Plastics

#### Reference

**Verification date:** 8 April 2021

**Verification Report No:** PuP/Verification/2021/AdaniPort/002

**Mode:** On account of the COVID-19 pandemic, the verification process was virtual and followed provisions outlined in the Verification Procedure 1.0 of the Protocol