



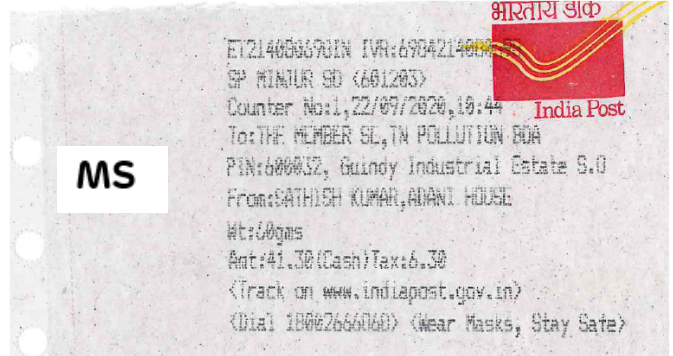
Ports and
Logistics

AECTPL/TNPCB/2020-21/28

Date: 21/09/2020

To,

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



Dear Sir,

Sub: Submission of Environmental Statement (Form V) for the financial year ending 31st March, 2020 of Adani Ennore Container Terminal Private Limited, Chennai

Ref: 1. Consent Order No. 1808111676581 under Water Act dated 23.08.2018

2. Consent Order No. 1808211676581 under Air Act dated 23.08.2018

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 31st March 2020.

Submitted for your kind information and records.

Thanking you,

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

Jai Khurana
21-09-2020
Jai Khurana
Chief Executive Officer



Enclosures: As above

Copy To:

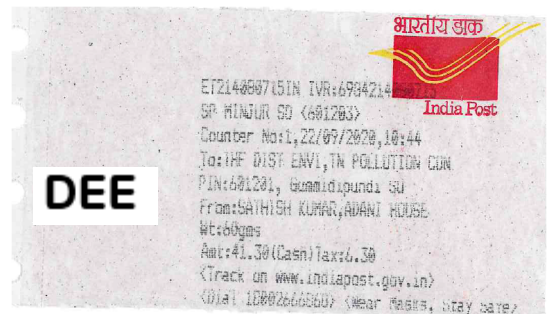
- 1) The Joint Chief Environmental Engineer, Tamilnadu Pollution Control Board, First Floor, 950/1, Poonamallee High Road, Arumbakkam, Chennai-600 106
- 2) The District Environmental Engineer, Tamil Nadu Pollution Control Board, Gummidipoondi – 601201.

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: U61200GJ2014PTCO78795



Sathish Kumar R

From: Sathish Kumar R
Sent: 21 September 2020 12:34
To: 'ecompliance-tn@gov.in'
Cc: Jai Khurana; Milind Sangtiani; 'sravan@kplmail.in'; Vijayasankar K; Prasanth A
Subject: Submission of Environmental Statement (Form V) for the financial year ending 31st March, 2020 of Adani Ennore Container Terminal Private Limited, Chennai- Reg
Attachments: AECTPL - FORM V - FY19-20.pdf
Importance: High

Dear Sir / Madam,

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, Chennai** in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31st March 2020.

Submitted for your kind information and records.

Thanks and Regards

Sathish Kumar R

Head - Environment

Marine Infrastructure Developer Private Limited | Adani Ennore Container Terminal Private Limited |
Adani Vizag Coal Terminal Private Limited | Adani Mormugao Port Terminal Private Limited |

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



Growth
with
Goodness

Our Values: Courage | Trust | Commitment



Form-V

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

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	:	Mr. Jai 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	:	Primary : Red Secondary : 1065 – Ports and Harbour, Jetties and Dredging Operations.
iii)	Production Capacity	:	Cargo Handling Capacity : 11.68 MMTPA of Container cargo
iv)	Year of establishment	:	2016
v)	Date of the last environmental statement submitted	:	Vide our Letter No. AECTPL/ENV2019-20/08 dated 20.09.2019

Part -B

WATER AND RAW MATERIAL CONSUMPTION

(i) Water Consumption

S.No	Water Consumption (m ³ /Calendar Day)	2018-2019	2019-2020
1	Domestic	7.33	10.93



(ii) Raw Material Consumption

S.No.	Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
			During the previous financial year (2018-19)	During the current financial year (2019-20)
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	7.20	-Nil-
	Total Suspended Solids (mg/l)	30	19.08	-Nil-
	BOD (3 days at 27°C) (mg/l)	20	13.25	-Nil-
b) Air	DG sets are provided as standby power source and were used during power failure. 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 Annexure 1			
Sulphur Dioxide (ppm)				
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 (2018-19)	During the current financial Year (2019-20)
(a) From Process	NIL	<ul style="list-style-type: none"> Used Oil (5.1) - 10 Tons Oil from Contaminated filter element (3.3) - 0.5 Tons Empty Oil barrel (33.1) - 0.5 Tons
(b) From Pollution control facilities	NA	NA

Part-E

SOLID WASTES

Total Quantity Generated			
Solid Waste		During the previous financial Year (2018-19)	During the current financial Year (2019-20)
a)	From process	NIL	NIL
b)	From pollution control facilities- STP	20 kgs	57.28 kgs
c)	1. Quantity recycled or reutilized within the Unit	20 kgs	57.28 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:

- 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 to Hazardous Waste Management Rules, 2016 (As amended).

P.S.



- The used batteries and E –waste are also stored in Integrated Waste Management Shed and disposed off through approved vendor.
- 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.
- All the non-hazardous wastes like paper, wood, metal scraps generated from the terminal are also collected, stored in the Integrated Waste Management Shed and will be handled as per 5R principle.

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 waste water 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. STP treated water is used for Gardening purpose, thereby reducing freshwater consumption. The total cost spent on STP operation during the year 2019-20 is Rs. 3.60 Lakhs.
- Regular Environmental monitoring is carried out through NABL accredited laboratory. All the monitored environmental parameters are well within the specified limit & the details of monitored data is regularly submitted to TNPCB, CPCB, MoEF&CC and other concerned authorities.
- Unit is continuously developing and maintaining green belt within port premises.
- Implemented Integrated Waste Management System (IWMS) for managing all types of wastes in line with 5R principle.



R. &

Part-H

ADDITIONAL MEASURES/INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION, PREVENTION OF POLLUTION.

	Description	
Regular Expenditure (cost in INR lakhs/year)		
1	Environmental monitoring of MOEF recognized third party	7.8
2	Green belt & Horticulture development	22.14
3	Annual maintenance contractor of STP operation	4.20
4	Operation & Maintenance of Integrated Waste Management System	2.40

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.
- Energy Conservation Committee to measure the amount of energy consumed and take actions to reduce the energy consumed through port operations
- Carried out mass Tree Plantation of 1000 saplings through "Woodlot Planting Technique".
- 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
- Single use and throwaway plastics completely banned inside the port premises.

Date:21.09.2020

(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.



Annexure - 1

AECTPL- STACK MONITORING (April'2019 to March'2020)																
Location		DG 1500KVA														
Month & Year		I	II	I	II	I	I	Aug-19	Sep-19	Oct-19	I	I	Dec-19	Jan-20	Feb-20	Mar-20
S.No.	Parameters	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
1	Stack Temperature, °C	222	210	217	226	215	232	243	246	240	229	235	239			
2	Flue Gas Velocity, m/s	16.5	17.45	18.01	19.23	20.14	21.56	23	21.19	20.03	22.43	21.19	21.86			
3	Sulphur Dioxide, mg/Nm ³	7.5	7	7.9	8.3	7.7	7.2	8	6.8	7.6	7.1	7.8	8.3			
4	NOX (as NO ₂) in ppmv	125	119	125	131	124	140	157	152	143	128	137	140			
5	Particular matter, mg/Nm ³	31.6	28.9	31.2	33.4	31.3	32.8	30	33.6	29.8	27.5	29.1	33.6			
6	Carbon Monoxide, mg/Nm ³	64	69	74	80	74	79	71	75	64	69	77	79			
7	Gas Discharge, Nm ³ /hr	4476	4839	4923	5162	5528	5692	5846	5470	5230	5985	5587	5719			
AECTPL- STACK MONITORING (April'2019 to March'2020)																
Location		DG 1500KVA														
Month & Year		II	III	II	II	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
S.No.	Parameters	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
1	Stack Temperature, °C	214	201	212	220	229	237	229	239	232	237	245	230			
2	Flue Gas Velocity, m/s	17.21	15.98	17.42	18.67	19.58	20.41	22	22.74	21.75	20.56	21.81	20.54			
3	Sulphur Dioxide, mg/Nm ³	6.9	6.2	7.5	8	9.1	8	7	8.1	7.6	7.5	8.5	7.4			
4	NOX (as NO ₂) in ppmv	120	107	119	128	136	144	150	141	143	139	142	133			
5	Particular matter, mg/Nm ³	34.2	30.5	29	31.9	30.5	33.1	31	32.4	29.8	29.7	31.4	32.8			
6	Carbon Monoxide, mg/Nm ³	55	63	71	78	72	82	65	68	64	74	70	74			
7	Gas Discharge, Nm ³ /hr	4734	4516	4811	5073	5225	5361	5785	5949	5230	5400	5640	5470			



Q-8