



Ports and  
Logistics

Ref No: AMPTPL/2022/ 878

Date: 28.09.2022

To

Additional Chief Conservator of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (SZ), Kendriya Sadan,  
4th Floor, E&F Wings, 17th Main Road,  
Koramangala II Block, Bangalore-560034 (Karnataka)  
rosz.bng-mefcc@gov.in

**Sub: Submission of Environmental Statement (Form-V) for the FY 2021-22.**

**Ref: Consent Order No. 12/2019-PCB/347405/R0002737 dated 24.03.2020**

Respected Sir,

With reference to the captioned subject and cited references above, we submit herewith the Environmental Statement of **M/s Adani Mormugao Port Terminal Private Limited, Goa** in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31<sup>st</sup> March 2022.

Submitted for your kind information and records.

Thanking You

**For Adani Mormugao Port Terminal Private Limited,**

  
**Authorized Signatory**

Adani Mormugao Port Terminal Pvt. Ltd.  
Sub Station Building  
Near Gate No.2 of MPT  
Mormugao, Goa-403803, India  
CIN No. U61100GJ2009PTC057727

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## Vibhor Srivastava

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**From:** Vibhor Srivastava  
**Sent:** 30 September 2022 18:06  
**To:** Regional Office Bangalore  
**Subject:** Reg: Form V\_AMPTPL\_Goa\_FY 21-22  
**Attachments:** Form V - 2021\_22\_AMPTPL\_MoEF&CC.pdf

Respected Sir,

With reference to the captioned subject and cited references above, we submit herewith the Environmental Statement of **M/s Adani Mormugao Port Terminal Private Limited (Attached)**, in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31<sup>st</sup> March 2022.

Submitted for your kind information and records.

Regards,

**Vibhor Srivastava**

Assistant Manager – Environment,

Address : Adani Mormugao Port Terminal Pvt. Ltd. Sub Station Building

Near Gate No. 2 of Mormugao Port Trust, Mormugao, Goa, 403803,India

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**adani**

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Welcome ADANI MURMUGAO PORT TERMINAL PVT. LTD Date : 28-9-2022

**Application No : 1470909**

You have successfully submitted Environmental Statement for this duration 2021-2022.  
[View Environment Statement](#)



## GOA STATE POLLUTION CONTROL BOARD

### FORM V

(See Rule 14)

Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.

#### PART A

- (i) Name and address of the owner/ occupier of the industry operation or process : ADANI MURMUGAO PORT TERMINAL PVT. LTD
- (ii) Industry category Primary-(STC Code) : RED, Ports and harbour, jetties and dredging operations  
Secondary-(STC Code)
- (iii) Production capacity : 5.2 Million Tonnes

Production Name	Production Capacity	Production Unit
Handling of Coal	5.2	Million Tonnes/Year

- (iv) Year of establishment : 2013
- (v) Date of the last environment statement submitted : 28/09/2022

#### PART B

##### 1. Water consumption m<sup>3</sup>/ d

Process :

Cooling :

Domestic :

Name of products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Handling of Coal	0.013 m <sup>3</sup> /MT	0.012 m <sup>3</sup> /MT

##### 2. Raw material consumption

Name of raw materials	Name of products	Consumption of raw material per unit	
		During the previous financial year	During the current financial year
Nil	Nil	Nil	Nil

\*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.

#### PART C

Pollution discharged to environment/ unit of output.



Pollution	Quantity of pollutants discharged(mass/day)	Concentration of pollutants in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons
Water			
Water	No pollutant discharged to environment		
Air			
Air	DG sets are provided as standby power source and were used during power failure. The height of DG stacks are as per CPCB/GSPCB standards. All the monitored parameters are within standards.		
Air	DG STACK 1 (2000 KVA) - June 2021	PM - 24.56 mg/Nm <sup>3</sup> , NOx - 31.55 ppm, CO - 18.08 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.022%	
Air	DG STACK 1 (2000 KVA) - Sep 2021	PM - 22.42 mg/Nm <sup>3</sup> , NOx - 35.59 ppm, CO - 25.31 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.026%	
Air	DG STACK 1 (2000 KVA) - Dec 2021	PM - 25.61 mg/Nm <sup>3</sup> , NOx - 31.42 ppm, CO - 22.51 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.020%	
Air	DG STACK 1 (2000 KVA) - Mar 2022	PM - 27.81 mg/Nm <sup>3</sup> , NOx - 33.44 ppm, CO - 24.54 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.022%	
Air	DG STACK 2 (2000 KVA) - June 2021	PM - 20.42 mg/Nm <sup>3</sup> , NOx - 33.48 ppm, CO - 17.18 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.021%	
Air	DG STACK 2 (2000 KVA) - Dec 2021	PM - 23.33 mg/Nm <sup>3</sup> , NOx - 28.45 ppm, CO - 18.32 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.020%	

Air	DG STACK 2 (2000 KVA) - Mar 2022	PM - 25.62 mg/Nm <sup>3</sup> , NOx - 30.58 ppm, CO - 21.24 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.025%	-
Air	DG STACK 3 (380 KVA) - June 2021	PM - 0.0021 g/kw-hr, NOx - 0.0064 g/kw-hr, CO - 0.0015 g/kw-hr, NMHC - BDL, SO <sub>2</sub> - 0.0007 kg/hr	-
Air	DG STACK 3 (380 KVA) - Sep 2021	PM - 0.0022 g/kw-hr, NOx - 0.0054 g/kw-hr, CO - 0.0019 g/kw-hr, NMHC - BDL, SO <sub>2</sub> - 0.0008 kg/hr	-
Air	DG STACK 3 (380 KVA) - Dec 2021	PM - 0.0020 g/kw-hr, NOx - 0.0053 g/kw-hr, CO - 0.0017 g/kw-hr, NMHC - BDL, SO <sub>2</sub> - 0.0006 kg/hr	-
Air	DG STACK 3 (380 KVA) - Mar 2022	PM - 0.0025 g/kw-hr, NOx - 0.0057 g/kw-hr, CO - 0.0020 g/kw-hr, NMHC - BDL, SO <sub>2</sub> - 0.0006 kg/hr	-
Air	DG STACK 2 (2000 KVA) - Sep 2021	PM - 26.33 mg/Nm <sup>3</sup> , NOx - 28.45 ppm, CO - 18.32 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.020%	-

Name of Pollutants : .

#### PART D Hazardous Wastes

(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
(a) From process	A). Cat. 5.1 Used Oil – 2.95 MT B). Cat. 5.2 Cotton Waste contaminated with Oil – 1.08 MT	A). Cat. 5.1 Used Oil – 2.94 MT B). Cat. 5.2 Cotton Waste contaminated with Oil – 0.28 MT C). Cat 33.1 Empty Barrels – 0.26 MT
(b) From pollution control facilities	Nil	Nil

#### PART E Solid Wastes

	Total Quantity	
	During the previous financial year	During the current financial year
(a) From process	Nil	Nil
(b) From pollution control facility	Nil	Nil



(c)(1) Quantity recycled or re-utilised within the unit	Food Waste - 0.379 MT (In OWC)	Food Waste - 2.35 MT (In OWC)
(2) Sold	Nil	Nil
(3) Disposed	Food Waste - 1.203 MT	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 waste includes used oil (Cat 5.1), Cotton waste contaminated with oil (Cat 5.2). & Empty Barrels (Cat 33.1). Used oil and the oil soaked cotton waste generated during various maintenance activities are collected in barrels kept in earmarked covered hazardous waste storage area as per the provisions of Hazardous Waste Management Rules, 2016 as amended & disposed of through GSPCB authorized / registered recycler.

- The used batteries and E -waste also stored in workshop storage area and disposed through approved vendor in line to E-waste Management Rules, 2016 as amended..
- Hazardous waste return in Form 4 was submitted in line with the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016.
- E-waste return in Form 3 was submitted in line with the E-waste Management Rules 2016
- Solid Waste includes mainly domestic waste (office & kitchen waste) which is fed in Organic Waste Composter (In FY 21-22 – 2.35 MT of food waste was fed into OWC).

### PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production All the domestic waste water generated at site is treated at existing sewage treatment plant located at PWD Baina. Unit has developed adequate green belt within port premises. .

### PART H

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution • Unit is undertaking Regular Environmental Monitoring at port & surrounding area through MoEF&CC recognized laboratory. All the monitored environmental parameters are found well within the standards prescribed & the details of monitored data is regularly submitted to GSPCB, CPCB, MoEF&CC and other concerned authorities.

- Unit has also installed Continuous Ambient Air Quality Monitoring System (CAAQMS) for the parameters CO, SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>10</sub> & PM<sub>2.5</sub> and the monitored real time data is connected with GSPCB server.
- Coal Stacks are kept covered with tarpaulin at all time, except during loading & unloading operations and adequate water Sprinkling is carried out regularly during loading and unloading operations.
- Unit has also provided dump pond and conveyance channel for collection of runoff generated from the coal yard.
- Unit has provided Sprinklers at coal yard & conveyor system and carrying out regular water sprinkling to control the fugitive dust. Wind screen covered with agronet/ jute cloth is provided around the periphery of coal yard.
- Unit has installed 2 cameras in coal stack yard and its online connectivity has been provided to GSPCB.
- As a precautionary measure an anemometer has been installed along with a hooter on Substation building and three different alert levels have been configured in PLC based on the Wind speed as follows:
  - For 25km/h to 27.99km/h - Hooter blows for 5 Seconds followed by a 1 Second Stop and the same repeats.
  - For 28km/h to 29.99km/h - The Hooter blows for 2 Seconds followed by a 1 second stop and the same repeats.

- For Above 30km/h - The Hooter continuously blows without any stop.
- Unit has taken continuous steps for developing green belt area within port premises. Vertical garden has also been developed as part of Environment Initiatives.

## PART I

Any other particulars for improving the quality of the environment • Handling of all types of wastes in line with 5R (Reduce, Reuse, Recycle, Recover and Reprocess )Principle.

- Integrated Management System (ISO 9001:2015, 14001:2015, 45001:2018, 27001:2013 and ISO 50001:2018) certified Port.
- Port has been certified as “Zero Waste to Landfill port” by CII Delhi.
- AMPTPL is 5S Certified Port by National Productivity Council (NPC).
- AMPTPL is bestowed with the top honors and the details of accolades received during the year 2021-22 are mentioned here under;
  - o “Gold Award” in services sector for outstanding achievement in Energy Efficiency 2021 by Apex India Foundation.
  - o “Platinum Award” in Service Sector for Outstanding Achievement in Environmental Excellence 2020” by Apex India Foundation.
  - o “Gold Award” in Service Sector for Outstanding Achievement in Environmental Excellence 2019” by Apex India Foundation.
  - o “Gold Award” in services sector for outstanding achievement in Environment preservation in 10th Exceed Environment Award and Conference 2021.
  - o “Gold Award” in services sector for outstanding achievement in Environment preservation in 12th Exceed Environment Award and Conference 2022.
- Baffle walls have been constructed in Dump ponds to increase sedimentation of Cargo.
- Community Development : AMPTPL provided two interactive study touch screen panels to local Goa school for students at a cost of Rs. 3.3 Lakhs.

Remarks : Nil .