



Ports and  
Logistics

Ref No: AMPTPL/2021/ 694

Date: 24.09.2021

To,

**Member Secretary**

Goa State Pollution Control Board  
Nr. Pilerne Industrial Estate  
Opp. Saligao Seminary  
Saligao - Bardez  
Goa - 403511

Kind Attn: Dr. Shamila Monteiro

**Sub: Submission of Environmental Statement (Form-V) for the FY 2020-21.**

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

Respected Madam,

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**, 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

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

  
**Authorized Signatory**

**CC:** Environment Cell, Mormugao Port Trust.

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

Tel +91 832 2579200  
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www.adani.com

Registered Office: Adani Corporate House", Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad 382421, Gujarat

## Vibhor Srivastava

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**From:** Vibhor Srivastava  
**Sent:** 28 September 2021 13:39  
**To:** 'rosz.bng-mefcc@gov.in'  
**Subject:** Form V\_AMPTPL\_Goa\_FY 20-21  
**Attachments:** Form V - 2020\_21\_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 2021.

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

Office: **+91 832 25 79326** | or Mob: **+916359897585** | Email: [Vibhor.Srivastava@adani.com](mailto:Vibhor.Srivastava@adani.com)



Growth  
with  
Goodness

Our Values: Courage | Trust | Commitment



# adani

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To,

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Goa State Pollution Control Board  
Nr. Pilerne Industrial Estate  
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मर्मुगाओ पोर्ट ट्रस्ट  
Mormugao Port Trust  
मुख्य अभियंता का कार्यालय  
Office of the Chief Engineer  
दिनांक  
12/9/21 Date: 28/9/21

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**complaints or query**



Welcome ADANI MURMUGAO PORT TERMINAL PVT. LTD

Date : 24-9-2021

Application No : **1059985**

You have successfully submitted Environmental Statement for this duration 2020-2021.  
[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 : Mili Liter

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 : 21/09/2020

#### 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	0.027 m <sup>3</sup> /MT	0.013 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.

<b>Pollution</b>	<b>Quantity of pollutants discharged(mass/day)</b>	<b>Concentration of pollutants in discharges(mass/volume)</b>	<b>Percentage of variation from prescribed standards with reasons</b>
<b>Water</b>			
Water	No pollutant discharged to environment	-	-
<b>Air</b>			
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			
Air	DG STACK 1 (2000 KVA) - June 2020	PM - 16.75 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 30.76 ppm, CO - 16.59 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.018%	-
Air	DG STACK 1 (2000 KVA) - Sep 2020	PM - 26.52 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 36.35 ppm, CO - 18.63 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.020%	-
Air	DG STACK 1 (2000 KVA) - Dec 2020	PM - 23.41 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 30.4 ppm, CO - 20.14 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.020%	-
Air	DG STACK 1 (2000 KVA) - Mar 2021	PM - 27.52 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 34.5 ppm, CO - 19.29 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.018%	-
Air	DG STACK 2 (2000 KVA) - June 2020	PM - 15.41 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 28.54 ppm, CO - 13.26 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.010%	-
Air	DG STACK 2 (2000 KVA) - Sep 2020	PM - 20.83 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 32.85 ppm, CO - 17.18 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.016%	-

Air	DG STACK 2 (2000 KVA) - Dec 2020	PM - 18.76 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 13.54 ppm, CO - 22.51 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.016%	-
Air	DG STACK 2 (2000 KVA) - Mar 2021	PM - 21.44 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 30.45 ppm, CO - 23.29 mg/Nm <sup>3</sup> , NMHC - BDL, Sulfur in fuel - 0.016%	-
Air	DG STACK 3 (380 KVA) - June 2020	PM - 0.0016 g/kw-hr, NO <sub>x</sub> - 0.0058 g/kw-hr, CO - 0.0013 g/kw-hr, HC - BDL, SO <sub>2</sub> Kg/hr - 0.0007	-
Air	DG STACK 3 (380 KVA) - Sep 2020	PM - 0.0019 g/kw-hr, NO <sub>x</sub> - 0.0059 g/kw-hr, CO - 0.0014 g/kw-hr, HC - BDL, SO <sub>2</sub> Kg/hr - 0.0009	-
Air	DG STACK 3 (380 KVA) - Dec 2020	PM - 0.016 g/kw-hr, NO <sub>x</sub> - 0.0053 g/kw-hr, CO - 0.0019 g/kw-hr, HC - BDL, SO <sub>2</sub> Kg/hr - 0.0007	-
Air	DG STACK 3 (380 KVA) - Mar 2021	PM - 0.0019 g/kw-hr, NO <sub>x</sub> - 0.0061 g/kw-hr, CO - 0.0020 g/kw-hr, HC - BDL, SO <sub>2</sub> Kg/hr - 0.0008	-

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 – 1.62 MT B). Cat. 5.2 Cotton Waste contaminated with Oil - 0.226 MT	A). Cat. 5.1 Used Oil – 2.95 MT B). Cat. 5.2 Cotton Waste contaminated with Oil – 1.08 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	Nil	0.379 MT

(2) Sold	Nil	Nil
(3) Disposed	Nil	1.203 MT

## **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) and cotton waste contaminated with oil (Cat 5.2). 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 disposed through Mormugao Municipal Council and also fed in Organic Waste Composter (In FY 20-21 - 1.203 MT of food waste was disposed to MMC and 0.379 MT 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 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.

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## **PART I**

Any other particulars for improving the quality of the environment •Integrated housekeeping management is undertaken at top priority to maintain neat and clean working environment in the plant area.

•Integrated Management System (ISO 9001:2015, 14001:2015, 45001:2018 and ISO 50001:2018) certified Port.

•Port has been certified as “Single Use Plastic Free Port” by CII Delhi.

•AMPTPL is 5S Certified Port by National Productivity Council (NPC).

•Baffle walls have been constructed in Dump ponds to increase sedimentation of Cargo.

•Working towards achieving “Zero Waste Inventory” as per our Group Environment Policy and all wastes are being handled in line with 5R Principle.

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Remarks : .