

## Ports and Logistics

Ref No: AMPTPL/2019/217

Date: 25.09.2019

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 2018-19.**

Respected Madam,

With reference to the above subject, please find enclosed herewith the Environmental Statement (Form-V) for the FY 2018-19.

This is for your information and records please.

Thanking You

Yours Sincerely

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

**Authorized Signatory**

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

*Acknowledgement copy received from GSPCB portal is attached for reference. Pijush*

# Online Consent Management & Monitoring System


Ministry of Environment, Forest and Climate Change  
Government of India



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Welcome ADANI MURMUGAO PORT TERMINAL PVT. LTD Date : 25-9-2019

**Application No : 327865**

You have successfully submitted Environmental Statement for this duration 2018-2019.  
[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 Secondary-(STC Code) dredging operations
- (iii) Production capacity : 4.8 Million Tonnes

Production Name	Production Capacity	Production Unit
Handling of Coal	4.8	Million Tonnes/Year

(iv) Year of establishment :

(v) Date of the last environment statement submitted :

#### PART B

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

Process : NIL

Cooling : 315

Domestic : 34

Name of products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Handling of Coal	0.086 m <sup>3</sup> / MT	0.030 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	NA	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>	<b>No effluent discharged to environment</b>		
Water	No effluent discharged to the environment	-	-
<b>Air</b>			
Air	DG sets are provided as standby power source and were used during power failure. The Height of DG stacks as per CPCB/GSPCB Standards. All the monitored parameters are within standards.		
Air	DG STACK 1 (2000 KVA)- June-2018	PM-22.75 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 39.05 ppm, CO- 18.32 mg/Nm <sup>3</sup> , NMHC- BDL, Sulfur in fuel- 0.015%	
Air	DG STACK 1 (2000 KVA)- Sep-2018	PM-25.85 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 32.58 ppm, CO- 16.03 mg/Nm <sup>3</sup> , NMHC- BDL, Sulfur in fuel- 0.015%	
Air	DG STACK 1 (2000 KVA)- Dec-2018	PM-21.82 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 35.23 ppm, CO- 15.56 mg/Nm <sup>3</sup> , NMHC- BDL, Sulfur in fuel- 0.018%	
Air	DG STACK 3 (380 KVA)- Mar-2019	PM- 0.0012 g/kw-hr, NO <sub>x</sub> -0.0018 g/kw-hr, CO-0.0010 g/kw-hr, HC- BDL, SO <sub>2</sub> - 0.0007 Kg/hr	
Air	DG STACK 1 (2000 KVA)- Mar-2019	PM-17.86 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 29.34 ppm, CO- 18.74 mg/Nm <sup>3</sup> , NMHC- BDL, Sulfur in fuel- 0.018%	
Air	DG STACK 2 (2000 KVA)- Sep-2018	M-19.40 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 35.32 ppm, CO- 13.74 mg/Nm <sup>3</sup> , NMHC- BDL, Sulfur in fuel- 0.013%	

Air	DG STACK 2 (2000 KVA)- Dec-2018	PM-26.63 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 30.35 ppm, CO-18.50 mg/Nm <sup>3</sup> , NMHC- BDL, Sulfur in fuel- 0.015%	
Air	DG STACK 3 (380 KVA)- Sep-2018	PM- 0.0008 g/kw-hr, NO <sub>x</sub> -0.0018 g/kw-hr, CO-0.0007 g/kw-hr, HC- BDL, SO <sub>2</sub> - 0.0004 Kg/hr	
Air	DG STACK 3 (380 KVA)- Dec-2018	PM- 0.0013 g/kw-hr, NO <sub>x</sub> -0.0021 g/kw-hr, CO-0.0011 g/kw-hr, HC- BDL, SO <sub>2</sub> - 0.0003 Kg/hr	
Air	DG STACK 2 (2000 KVA)- June-2018	PM-27.91 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 37.30 ppm, CO-16.03 mg/Nm <sup>3</sup> , NMHC- BDL, Sulfur in fuel- 0.013%	
Air	DG STACK 2 (2000 KVA)- Mar-2019	PM-23.82 mg/Nm <sup>3</sup> , NO <sub>x</sub> - 26.45 ppm, CO-16.30 mg/Nm <sup>3</sup> , NMHC- BDL, Sulfur in fuel- 0.015%	
Air	DG STACK 3 (380 KVA)- June-2018	PM- 0.0010 g/kw-hr, NO <sub>x</sub> -0.0024 g/kw-hr, CO-0.0009 g/kw-hr, HC- BDL, SO <sub>2</sub> - 0.0005 Kg/hr	

**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	2 MT Used Oil	1.08 MT Used Oil
(b) From pollution control facilities	NA	NA

**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	NIL
(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 waste includes used oil and cotton waste contaminated with oil. 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 & disposed of through GSPCB authorized – registered recycler.

- The used batteries and E -waste also stored in workshop storage area and disposed of through approved vendor.
- 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 authorized vendor.

## **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 Headland Sada. The treated water is being reused within port premises. 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 of port & surrounding area through MoEF&CC recognized laboratory. All the required environmental parameters are well within specified limit & the details of monitored data is regularly submitting 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 are being connected with GSPCB server.
- Coal Stacks are kept covered with tarpaulin at all time, except during loading and unloading and adequate Sprinkling is carried out continuously during loading and unloading.
- Unit has installed multimedia filter system which receives the treated water from MPT Sewage tank. The filtered water is used for plantation & gardening activities. Unit has also provided dump pond and conveyance channel for collection of runoff generated from coal yard.
- Unit has provided Sprinklers at coal yard & conveyor system and carrying out regular water sprinkling to control the dust exposure. 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 • Integrated housekeeping management is undertaken at top priority to maintain neat and clean working environment in the plant area.

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