

adani

Ports and Logistics

Ref No: AMPTPL/2023/1023

Date: 27.09.2023

To

Additional Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (SZ), Kendriya Sadan,
4th Floor, E8-F Wings, 17th Main Road,
Koramangala II Block, Bangalore-560034 (Karnataka)
rosz.bng-mefcc@gov.in

Sub: Submission of Environmental Statement (Form-V) for FY 2022-23.

**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 Marmugao Port Terminal Private Limited, Goa** in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986 for the financial year ending 31st March 2023.

Submitted for your kind information and records.

Thanking You

For Adani Marmugao Port Terminal Private Limited,

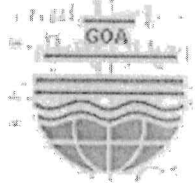

Authorized Signatory



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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) Secondary-(STC Code) RED, Ports and harbour, jetties and dredging operations
- (iii) Production capacity 5.2 Million Tons

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

- (iv) Year of establishment 2013
- (v) Date of the last environment statement submitted. 27/09/2023

PART B

1. Water consumption M3/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	0.012 m3/MT	0.013 m3/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 2022	PM - 24.34 mg/Nm ³ , NO _x - 29.41 ppm, CO- 22.13 mg/Nm ³ , NMHC - BDL, Sulfur in fuel - 0.026%	-
Air	DG STACK 1 (2000 KVA) - Sep 2022	PM - 28.62mg/Nm ³ , NO _x - 31.55 ppm, CO- 25.31 mg/Nm ³ , NMHC - BDL, Sulfur in fuel - 0.024%	-
Air	DG STACK 1 (2000 KVA) - Dec 2022	PM - 30.42 mg/Nm ³ , NO _x - 34.50 ppm, CO- 27.48 mg/Nm ³ , NMHC - BDL, Sulfur in fuel - 0.028%	-
Air	DG STACK 1 (2000 KVA) - Mar 2023	PM - 32.58 mg/Nm ³ , NO _x - 31.80 ppm, CO- 25.31 mg/Nm ³ , NMHC - BDL, Sulfur in fuel - 0.028%	-
Air	DG STACK 2 (2000 KVA) - June 2022	PM -21.52mg/Nm ³ , NO _x - 27.63 ppm, CO- 23.31 mg/Nm ³ , NMHC - BDL, Sulfur in fuel-- 0.024%	-
Air	DG STACK 2 (2000 KVA) - Sep 2022	PM - 26.62 mg/Nm ³ , NO _x - 31.55 ppm, CO- 23.31 mg/Nm ³ , NMHC - BDL, Sulfur in fuel - 0.024%	-
Air	DG STACK 2 (2000 KVA) - Dec 2022	PM - 26.35 mg/Nm ³ , NO _x - 32.32 ppm, CO- 25.31 mg/Nm ³ , NMHC - BDL, Sulfur in fuel - 0.026%	-

Air	DG STACK 2 (2000 KVA) - Mar 2023	PM - 21.84 mg/Nm ³ , NO _x - 30.45 ppm, CO- 22.51 mg/Nm ³ , NMHC - BDL, Sulfur in fuel - 0.026%	
Air	DG STACK 3 (380 KVA) - June 2022	PM - 0.0021g/kw-hr, NO _x - 0.0051 g/kw-hr, CO - 0.0023 g/kw-hr, NMHC - BDL, SO ₂ - 0.0007 kg/hr	-
Air	DG STACK 3 (380 KVA) - Sep 2022	PM-0.0022g/kw-hr, NO _x - 0.0053 g/kw-hr, CO - 0.0021 g/kw-hr, NMHC - BDL, SO ₂ - 0.0005 kg/hr	-
Air	DG STACK 3 (380 KVA) - Dec 2022	PM-0.0025g/kw-hr, NO _x - 0.0058 g/kw-hr, CO - 0.0023 g/kw-hr, NMHC - BDL, SO ₂ - 0.0007 kg/hr	-
Air	DG STACK 3 (380 KVA) - Mar 2023	PM-0.0023g/kw-hr, NO _x - 0.0068g/kw-hr, CO- 0.0023g/kw-hr, NMHC- BDL, SO ₂ -0.0005 kg/hr	-

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- 2.94 MT B). Cat. 5.2 Cotton Waste contaminated with Oil- 0.28 MT C). Cat 33.1 Empty Barrels - 0.26 MT	A). Cat. 5.1 Used Oil- 7.44 MT B). Cat. 5.2 Cotton Waste contaminated with Oil- 0.860 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-utilized within the unit	Food Waste - 2.35 MT (In OWC)	Food Waste - 2.30 MT (In OWC)
(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 (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 22-23 - 2.30 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 wastewater 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 are being regularly submitted to GSPCB, CPCB, MoEF&CC and other concerned authorities.

- AMPTPL has also installed Continuous Ambient Air Quality Monitoring System (CAAQMS) for the parameters CO, SO₂, NO_x, PM₁₀ & PM_{2.5} and the monitored real time data is connected with GSPCB server.
- Coal Stacks are always kept covered with tarpaulin, except during loading & unloading operations and adequate water Sprinkling is carried out on regular intervals during loading and unloading operations.
- AMPTPL has also provided dump ponds (settlement ponds) and conveyance channel for collection of runoffs generated from the coal yard.
- AMPTPL has provided Sprinklers at coal yard & conveyor system and carrying out water sprinkling at regular intervals to control the fugitive dust. The wind screen around the periphery of coal yard is covered with agro net/ jute cloth.
- AMPTPL 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.
 - AMPTPL has taken continuous steps for developing the green belt area within port premises.
- Vertical gardens have 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 waste 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.
- AMPTPL 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.
- "Gold Award" in services sector for outstanding achievement in Energy Efficiency 2021 by Apex India Foundation.
- "Platinum Award" in Service Sector for Outstanding Achievement in Environmental Excellence 2020" by Apex India Foundation.
- "Gold Award" in Service Sector for Outstanding Achievement in Environmental Excellence 2019" by Apex India Foundation.
- "Gold Award" in services sector for outstanding achievement in Environment preservation in 10th Exceed Environment Award and Conference 2021.
- "Gold Award" in services sector for outstanding achievement in Environment preservation in 12th Exceed Environment Award and Conference 2022.
- "Bronze category accreditation" in implementation of Adani Workplace Management System (AWMS) in 2nd Cycle Adani Workplace Management Academy application 2023.
- Baffle walls have been constructed in Dump ponds to increase sedimentation of Cargo.

Remarks : Nil .