



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2020

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000024014

Submitted Date

25-06-2020

Company Information

Company Name

Adani Electricity Mumbai Limited, Adani Dahanu Thermal Power Station (ADTPS)

Application UAN number

0000050663

Address

Adani Dahanu Thermal Power station (ADTPS), Taluka - Dahanu, Dist- Palghar, Pin -401608

Plot no

339

Taluka

Dahanu

Village

Agwan

Capital Investment (In lakhs)

188748.00

Scale

Large

City

Dahanu

Pincode

401608

Person Name

Sanajy V. Patil

Designation

Head (EMG)

Telephone Number

02230386819

Fax Number

02230386999

Email

sanjay.v.patil@adani.com

Region

SRO-Tarapur II

Industry Category

Red

Industry Type

R48 Thermal Power Plants

Last Environmental statement submitted online

yes

Consent Number

BO/CAC-Cell/UAN0000050663/CAC-1812001486

Consent Issue Date

24.12.2018

Consent Valid Upto

31.08.2023

Product Information

Product Name

Electricity generation

Consent Quantity

4380000 (500 MW)

Actual Quantity

3347423

UOM

Mwh

By-product Information

By Product Name

Grinded fine Ash

Consent Quantity

87600 (240 T/day)

Actual Quantity

1864

UOM

Ton/Y

1) Water Consumption in m3/day

Water Consumption for Process

Cooling

Domestic

All others

Total

Consent Quantity in m3/day

1980

1963200

1000

31300

1997480

Actual Quantity in m3/day

1886

1024371

806

17143

1044206

1) Effluent Generation in CMD / MLD

| Particulars | Consent Quantity | Actual Quantity | UOM |
|-----------------------------------|-------------------------|------------------------|------------|
| Daily quantity of Trade effluents | 1992900 | 1030586 | CMD |

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

| Name of Products (Production) | During the Previous financial Year | During the current Financial year | UOM |
|--------------------------------------|---|--|------------|
| Electricity generation | 0.009 | 0.002 | |

3) Raw Material Consumption (Consumption of raw material per unit of product)

| Name of Raw Materials | During the Previous financial Year | During the current Financial year | UOM |
|------------------------------|---|--|------------|
| Coal | 0.599 | 0.572 | |

4) Fuel Consumption

| Fuel Name | Consent quantity | Actual Quantity | UOM |
|------------------|-------------------------|------------------------|------------|
| LDO | 4148 | 470.09 | KL/A |

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**[A] Water**

| Pollutants Detail | Quantity of Pollutants discharged (kL/day) | Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour | Percentage of variation from prescribed standards with reasons | Standard | Reason |
|--------------------------|---|---|---|-----------------|---------------|
| | Quantity | Concentration | %variation | | |
| pH | NA | 7.70 | 0 | 5.5-9.0 | NA |
| Suspended Solids | 0.609 | 15.8 | 0 | 100 | NA |
| BOD | 0.085 | 2.2 | 0 | 30 | NA |
| COD | 0.123 | 3.2 | 0 | 250 | NA |
| Oil & Grease | 0 | 0 | 0 | 10 | NA |
| TDS | 35.64 | 925 | 0 | 2100 | NA |

[B] Air (Stack)

| Pollutants Detail | Quantity of Pollutants discharged (kL/day) | Concentration of Pollutants discharged(Mg/NM3) | Percentage of variation from prescribed standards with reasons | Standard | Reason |
|-----------------------------------|---|---|---|-----------------|---------------|
| | Quantity | Concentration | %variation | | |
| Particulates (Unit-1) | 1108.2 | 44.7 | 0 | 100 mg/Nm3 | NA |
| Sulphurdioxide (SO2) (Unit-1) | 3274.9 | 132.1 | 0 | 600 mg/Nm3 | NA |
| Oxides of Nitrogen (NOx) (Unit-1) | 9081.1 | 366.3 | 0 | 600 mg/Nm3 | NA |
| Mercury (Hg) (Unit-1) | 0.09 | 0.004 | 0 | 0.03 mg/Nm3 | NA |
| Particulates (Unit-2) | 1250.0 | 50.2 | 0 | 100 mg/Nm3 | NA |
| Sulphurdioxide (SO2) (Unit-2) | 3252.0 | 130.6 | 0 | 600 mg/Nm3 | NA |
| Oxides of Nitrogen (NOx) (Unit-2) | 8906.8 | 357.7 | 0 | 600 mg/Nm3 | NA |
| Mercury (Hg) (Unit-2) | 0.07 | 0.003 | 0 | 0.03 mg/Nm3 | NA |

HAZARDOUS WASTES

1) From Process

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---------------------------------------|---|--|------------|
| 5.1 Used or spent oil | 14070 | 11130 | Ltr/A |
| 5.2 Wastes or residues containing oil | 2360 | 1260 | Kg/Annum |
| 15.1 Asbestos-containing residues | 270 | 380 | Kg/Annum |
| 0 | 73 | 12 | Nos./Y |

2) From Pollution Control Facilities

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|-----------------------------|---|--|------------|
| 0 | 0 | 0 | CMD |

SOLID WASTES

1) From Process

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---------------------------------|---|--|------------|
| Fly Ash | 564376 | 425076 | MT/A |

2) From Pollution Control Facilities

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---------------------------------|---|--|------------|
| NA | 0 | 0 | set/month |

3) Quantity Recycled or Re-utilized within the unit

| Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|-------------------|---|--|------------|
| 0 | 0 | 0 | CMD |

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

| Type of Hazardous Waste Generated | Qty of Hazardous Waste | UOM | Concentration of Hazardous Waste |
|--|-------------------------------|------------|---|
| 5.1 Used or spent oil | 11130 | Ltr/A | NA |
| 5.2 Wastes or residues containing oil | 1260 | Kg/Annum | NA |
| 15.1 Asbestos-containing residues | 380 | Kg/Annum | NA |
| 0 | 12 | Nos./Y | NA (Used batteries) |

2) Solid Waste

| Type of Solid Waste Generated | Qty of Solid Waste | UOM | Concentration of Solid Waste |
|--------------------------------------|---------------------------|------------|-------------------------------------|
| NA | NA | CMD | NA |

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

| Description | Reduction in Water Consumption (M3/day) | Reduction in Fuel & Solvent Consumption (KL/day) | Reduction in Raw Material (Kg) | Reduction in Power Consumption (KWH) | Capital Investment(in Lacs) | Reduction in Maintenance(in Lacs) |
|--------------------|--|---|---------------------------------------|---|------------------------------------|--|
| NA | NA | NA | NA | NA | NA | NA |

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection**Environmental Protection Measures****Capital Investment (Lacks)**

0

0

0

[B] Investment Proposed for next Year**Detail of measures for Environmental Protection****Environmental Protection Measures****Capital Investment (Lacks)**

0

0

0

Any other particulars in respect of environmental protection and abatement of pollution.**Particulars**

Total expenditure for 1) O & M of ESP - 16.48 Lakh, 2) O & M of FGD- 25.1 Lakh 3) O & M of CEMS - 31.97 Lakh 4) O & M of Sewage treatment plant (STP)- 32.8 Lakh,5) O & M of CAAQMS - 50.0 Lakh 6) Total plantation done during the year is 26137 Nos.

Name & Designation

Sanjay V Patil, Head (EMG)