



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

Environmental Audit Report for the financial Year ending the 31st March 2019

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000016934

### Submitted Date

19-07-2019

### Company Information

#### Company Name

The TATA Power Co Ltd,Trombay Thermal Power Station

#### Application UAN number

IIN1145000

#### Address

Mahul Road, Chembur Mumbai

#### Plot no

Mahul Road

#### Taluka

Kurla

#### Village

Mahul

#### Capital Investment (In lakhs)

40365681316

#### Scale

large

#### City

Mumbai

#### Pincode

400074

#### Person Name

Anil Jain

#### Designation

Chief-Trombay Station

#### Telephone Number

9223345941

#### Fax Number

02266687066

#### Email

akjain@tatapower.com

#### Region

SRO-Mumbai III

#### Industry Category

Red

#### Industry Type

R48 Thermal Power Plants

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/BO/CAC-Cell/EIC  
NoTN-5575-15/CAC/CC-9338

#### Consent Issue Date

22.7.2016

#### Consent Valid Upto

31.8.2021

### Product Information

#### Product Name

Power Generation

#### Consent Quantity

1580

#### Actual Quantity

734

#### UOM

Mwh

### By-product Information

#### By Product Name

NA

#### Consent Quantity

NA

#### Actual Quantity

NA

#### UOM

MT/A

### 1) Water Consumption in m3/day

#### Water Consumption for Process

#### Cooling

#### Domestic

#### All others

#### Total

#### Consent Quantity in m3/day

184800

4869600

300

3650

5058350

#### Actual Quantity in m3/day

12647

2124298

187

655

2137787

### 1) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Condensor Cooling	4869600	2124298	CMD
BA+FGD	184800	12647	CMD
Boiler Blowdown	1000	195	CMD
Domestic Effluent (STP)	275	149	CMD

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

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Power Generation Raw water	0.0361	0.0372	Mwh
Power Generation Sea water	132.98	120.59	Mwh

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

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Alum	1.285	1.065	MT/A
HCL	12.063	11.624	MT/A
Sodium Hydroxide	4.75	4.91	MT/A
Hydrazine	1.928	1.718	MT/A

### 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
LSHS	1204500	863.53	MT/A
COAL	3066000	2294388	MT/A
GAS	876000	306990	MT/A

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged (Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Ash Pond Effluent Suspended Solids	NA	29	-71	100	No variation
Condensor Cooling pH	NA	7.3	-1.7	9	No variation
DM BOD	NA	28	-72	100	No variation
DM COD	NA	62	-38	250	No variation
Sewage BOD	NA	24.6	-75.3	30	No variation
Sewage Suspended Solids	NA	33.5	-66.5	100	No variation
Boiler Blowdown oil and grease	NA	0	-10	10	No variation
Boiler Blowdown Iron content	NA	0.01825	-0.98175	1	No variation
Boiler Blowdown suspended Solids	NA	0	-100	100	No variation

DM Oil and Grease	NA	0	-10	10	No variation
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**[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Station SO2	13.38 T/day	NA	-43.01	24 MT/day	No Variation
Unit 5 SPM	39 Mg/Nm3	NA	-61	100mg/Nm3	No Variation
Unit 8 SPM	31Mg/Nm3	NA	-19	50 mg/Nm3	No Variation
Unit 7 NOx	16 ppm	NA	-134	150ppm	No Variation

**HAZARDOUS WASTES**

**1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	29.22	34.35	MT/A

**2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	NA	NA	MT/A

**SOLID WASTES**

**1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
E-Waste	18.6	7.26	MT/A
Bottom Ash	10478.54	8910	MT/A
Fly Ash	42423.97	41304	MT/A
Coal mill Reject	493.66	247.31	MT/A

**2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
NA	NA	NA	MT/A

**3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	Nil	Nil	KL/A

**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**

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	34.35	MT/A	Used lube oil

**2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
E-Waste	7.26	MT/A	Electical & Electronic equipments
Metal Scrap	1560	Ton/Y	Metal scrap
NA	0	Ton/Y	NA

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

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
Unit 5 ESP refurbishment	NA	NA	NA	NA	2000	NA

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

**[A] Investment made during the period of Environmental Statement**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Unit 5 ESP refurbished	To reduce stack Emission	2000

**[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
NA	NA	NA

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

**Particulars**

Tree Plantation done, bulbs and tubes replaced with LED lights,Transparent sheet installed to reduce Aux consumption. Heat rate reduction project taken up.

**Name & Designation**

Anil Jain