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-0000025063

Submitted Date
21-08-2020

Company Information

Company Name
The TATA Power Co Ltd, Trombay Thermal Power Station.

Application UAN number
IIN1145000

Address
Trombay Thermal Power Station, Mahul Road, Chembur, Mumbai.

Plot no
Mahul Road

Taluka
Kurla

Village
Mahul

Capital Investment (In lakhs)
40971434755.87

Scale
large

City
Mumbai

Pincode
400074

Person Name
Mr 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	*Consent Quantity*	*Actual Quantity*	*UOM*
Power GenerationW	1580	673	Mwh

By-product Information

By Product Name	*Consent Quantity*	*Actual Quantity*	*UOM*
NA	NA	NA	MT/A

1) Water Consumption in m3/day

Water Consumption for	*Consent Quantity in m3/day*	*Actual Quantity in m3/day*
Process	184800	9766
Cooling	4869600	2017886
Domestic	300	186
All others	3650	683
Total	5058350	2028531

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Condensor Cooling	4869600	2017886	CMD
BA+FGD	184800	9766	CMD
Boiler Blowdown	1000	167	CMD
Domestic Effluent (STP)	275	149	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
Power Generation Raw water	0.0372	0.0423	Mwh
Power Generation Sea water	120.59	124.93	Mwh

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
Alum	1.065	0.995	MT/A
HCL	11.624	11.9643	MT/A
Sodium Hydroxide	4.91	4.369	MT/A
Hydrazine	1.718	1.877	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
LSHS	1204500	515	MT/A
GAS	876000	234505	MT/A
COAL	3066000	2345232	MT/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		
	Quantity	Concentration	%variation	Standard	Reason
Ash Pond Effluent Suspended Solids	NA	27	-73	100	No variation
Condensor Cooling pH	NA	7.3	-1.7	9	No variation
DM BOD	NA	21	-79	100	No variation
DM COD	NA	50	-50	250	No variation
Sewage BOD	NA	18	-12	30	No variation
Sewage Suspended Solids	NA	28	-72	100	No variation
Boiler Blowdown oil and Grease	NA	0	-10	10	No variation
Boiler Blowdown Iron content	NA	0.01647	-9835	1	No variation
Boiler Blowdown suspended Solids	NA	0	-100	100	No variation

[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		
	Quantity	Concentration	%variation	Standard	Reason
Station SO2	14.18	NA	-40.93	24	No Variation
Unit 5 SPM	28	NA	-122	150	No Variation
Unit 8 SPM	29	NA	-71	100	No Variation
Unit 7 NOx	27	NA	-123	150	No Variation

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	34.35	26.56	MT/A
35.2 Spent ion exchange resin containing toxic metals	0	7.11	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
E-Waste	7.26	8.26	MT/A
Bottom Ash	8910	8033	MT/A
Fly Ash	41304	48353	MT/A
Coal Mill Reject	247.31	272.64	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	MT/A

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	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

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	26.56	MT/A	Used lube oil
35.2 Spent ion exchange resin containing toxic metals	7.11	MT/A	Resin

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
E-Waste	8.26	MT/A	Electrical & Electronic Equipment's
Scrap Metal	1071	MT/A	Metal Scrap

NA	NA	Ton/Y	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)*
NA	NA	NA

[B] Investment Proposed for next Year

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

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

Particulars

Tree Plantation done during environment week, More than 33% area under green cover. Bulbs and tubes replaced with LED lights,Transparent sheet installed to reduce Aux consumption. Heat rate reduction project taken up.

Name & Designation

Mr Anil Jain-Chief Trombay Station