



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-0000021762

Submitted Date

30-09-2019

Company Information

Company Name

RATTANINDIA POWER LTD.,(Formerly Known As Indiabulls Power Ltd.)

Application UAN number

000

Address

Plot No- D2 & D2(Part) Additional Industrial Area,MIDC,Nandgaonpeth,Amravati

Plot no

D2 & D2 (Part)

Taluka

Nandgaonpeht

Village

Wagholi

Capital Investment (In lakhs)

6882.28 Crore

Scale

Large

City

Amravati

Pincode

444901

Person Name

Mohammad Nisar

Designation

G.M

Telephone Number

0721-3982587

Fax Number

0721-3982584

Email

mohammad.nisar@rattanindia.com

Region

SRO-Amravati I

Industry Category

Red

Industry Type

R48 Thermal Power Plants

Last Environmental statement submitted online

yes

Consent Number

Format 1.0/BO/CAC-Cell/EIC.No.AM-6689-15/CAC-14013

Consent Issue Date

03.11.2015

Consent Valid Upto

31.08.2020.

Product Information

Product Name

Electricity Genration

Consent Quantity

11826000

Actual Quantity

4074109

UOM

Mwh

By-product Information

By Product Name

Nil

Consent Quantity

Nil

Actual Quantity

Nil

UOM

Mwh

1) Water Consumption in m3/day

Water Consumption for Process

Consent Quantity in m3/day

000

Actual Quantity in m3/day

000

Cooling

111292

27058

Domestic

720

557

All others

1218

208

Total

113230

27823

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
TRADE EFFLUENT	24019	2277	CMD
DOMESTIC EFFLUENT	470	279	CMD
DOMESTIC EFFLUENT	470	279	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	2.63	2.49	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
COAL MT/MWH	0.589	0.577	Mwh
LDO ML/KWH	0.36	0.361	Mwh

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
FURNACE OIL	22800	000	KL/A
LDO	27700	1469.16	KL/A
COAL	6699996	2351500	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	Standard	Reason
	Quantity	Concentration	%variation		
TSS-STP TREATED WATER	6.11	21.9	0	50	No Deviation
BOD 3 DAY -STP TREATED WATER	2.9	10.4	0	30	No Deviation
COD -STP TREATED WATER	12.58	45.1	0	100	No Deviation
TDS-ETP TREATED WATER	12.2	331	0	2100	No Deviation
PH-ETP TREATED WATER	0.0	7.5	0	9.0	No Deviation
COD-ETP TREATED WATER	1.25	33.8	0	250	No Deviation
BOD-ETP TREATED WATER	0.34	9.2	0	30	No Deviation
CHLORIDE -ETP TREATED WATER	0.6	16.3	0	600	No Deviation
TSS -ETP TREATED WATER	0.64	17.3	0	100	No Deviation
pH-CONDENSAR COOLING TOWER WATER	0	7.5	0	6.5 TO 8.5	No Deviation
TEMP-CONDENSAR COOLING TOWER	0	3.55	0	Not More 5 Deg Cel. Than	No Deviation
FREE AVAILABLE CHLORINE-CONDENSAR COOLING TOWER	0	0.052	0	0.5	No Deviation
TSS-BOILER BLOWDOWN	0.44	5.0	0	100	No Deviation

O&G-BOILER BLOWDOWN	0	0.0	0	10	No Deviation
COPPER (TOTAL)-BOILER BLOWDOWN	0.0036	0.04	0	1	No Deviation
IRON(TOTAL)-BOILER BLOWDOWN	0.0220	0.247	0	1	No Deviation
FREE AVAILABLE CHLORINE -COOLING TOWER BLOW DOWN	0.118	0.06	0	0.5	No Deviation
CHROMIUM(TOTAL) -COOLING TOWER BLOWDOWN	0.207	0.10	0	0.2	No Deviation
PHOSPHATE-COOLING TOWER BLOWDOWN	3.59	1.74	0	5	No Deviation
pH-DM PLANT EFFLUENT	0	7.8	0	5.5-9.0	No Deviation
SUSPENDED SOLID-DM PLANT EFFLUENT	1.1	5.2	0	100	No Deviation
O&G-DM PLANT EFFLUENT	0	0.0	0	10	No Deviation
BOD 3DAY-DM PLANT EFFLUENT	1.9	9.2	0	30	No Deviation
COD -DM PLANT EFFLUENT	6.4	30.6	0	250	No Deviation
TDS-DM PLANT EFFLUENT	92.4	444.4	0	2100	No Deviation
ZINC-COOLING TOWER BLOWDOWN	0.064	0.031	0	1	No Deviation

[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		
UNIT#1PM	1196	38	0	50	No Deviation
UNIT#1 SO2	18197	568	0	600	No Deviation
UNIT#1 NOX	6949	218	0	300	No Deviation
UNIT#2PM	1143	36	0	50	No Deviation
UNIT#2 SO2	17974	572	0	600	No Deviation
UNIT#2 NOX	6765	216	0	300	No Deviation
UNIT#3 PM	1132	37	0	50	No Deviation
UNIT#3 SO2	16141	567	0	600	No Deviation
UNIT#3 NOX	6664	215	0	300	No Deviation
UNIT#4 PM	1061	34	0	50	No Deviation
UNIT#4 SO2	17413	559	0	600	No Deviation
UNIT#4 NOX	7237	232	0	300	No Deviation
UNIT#5 PM	1063	34	0	50	No Deviation
UNIT#5 SO2	17685	565	0	600	No Deviation
UNIT#5 NOX	7216	231	0	300	No Deviation

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	17.6	0	MT/A
Other Hazardous Waste	0.72 Glass Wool	1.060 Glass Wool	MT/A
Other Hazardous Waste	000 Used Battery	107 Used Battery	Nos./Y

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	0.020	0.910	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
BOTTOM ASH	121484.085	115026.46	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
FLY ASH	705431.915	606465.48	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Other Hazardous Waste	0	0	MT/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
35.3 Chemical sludge from waste water treatment	0.910	MT/A	Solid , Low Concentration of water
Other Hazardous Waste	1.060 Glass Wool	MT/A	Glass Wool
Other Hazardous Waste	107 Used Battery	Nos./Y	Used Battery Send for Recyclced

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
FLY ASH	606465.48	MT/A	Dry, Micro Particale Size
BOTTOM ASH	115026.46	MT/A	Coarse , Granular ash and water

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)
0	0	0	0	0	0	0

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)
20000 tree sapling done in side plant permises	Reduction of Co2 and Particulate Matter	7.5
HIRING OF WATER TANKER FOR DUST SUPPRESSION ON ROAD	Reduction of Particulate Matter	4.0
INSTALLATION PIPELINE FOR GARDENING	To safe gaurd Tree Plantation	6.75
ADDITIONAL WORKS CARRIED OUT FOR DUST SUPPRESSION SYSTEM AT CHP	To Control Secondary Emission	3.26

MAINTAINING HOUSEKEEPING INSIDE THE PLANT	Maintain House Keeping	170
CHARGES PAID TO MPCB FOR JVS COLLECTION AND ANALYSIS	MPCB JVS Monitoring	4.49
DISPOSAL OF HAZARDOUS WASTE TO MEPL , NAGPUR	Disposal of Hazardous Waste	0.50
ESP MAINTENANCES TO UNIT NO#1 TO 5	To control SPM /TPM	1.49
HIRING OF MANPOWER FOR OPERATION OF ETP/STP	Operation of STP and ETP	17.33

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
20000 tree sapling is proposed in side the plant	Reduction of Co2 and Particulate Matter	10
Construction of Cement Road inside the Plant	Reduction of Secondary Emission	140

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

Particulars

Green Belt Devolpment with more than 180000 no of plantation .Water Sprinkling , Dry For Dust Supression system in coal handling, Coal Conveyour Belt Covered with GI Cladding Sheet. Dry Fly ash is being issued to RMC and Bricks Manufacturing industries.All the units are provided with high efficiency Electro-static Precipitatators (ESP) of more than 99.9% efficiency.

Name & Designation

MOHAMMAD NISAR