Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2018

Company Information

Company Name	***Application UAN number***
RattanIndia Power Ltd.(formerly Known As India Bulls Power Ltd.)	000

Address

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

Plot no	***Taluka***	***Village***
D2 & D2 (Part)	Amaravati	Wagholi
Capital Investment (In lakhs)	***Scale***	***City***
6882.28	Large	Amravati
Pincode	***Person Name***	***Designation***
444901	Mohammad Nisar	G M
Telephone Number	***Fax Number***	***Email***
07213982563	07213982502	mohammad.nisar@rattanindia.com
Region	***Industry Category***	***Industry Type***
SRO-Amravati I	Red	R9 Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW]
Last Environmental statement submitted online	***Consent Number***	***Consent Issue Date***
yes	Format 1.0/BO/CAC-Cell/EIC.No.AM-6689-15/CAC-14013 DTD	03.11.2015.
Consent Valid Upto		
31.08.2020.		

Product Information

Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Electricity Generation	11826000.00	4771372	Mwh

By-product Information

By Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
nil	nil	nil	Mwh

1) Water Consumption in m3/day

Water Consumption for	***Consent Quantity in m3/day***	***Actual Quantity in m3/day***
Process	0000	000
Cooling	111292	33487
Domestic	720	685
All others	1218	686

Total	113230	34858

1) Effluent Generation in CMD / MLD

Particulars	***Consent Quantity***	***Actual Quantity***	***UOM***
Trade Effluent	24019	1795	CMD
Domastic Effluent	470	445	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 Genration	2.63	2.90	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	0.589	Mwh
LDO ML/KWH	0.944	0.361	Mwh

4) Fuel Consumption

Fuel Name	***Consent quantity***	***Actual Quantity***	***UOM***
Furance Oil	228000	00	MT/A
LDO	27700	1723.84	KL/A
Coal	6793051.50	2809908	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***
TSS-STP Treated Water	0.00895	20.1	0	100	No Devation
BOD 3 Day -STP Treated Water	0.006655	15.0	0	30	No Devation
COD -STP Treated Water	0.01820	40.9	0	250	No Devation
TDS-ETP Treated Water	0.00279	465.7	0	2100	No Devation
pH-ETP Treated Water	0	7.3	0	9.0	No Devation
COD-ETP Treated Water	0.000195	32.5	0	250	No Devation
BOD-ETP Treated Water	0.00007	11.4	0	30	No Devation
TSS-ETP Treated Water	0.000095	15.9	0	100	No Devation
Chloride -ETP Treated Water	0.00045	75.0	0	600	No Devation
pH-Condensar Cooling Tower	0	7.6	0	6.5-8.5	No Devation
Temp-Condensar Cooling Tower	0	35.5	0	Not More than 5 Deg.Cel	No Devation
Free Available Chlorine-Condensar Cooling Tower	0	0.1	0	0.5	No Devation
TSS-Boiler Blowdown	0.00091	7.5	0	100	No Devation
O&G -Boiler Blowdown	0	0	0	10	No Devation

Copper (Total)-Boiler Blowdown	0	0	0	1	No Devation
Iron (Total)-Boiler Blowdown	0	0	0	1	No Devation
Free Availabe Chlorine -Cooling Tower Blowdown	0.00006	0.1	0	0.5	No Devation
Zinc -Cooling Tower Blow Down	0.00000452	0.0452	0	1	No Devation
Chromium Total -Cooling Tower Blow Down	0.00012	0.1	0	0.2	No Devation
Phosphate-Cooling Tower Blow Down	0.0011	1.1	0	5	No Devation
pH-D M Plant Effluent	0	7.7	0	5.5-9.0	No Devation
TSS-D M Plant Effluent	0.0048	7.0	0	100	No Devation
O&G-D M Plant Effluent	0	0	0	10	No Devation
BOD3 Day-D M Plant Effluent	0.0071	10.3	0	30	No Devation
COD-D M Plant Effluent	0.2332	34	0	250	No Devation
TDS-D M Plant Effluent	0.3143	458.2	0	2100	No Devation

[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***
Unit #1 PM	939.7	30.6	0	50	No Devation
Unit #1 SO2	17813.0	578.7	0	600	No Devation
Unit #1 NOx	5519.8	179.6	0	300	No Devation
Unit #2 PM	955.6	31.3	0	50	No Devation
Unit #2 SO2	17370.3	571.3	0	600	No Devation
Unit #2 NOx	5379.0	176.3	0	300	No Devation
Unit #3 PM	939.8	30.0	0	50	No Devation
Unit #3 SO2	17899.2	570.5	0	600	No Devation
Unit #3 NOx	5074.7	162.0	0	300	No Devation
Unit #4 PM	1069.7	24.2	0	50	No Devation
Unit #4 SO2	18085.5	578.1	0	600	No Devation
Unit # 4NOx	5496.3	175.6	0	300	No Devation
Unit # 5 PM	881.2	28.0	0	50	No Devation
Unit #5 SO2	17932.4	586.6	0	600	No Devation
Unit # 5 NOx	5660.6	179.9	0	300	No Devation

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	***Total During Previous Financial year***	***Total During Current Financial year***	***UOM***
5.1 Used /spent oil	18.6	17.6	MT/A
0	0.570 Glass Wool	0.72 Glass Wool	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	***Total During Previous Financial year***	***Total During Current Financial year***	***UOM***

34.3 Chemical sludge from waste water treatment	1.320	0.020	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Bottom Ash	46272.3	121484.085	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
FLY ASH	262209.7	705431.915	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	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
5.1 Used /spent oil	17.60	MT/A	Water % not More than 10 %
34.3 Chemical sludge from waste water treatment	0.020	MT/A	Solid, Low Concentration of water
0	0.720	MT/A	Glass Wool

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Fly Ash	705431.915	MT/A	Dry, Micro Particale Size
Bottom Ash	121484.085	MT/A	Wet and Granual Mode

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)
Reused of Seepage water and utilized in Cooling Tower As a Make Up	960	144	144	10	1.2	0.5

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)
Making of Bitumen Road inside Plant Premisess	To Control Secondary Emission	98
Installationof On-Line Ash Analyzer over Coal Convaiyer Belt	To Measure % Ash in Coal	170
10200 No. sampling	To Control CO2 and PM	10

[B] Investment Proposed for next Year

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

15000 sampling to be done in Fy-18-19	To Control CO2 and PM	15

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

Particulars

GREEN ENERGY CLEAN ENERGY

Name & Designation

MOHAMMAD NISAR