



o/c
**PRAYAGRAJ POWER
GENERATION COMPANY LTD.**

Ref: PPGCL/FY22/ 341

Date:18.09.2021

To,

The Member Secretary
U.P Pollution Control Board
Building No. TC- 12 V,
Vibhuti khand, Gomti Nagar
Lucknow - 226010

Subject: Environment statement in Form V for the financial year 2020-2021.

Dear Sir,

Please find enclosed the Environment statement report for the period April'20 to March'21 (FY'20 - 21) for M/s Prayagraj Power Generation Company Limited, Bara.

This is for your kind information and record please.

Sincerely

For Prayagraj Power Generation Company Limited

K R Bairwa

Chief O&M Services

Enclosures – Environment Statement (Form V) for FY 20-21

✓ Cc:

The Regional Office
U.P Pollution Control Board, Jhusi, Prayagraj



Registered Office : Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Budh Nagar, Noida, Uttar Pradesh - 201301
Plant Address : P.O. - Lohgara, Tehsil - Bara, Prayagraj (Allahabad); Uttar Pradesh - 212107
Phone: + 91-120-6102000/6102009, +91-7525006400, +91-8528846666
CIN: U40101UP2007SGC032835, **Web:**-ppgcl.co.in, **Email:**-ppgcl@ppgcl.co.in

FORM - V**Environmental Statement for the Financial Year ending 31st March 2021****PART - A**

- (i) Name and Address of the Owner/ occupier of the industry operation or process : Mr. Brajesh Singh
Prayagraj Power Generation Company Limited
Vill- Lohgara, Tehsil - Bara
Distt - Prayagraj
Pin: 212107 (Uttar Pradesh)
- (ii) Industry category - : Large
- (iii) Production capacity - : 3 x 660 MW (Electric Thermal Power Plant)
- (iv) Year of establishment : Unit -I : 2016
Unit -II : 2016
Unit -III : 2017
- (v) Date of the last Environmental statement: submitted : 07.09.2020

PART - B**Water and Raw Material Consumption**

- (1) Water consumption m3/day
Current year (2020-2021)

Process	:	60664
Domestic	:	1572

Name of products	Water consumption per unit of product output (M3/MWH)	
	During the previous financial year (2019-2020)	During the current financial year (2020-2021)
Electricity	2.24	2.11

- (2) Raw material consumption

Name of raw materials	Name of products	Consumption of raw material per unit of output (MT/MU)	
		During the previous financial year (2019-2020)	During the current financial year (2020-2021)
Coal	Electricity	638.71	593.83
HSD	Electricity	0.32	0.33

(3) Electricity Generation

Name of products	During the previous financial year (2019-2020)	During the current financial year (2020-2021)
Electricity	9120.6	10751.08

PART – C

Pollution discharge to Environment / Unit of output

(Parameters as specified in consent issued)

Pollutants	Quantity of pollutants discharged (T/day)	Concentration of pollutants in discharges (mass/ volume) mg/Nm ³	Percentage of variation from prescribed standards with reasons
Water	-	-	Treated process wastewater is recycled within system. Treated domestic effluent is used in horticulture.
Air			
(1) PM	5.43	37.3	
(2) SO ₂	77.06	533.77	
(3) NO _x	37.37	257.72	

PART – D

Hazardous Wastes

(As specified under Hazardous Wastes/ Management and Handling Rules, 1989)

Hazardous Waste	Total Quantity (kg)	
	During the previous financial year (2019-2020)	During the current financial year (2020-2021)
From Process	Cat-5.1- 15.12 KL	Cat-5.1- 5.0 KL
From Pollution Control facilities.	Nil	Nil

PART - E
Solid Waste

Solid waste	Total Quantity (MT/Annum)	
	During the previous financial year (2019-2020)	During the current financial year (2020-2021)
A. From process	Nil	Nil
B. From Pollution Control facilities (Ash)	1983473.3	2002185
C. 1. Quantity recycled or reutilized within the unit 2. Sold 3. Recycled / Utilized (Ash)	<ul style="list-style-type: none"> • The flyash is utilized in – Cement industry, for ash based products, and in ash pond dyke raising. • Total qty utilized in FY19-20: 1787746 MT 	<ul style="list-style-type: none"> • The flyash is utilized in – Cement, Brick, Low lying area and Mines backfilling. • Total qty utilized in FY 20-21 : 2007902 MT

PART – F

Please specify the characterizations (in term of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- The hazardous waste Used oil (Cat-5.1- 5.0 KL generated at site was sent to authorised recycler for recycling.
- Solid Waste: Fly ash was utilized in Cement, Brick, filling of low lying area and backfilling of abandoned mines.

PART – G

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

- (1) Installation of ETP for the treatment of Industrial effluent.
- (2) Installation of STP for the treatment of Domestic effluent.
- (3) Installation of Ash water recovery system has been implemented.

The treated effluent is recycled within system resulting into conservation of natural resource (fresh water).

PART – H

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

- For the control of Air pollution ESP, One twin Flue stack of 275 meter height, dust extraction and dust suppression system has been installed.
- On line monitoring system has already been installed in stack to monitor SO_x, NO_x, and Particulate Matter.
- CAAQMS (Continuous Ambient Air Quality Monitoring System) for online ambient air quality monitoring has been installed.
- For the control of Water pollution ETP & STP has been installed for the treatment of Industrial & Domestic effluent. Also, ash water recovery system has been established.
- Coal pile run off pit constructed.
- Green belt has been developed in and around plant premises. The species which have been planted are – Neem, Sisam, Arjun, Pipal, Banyan, Karanj, Kaner, Gulmohar, Siris, Jamun and bamboo. During FY 21, we have planted 14500 saplings.
- Environment monitoring carried out by NABL accredited laboratory.
- Retrofitting of LED lights being done.
- Dust suppression system has been installed in coal yard area.

PART – I

Any other particulars for improving the quality of the environment

- (i) Green belt developed in and around the factory premises. Additional plantation is also being done.
- (ii) Good Housekeeping is being maintained in and around the Power Plant.
- (iii) Treated effluent is being recycled within the system.