

Ref: PPGCL/ENV/ FY25/ 353

Date: 17.06.2024

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 2023-2024.**

Dear Sir,

Please find enclosed the Environment statement report for the period April'20 to March'24(FY23-24) for M/s Prayagraj Power Generation Company Limited, Bara.

This is for your kind information and record please.

Yours Sincerely

For Prayagraj Power Generation Company Limited

  
S H Pandey

Chief Operation & Maintenance (Services)

Enclosures – Environment Statement (Form V) for FY 23-24

Cc:

The Regional Office

U.P Pollution Control Board, Jhusi, Prayagraj

  
22/06/2024  
  
Prayagraj Power Generation Company Limited

Registered Office : Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Budh Nagar, Noida, Uttar Pradesh - 201301  
Phone: + 91-120-6102000/6102208 CIN: U40101UP2007PLC032835

Plant Address : P.O. - Lohgara, Tehsil - Bara, Prayagraj (Allahabad), Uttar Pradesh - 212107  
Phone: + 91-7525006400/ 8528846666, Web:-ppgcl.co.in, Email:-ppgcl@ppgcl.co.in

**FORM – V****Environment Statement for the Financial Year ending 31<sup>st</sup> March 2024****PART-A**

- (i) Name and Address of the Owner/Occupier of the industry or process : Mr. S H Pandey  
Prayagraj Power Generation Company Limited  
Vill. - Lohgara, Tehsil- Bara  
Distt – Prayagraj, Uttar Pradesh  
Pin- 212107
- (ii) Industry Category : Large
- (iii) Production Capacity : 3 x 660 MW (Coal Based Thermal Power Plant)
- (iv) Year of establishment : Unit-1: 2016  
Unit-2: 2016  
Unit-3: 2017
- (v) Date of last Environment Statement submitted : 21.07.2023

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

- (1) Water Consumption (m<sup>3</sup>/day)  
Current Year (2023-2024)  
Process : 70,853.3  
Domestic : 545.50

Name of Product	Water consumption per unit of product output (m <sup>3</sup> /MWh)	
	During the previous financial year 2022-2023	During the current financial year 2023-2024
Electricity	2.08	2.04

- (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 2022-2023	During the current financial year 2023-2024
Coal	Electricity	610.4	612.03
HSD	Electricity	0.20	0.14

- (3) Electricity Generation (MUs)

Name of Product	During the previous financial year 2022-23	During the current financial year 2023-2024
Electricity	12,509.99	12,699.02

**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 discharged (mass/volume) (mg/Nm <sup>3</sup> )	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 (2)SO <sub>2</sub> (3)NOx	5.43 128.20 51.40	29.40 690.20 276.70	-

**PART-D**  
**Hazardous Waste**

(As specified under Hazardous and Other waste (Management and Transboundary movement) Rules 2016)

Hazardous Waste	Total Quantity (kg)	
	During the previous financial year 2022-2023	During the current financial year 2023-2024
From Process	Cat-5.1: 27.60 kL	Cat-5.1: 19.95 kL
From Pollution Control facilities	Nil	Nil

**PART-E**  
**Solid Waste**

Solid Waste	Total Quantity (MT/Annum)	
	During the previous financial year 2022-2023	During the current financial year 2023-2024
A. From Process	Nil	Nil
B. From Pollution Control facilities (Ash)	26,13,596.22	26,51,938.85

<p>C. 1. Quantity recycled or reutilized within the unit</p> <p>2. Sold</p> <p>3. Recycled/Utilized</p>	<ul style="list-style-type: none"> <li>The Fly ash is utilized in – Cement industry, for ash-based products like fly ash brick, filling of low-lying area and road construction.</li> <li>Total quantity utilized in FY 23 – 22,95,579.08 MT</li> </ul>	<ul style="list-style-type: none"> <li>The Fly ash is utilized in – Cement industry, for ash-based products like fly ash brick, filling of low-lying area, reclamation of abandoned mine and road construction.</li> <li>Total quantity utilized in FY 24 – 35,07,170.12 MT</li> </ul>
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#### PART-F

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.

- The Hazardous waste Used Oil (Cat- 5.1 – 19.95 kL) generated at site was sent to authorized recycler for recycling.
- Solid Waste: Fly Ash was utilized in Cement, Brick, filling of low-lying area, reclamation of abandoned mine and road construction.

#### PART-G

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

- Installation of ETP for the treatment of industrial effluent.
- Installation of STP for the treatment of Domestic effluent.
- Installation of Ash water recovery system has been implemented.

The treated effluent is recycled within the system resulting in 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 bi-Flue stack (Unit 1 &2) and one stack (Unit 3) of 275-meter height, dust extraction and dust suppression system has been installed.
- Online monitoring system has already been installed in stack to monitor SO<sub>2</sub>, NO<sub>x</sub>, and particulate matter.
- CAAQMS (Continuous Ambient Air Quality Monitoring System) for online ambient air monitoring has been installed.
- For the control of Water pollution ETP & STP has been installed for the treatment of Industrial and 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, Kadam, Mahua, Sisam, Arjun, Mango, Pipal, Karanj, Kaner, Gulmohar, Siris, Jamun and Bamboo. During FY 24, we planted 14,288 saplings. Till March 24 we have planted approx 3.48348 lakh saplings.

- We also have developed "Miyawaki Forest" in 2059 m<sup>2</sup> area (FY 24) with plantation of suitable local species.
- Environment monitoring carried out by NABL accredited laboratory.
- Dust suppression system has been installed in coal yard area. Fogging system installed at wagon tippler.
- We have installed solar streetlights, solar based garden lights and roof top solar of 204 kW at our school building and 61 kW at hospital.
- 60 No. Solar Street Light has been installed in nearby Berui, Bemra, Khan-semra, Kapari and Jorvat.
- Solar water heaters have been installed on the roof of guest houses.
- LED lamps have been installed.
- Fly ash brick making unit has been installed under CSR activity.
- One check dam has been constructed in Jorvat village.
- Turbo ventilators have been installed in the store and mechanical workshop.
- We have constructed roof top rainwater harvesting systems and rainwater harvesting ponds in the plant premises.

#### 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 in consultation with the local forest department.
- (ii) Good housekeeping is being maintained in and around the power plant.
- (iii) Treated effluent being recycled within the system.
- (iv) Installed solar panels on the roof of school and hospital building.
- (v) Biodegradable waste generated at the site is being managed by third party to convert it into compost.
- (vi) E-waste and battery have been disposed through an authorized recycler.