

PPGCL/ENV/FY23/104

Date: 14.09.2022

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

Subject: Environment Statement in Form V for the financial year 2021-2022.

Dear Sir,

Please find enclosed the Environment Statement report for the period April-21 to March-22 (FY 21-22) 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

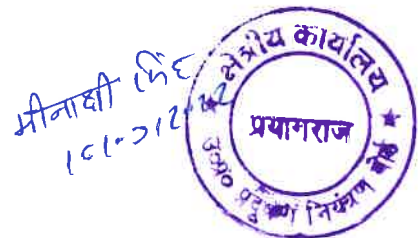

S H Pandey

Chief-O&M Services

Encl: Environment Statement (Form V) for FY 21-22

Cc: The Regional Officer

U.P. Pollution Control Board, Prayagraj



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: U40101UP2007SGC032835

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 31st March 2022****PART-A**

- (i) Name and Address of the Owner/Occupier of the industry or process : Mr. Brajesh Singh
Prayagraj Power Generation Company Limited
Vill. - Lohgara, Tehsil- Bara
Distt – Prayagraj, Uttar Pradesh
Pin- 212107
- (ii) Industry Category : Large
- (iii) Production Capacity : 3x660 MW (Electric Thermal Power Plant)
- (iv) Year of establishment : Unit-1: 2016
Unit-2: 2016
Unit-3: 2017
- (v) Date of last Environment Statement submitted : 27.09.2021

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

- (1) Water Consumption (m³/day)
Current Year (2021-2022)
Process : 64790.6
Domestic : 1573.4

Name of Product	Water consumption per unit of product output (m ³ /MWh)	
	During the previous financial year 2020-2021	During the current financial year 2021-2022
Electricity	2.11	2.03

- (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 2020-2021	During the current financial year 2021-2022
Coal	Electricity	593.83	619.07
HSD	Electricity	0.33	0.25

- (3) Electricity Generation (MUs)

Name of Product	During the previous financial year 2020-2021	During the current financial year 2021-2022
Electricity	10751.08	11654.94

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 ³	Percentage of variation from prescribed standards with reasons
Water	-	-	Treated process wastewater is recycled within system. Treatment domestic effluent is used in horticulture.
Air (1)PM (2)SO ₂ (3)NOx	7.3 118.1 54.1	37.9 611.4 279.8	-

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 2020-2021	During the current financial year 2021-2022
From Process	Cat-5.1: 15.12 kL	Cat-5.1: 40.4 kL
From Pollution Control facilities	Nil	Nil

PART-E
Solid Waste

Solid Waste	Total Quantity (MT/Annum)	
	During the previous financial year 2020-2021	During the current financial year 2021-2022
A. From Process	Nil	Nil
B. From Pollution Control facilities (Ash)	2002185	2419356
C. 1. Quantity recycled or reutilized within the unit 2. Sold 3. Recycled/Utilized	<ul style="list-style-type: none"> • The Fly ash is utilized in – Cement industry, for ash-based products, Low lying area and mines backfilling. • Total quantity utilized in FY 21-2007902 MT 	<ul style="list-style-type: none"> • The Fly ash is utilized in – Cement industry, for ash-based products like fly ash brick, Low lying and abandoned mine backfilling and Ash dyke raising.

		<ul style="list-style-type: none"> Total quantity utilized in FY 22- 2107528.77 MT
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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 - 40.4 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 and backfilling of abandoned mines and ash dyke raising.

PART-G

Impact of the pollution abatement measures taken on conservation 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 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.
- Online monitoring system has already been installed in stack to monitor SO₂, NO_x, 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, Sisam, Arjun, Pipal, Banyan, Karanj, Kaner, Gulmohar, Siris, Jamun, and Bamboo. During FY 22, we have planted 25000 saplings. Till March 22 we have planted approx 3.13 lakh saplings.
- We also have developed "Miyawaki Forest" in 5650 m² area with plantation of 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.
- 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.
- Turbo ventilators have been installed in the store and mechanical workshop.
- We have constructed 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.
- (ii) Good housekeeping is being maintained in and around the power plant.
- (iii) Treated effluent being recycled within the system.
- (iv) Started use of renewal energy sources and installed roof top solar.