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**PRAYAGRAJ POWER  
GENERATION COMPANY LTD.**

Ref: PPGCL/ENV/ FY21/ 130

Date: 28.08.2020

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 2019-2020.**

Dear Sir,

Please find enclosed the Environment statement report for the period April'19 to March'20 (FY19-20) 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 19-20

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 31<sup>st</sup> March 2020**

**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 : 11.09.2019

**PART – B**

**Water and Raw Material Consumption**

- (1) Water consumption m<sup>3</sup>/day

Current year (2019-2020)

Process : 54781  
Domestic : 1381

Name of products	Water consumption per unit of product output (M3/MWH)	
	During the previous financial year (2018-2019)	During the current financial year (2019-2020)
Electricity	2.13	2.24

(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 (2018-2019)	During the current financial year (2019-2020)
Coal	Electricity	617.63	638.71
HSD	Electricity	0.52	0.32

(3) Electricity Generation

Name of products	During the previous financial year (2018-2019)	During the current financial year (2019-2020)
Electricity	7759.34	9120.6

**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 <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	2.43	38.3	
(2) SO <sub>2</sub>	46.72	735	
(3) NO <sub>x</sub>	17.57	276	

**PART – D**  
**Hazardous Wastes**  
**(As specified under Hazardous Wastes/ Management and Handling Rules, 1989)**

Hazardous Waste	Total Quantity (kg)	
	During the previous financial year (2018-2019)	During the current financial year (2019-2020)
From Process	Cat-5.1- 58.8 KL	Cat-5.1- 15.12 KL
From Pollution Control facilities.	Nil	Nil.

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

Solid waste	Total Quantity (MT/Annum)	
	During the previous financial year (2018-2019)	During the current financial year (2019-2020)
A. From process	Nil	Nil
B. From Pollution Control facilities (Ash)	1743636	1983473.3
C. 1. Quantity recycled or reutilized within the unit 2. Sold 3. Recycled / Utilized (Ash)	<ul style="list-style-type: none"> <li>• The flyash is utilized in – Cement industry, for ash based products, and in ash pond dyke raising.</li> <li>• Total qty utilized in FY 18-19 : 1275443 MT</li> </ul>	<ul style="list-style-type: none"> <li>• The flyash is utilized in – Cement industry, Ash pond dyke raising and in low lying area filling within plant premises.</li> <li>• Total qty utilized in FY 19-20 : 1787746 MT</li> </ul>

### 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- 15.12 KL) generated at site was sent to authorised recycler for recycling.

Solid Waste: Fly ash was utilized in Cement, filling of low lying area within plant premises and in ash dyke raising

### 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 with an expenditure of Rs. 34.0 Crore
- (2) Installation of STP for the treatment of Domestic effluent.
- (3) Installation of Ash water recovery system has been implemented.

Total cost incurred for the O&M of ETP (chemical) Rs. 12.90 Lakh in FY 20.

The treated effluent is being recycled 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. The cost incurred in installing ESP - Rs. 438 Crore approx.
- On line monitoring system has already been installed in stack to monitor SO<sub>x</sub>, NO<sub>x</sub>, and Particulate Matter.
- CAAQMS (Continuous Ambient Air Quality Monitoring System) for online ambient air quality monitoring has been installed. Total cost incurred – Rs. 1.56 Crore approx.

- 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.
- EQMS has been installed with an expenditure of Rs. 0.139 Crore approx.
- 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.
- Environment monitoring carried out by NABL accredited laboratory.
- Retrofitting of LED lights being done.

### 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.
- (iv) 5S system being implemented.