

INDRAPRASTHA POWER GENERATION COMPANY LIMITED

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PRAGATI POWER CORPORATION LIMITED

(Environment Department, O&M Building, Rajghat Power House, New Delhi-110002)

No.: GM (Chem. & Env.)/GT-1/

DATED:

Member Secretary,
Delhi Pollution Control Committee,
4th Floor, ISBT Building,
Kashmere Gate,
Delhi -110006.

Subject: Annual Environment Statement 2018-2019.

Please find enclosed herewith Environment Statement for the year 2018 – 2019 in respect of Indraprastha Gas Turbine Power Station (GTPS).

It is for your kind information & record please.

(R.S.Subramaniam)
Dy General Manager
Chem. & Env.
IPGCL - PPCL

Encl: A,B,C,D,E,F,G

Cc:
GM (T) GTPS
GM (Chem.& Env.)
Manager (Opn.) GTPS
DM (T) Env./Office Copy

ANNUAL ENVIRONMENTAL STATEMENT

FOR THE YEAR 2018-2019

INDRAPRASTHA GAS TURBINE POWER STATION

INDRAPRASTHA POWER GENERATION CO. LTD.

PART - A

1. Name & Address of the Owner/
Occupier of the industry operation
or process. : OWNER Govt. of National
Capital Territory
Of Delhi.

OCCUPIER General Manager(T)
Indraprastha Gas
Turbine Power Station
I.P.Estate, Ring Road,
New Delhi -110002.
2. Industry Category Primary (STC Code) : Red Category
Secondary (STC Code)
3. Generation Capacity : GT's 30X6 =180MW
STG's 30X3 = 90MW
4. Year of Establishment : GT: 1985 – 86; STG: 1995-96
5. Date of last Environmental Statement
submitted : for the year 2017 – 18
on dated 11.07.2018

PART - B

Water & Raw Water Consumption

(1) Water Consumption in m³ per year

	2017-18	2018-19	Remarks
Gross Energy Generation (MU)	578.477	599.569	
Process Cooling Water (KL) (Treated Water from STP)	586555	429760	Cooling system is closed cycle
Domestic Water (KL)	7560	8954	
Total Water Consumption (KL)	594115	438714	

Name of the product	Process water consumption drawn as per product output	
Electricity Generation	Previous Financial Year 2017-18	During current Financial Year 2018-19
Process Water (Ltr./kwh)	1.013	0.717

(2) Raw Material consumption

Name of the Product	Name of raw material	Consumption of raw material / unit of output		
			Previous FY 2017-18	During current FY 2018-19
Electricity Generation ()	Natural Gas	Total Consumption (scm)	152385326	162699126
		Specific Consumption (scm/kwh)	0.263	0.271

PART - C

Pollution discharged to environment / units of output (approx.)

(1) Water – Treated Effluent Discharged

		Quantity	Average Concentration	% variation from prescribed standards with reasons
Water Treated Effluent Discharge				
Unit	Limit			
pH	6.5 – 9.0	52000	7.43	NIL
TSS	< 50 ppm	KL/Annum	19.5	NIL
Oil & Grease	< 10 ppm	(approx.)	1.20	NIL
BOD	< 30 ppm		11.8	NIL
COD	< 250 ppm		49.6	NIL

(2) Air (Stack Emission)

Pollutant	Qty. of pollutant discharged (kg/day)	Concentration of pollutants discharged (ppm)	% of variation from prescribed standards with reasons
SPM	NIL		NIL
NOx	Not Available	NOx levels within prescribed limits of ≤ 75 ppm	NIL
SOx	NA		NIL

PART – D

As specified under Hazardous Waste (Management, Handling & Trans boundary Movement) Rules, 2016 (as amended)

Hazardous Waste	Total Quantity	
	2017-18	2018-19
a) From Process		
Used / Spent Oil	NIL	NIL
Spent Resin	NIL	NIL
b) From Pollution Control Facility	NIL	NIL

PART – E

Solid Waste:

Solid Waste	Total Quantity in kg.	
	2017-18	2018-19
a) From Process (ETP/STP sludges)	18,000 kg	----- NA
b) From Pollution Control Facility	NA	NA
c)		
i) Quantity recycled or re-utilized within limit	NA	NA
ii) Solid (generated through ETP centrifuge)	1700 Kg.	18000 kg
iii) Disposed		

PART – F

S.No.	Name of HW/Solid Waste	Quantity	Type / Nature	Mode of Disposal
1.	Used Spent Oil	NIL	Inflammable	Disposed through MSTC (PSU) to recycler
2.	Spent Resin	NIL	Inflammable	NA

PART – G

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

1. Stack emission: AMC has been awarded to M/s. Sriram Institute for Industrial Training the DPCC authorized laboratory for stack monitoring w.r.t. NOx emissions. The results are found within limits of 75 ppm.
2. Specific Water consumption is 0.717 L/kWh.
3. Specific Gas consumption is 0.271 scm/kWh
4. The consent to operate Gas Turbine Power Station has been renewed and is valid Upto 02.12.2023
5. The waste / used oil of Gas Turbine Power Station is disposed through MoEF registered recyclers. The half-yearly return in respect to Batteries Rules, 2001 in prescribed form – VIII & IX as well as disposal of hazardous waste in form 4 are being filed periodically with DPCC.
6. IPGCL- PPCL celebrated World Environment Day 2018 by organising tree plantation drive at Pragati Power Station – III, Bawana,