

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

No.: GM (Chem & Env.)/PPCL-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 Form –I for the year 2018 – 2019 in respect of Pragati Power Station (PPS-I) of Pragati Power Corporation Limited [PPCL].

It is for your kind information & record please.

(R.S.Subramaniam)
Dy General Manager
Chemistry & Environment
IPGCL - PPCL

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

Cc:

GM (T) PPS-I
GM (Chem. & Env.)
Manager (T) Opn.
Dy. Manager (T) Env. / Office Copy

FORM-I
ANNUAL ENVIRONMENTAL STATEMENT

FOR THE YEAR 2018-2019
PRAGATI POWER STATION-I
PRAGATI POWER CORPORATION LIMITED

PART - A

- | | | | |
|--------------------------------------------------------------------------------------|---|----------|-----------------------------------------------------|
| 1. Name & Address of the Owner/
Occupier of the industry operation
or process. | : | OWNER | Govt. of National
Capital Territory
Of Delhi. |
| | : | OCCUPIER | GM (Tech)
Pragati Power Corp. Ltd. |
| 2. Industry Category Primary (STC Code)
Secondary (STC Code) | : | | Orange Category |
| 3. Generation Capacity | : | | 330 MW (Electricity) |
| 4. Year of Establishment | : | | 2002 |
| 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)	1954.999	1515.585	
Process Cooling Water (KL) (Treated Water from STP)	3057849	2847430	Cooling system is closed cycle
Domestic Water (KL)	3267	1739	
Total Water Consumption (KL)	3061116	2849169	

Name of the product	Process water consumption drawn as per product output	
	During current Financial Year 2017-18	Current Financial Year 2018-19
Electricity Generation		
Process Water (Ltr./kwh)	1.56	1.88

(2) Raw Material consumption

Name of the Product	Name of raw material	Consumption of raw material / unit of output		
		Previous Financial Year 2017-18	During current Financial Year 2018-19	
Electricity	Natural Gas	Total Consumption (scm)	410836469	320980359.320
		Specific Consumption (scm/kwh)	0.210	0.212

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		4,48,000 KL / Annum (approx.)		
Unit	Limit			
pH	6.5 – 8.5		7.86	NIL
TSS	< 50 ppm		31.01	NIL
Oil & Grease	< 10 ppm		2.92	NIL
BOD	< 30 ppm		10.55	NIL
COD	< 250 ppm		50.77	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	NIL
NOx (35ppm)	Not Available	Avg. Value 15.3 ppm	NIL
SOx	N/A	NIL	NIL

PART – D

As specified under Hazardous Waste (Management, Handling & Trans-boundary Movement) Rules, 2008

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 sludge)	96.0 MT	50.0 MT
b) From Pollution Control Facility	NA	NA
c)		
i) Quantity recycled or re-utilized within limit	NA	NA
ii) Solid		
iii) Disposed	NA	NA

PART – F

S.No.	Name of HW/Solid Waste	Quantity	Type / Nature	Mode of Disposal
1.	Used Spent Oil	NIL	Inflammable	NA
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. The NO_x level is maintained below the stipulated limit of 35 ppm. Dry Low NO_x Burners installed for this purpose are maintained properly. Periodic maintenance is carried out for their efficient functioning of DLN Burners. Expenditure for **Rs. 1,10,28,000.00** incurred on maintenance of DLN Burner and NO_x emission averaging 15.3 ppm maintained for the year 2018-19.
2. The process water requirement is met through treated sewage water from Sen Nursing Home Nallah & Delhi Gate Nallah Sewage Treatment Plants. PPCL has incurring the cost of **Rs. 3,97,78,000.00** during FY 2018-19 on O&M and electricity charges for running these STPs.
3. An amount of **Rs. 2,42,863.00** is being incurred on horticulture during the FY 2018-19.

4. The process specific water consumption in the FY 2018-19 has been 1.88 Ltr. / kwh.
5. Complying to the conditions laid down under Consent to Operate accorded by DPCC, the water requirements of the plant are met through the treated water from two Sewage Treatment Plants (STPs) at Sen Nursing Home Nallah & Delhi Gate Nallah. No water is drawn from river Yamuna or any reservoir, thereby conserving the natural resource.
The effluent of the plant is treated in the Central Monitoring Basin (CMB) to bring the quality of the water within the prescribed Physico-chemical standards set by DPCC.
6. The waste / used oil of Pragati 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 is being filed periodically with DPCC.
7. Pragati Power Station has applied for renewal of consent to operate on prescribed format and deposited required fee for 5 years.
8. PPCL celebrated World Environment Day 2018 by organizing tree plantation drive at Pragati Power Station – III, Bawana.