

ITPCL-S/GEN/26-27/4233

21.09.2026

To

✓ The District Environmental Engineer
Tamil Nadu Pollution Control Board
Plot No. A3, SIPCOT Industrial Complex
Kudikadu, Cuddalore 607 005
Tamil Nadu

Dear Sir,

Sub: Submission of Environmental Statement - Form V for FY 2025-26
by ITPCL, Cuddalore - Reg.

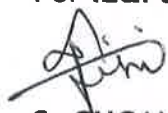
With reference to the above subject, we IL&FS Tamil Nadu Power Company Limited (ITPCL) is hereby submitting the Environmental Statement - Form V for the Financial Year ending 31st March 2026 for our "Coal Based Thermal Power Plant" located at Cuddalore, complying to the conditions of Environmental Clearance dated 31.05.2010 and amendments thereof.

The receipt for the same may kindly be acknowledged.

Thanking you,

Yours Sincerely,

For IL&FS Tamil Nadu Power Company Limited


S. GUGAN
(Station Head)



- CC: 1. The Joint Chief Environmental Engineer, TNPCB, Cuddalore
2. The Member Secretary, TNPCB, Chennai
3. MoEF Regional Office, Chennai

Encl: As above



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FORM V

(See Rule 14 of Environment (Protection) Rules, 1986)

Environmental Statement for the Financial Year ending 31st March 2026

PART-A

1.	Name and address of the owner/ occupier of the industry operation or process	: Shri. Sanjeev Seth Managing Director IL&FS Tamil Nadu Power Company Ltd 4 th Floor, KPR Tower, Old No.21, New No.2, 1st Street, Subba Rao Avenue, College Road, Chennai- 600006
2.	Industry/Category Primary (STC Code) / Secondary (STC Code)	: Red / Red Large - Coal Based Thermal Power Plant
3.	Production Capacity - Units	: Total Plant Capacity: 1200 MW No. of Units: 2 (2 x 600 MW Sub Critical Technology)
4.	Year of Establishment	: 26.06.2006 (Ref: Factory License Reg No CDR01250; dated: 24.08.2015)
5.	Date of the last Environmental Statement submitted	: 29.08.2025

PART-B

WATER AND RAW MATERIAL CONSUMPTION

(i). Sea Water Consumption (m^3/day): 33865.27

Process : 418.10 m^3/day
Cooling : 33322.40 m^3/day
Domestic : 124.77 m^3/day

Name of Products		Process Water Consumption per unit of products output	
		During the previous Financial Year (2024-25)	During the current Financial Year (2025-26)
(i)	Electricity	2.27 M^3/MWh	2.29 M^3/MWh



(ii). Raw material Consumption:

*Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the current Financial Year (2024-25)	During the current Financial Year (2025-26)
Coal	Electricity	4109192.0 Ton	3103111.5 Ton
HFO	Electricity	-	-
HSD	Electricity	480.5 KL	767.87 KL

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw material used.

PART-C

POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT

(Parameter as specified in the consent issued)

Pollution	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a. WATER	Marine Discharge (TE1 + TE2)		
	COD : 16.15 T/day	154.50 mg/l	No deviation
	BOD : 1.73 T/day	16.42 mg/l	No deviation
	TSS : 1.43 T/day	13.92 mg/l	No deviation
	Treated Effluent (TE3+TE4+TE5)		
	COD : 0.008 T/day	28.25 mg/l	No deviation
	BOD : 0.002 T/day	6.00 mg/l	No deviation
	TSS : 0.002 T/day	7.75 mg/l	No deviation
	TDS : 0.281 T/day	907.7 mg/l	No deviation
b. AIR	STACK #1 EMISSION		
	SPM : 0.87 T/day	20.35 mg/Nm ³	No deviation
	SO ₂ : 6.93 T/day	163.13 mg/Nm ³	No deviation
	NO _x : 12.67 T/day	297.38 mg/Nm ³	No deviation
	STACK #2 EMISSION		
	SPM : 0.82 T/day	20.46 mg/Nm ³	No deviation
	SO ₂ : 6.61 T/day	166.22 mg/Nm ³	No deviation
	NO _x : 9.68 T/day	250.33 mg/Nm ³	No deviation



PART-D
HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2016)

Hazardous Wastes		Total Quantity Generated In (Kg)	
		During the current Financial Year (2024-25)	During the current Financial Year (2025-26)
(a) From Process			
5.1	Used or Spent Oil	11,480	16,300
5.1	Used or Spent Oil (Used Grease)	200	480
5.2	Wastes or residues containing oil	620	2,500
35.3	Chemical sludge from waste water treatment	1,140	760
33.1	Empty barrels / containers / liners contaminated with hazardous chemicals/ wastes	3,660	2,866
35.2	Spent ion exchange resin containing toxic metals	Nil	Nil
(b) From Pollution Control Facilities		Nil	Nil

PART- E
SOLID WASTES

Solid Wastes		Total Quantity (TPA)	
		During the current Financial Year (2024-25)	During the current Financial Year (2025-26)
(a)	From Process		
	(i) Fly Ash Generation	1,34,925	1,05,168
	(ii) Bottom Ash Generation	18,956	14,829
(b)	From pollution control facility	Nil	Nil
(c)	(1) Quantity recycled or reutilized within the unit	Nil	Nil
	(2) Sold (Utilised)		
	(a) Fly Ash	1,34,925	1,05,168



	(b) Bottom Ash	18,956	14,829
	(c) Pond Ash	6,397	2,264
	(3) Disposed to Ash Dyke		
	(a) Fly Ash	Nil	Nil
	(b) Bottom Ash	Nil	Nil

PART-F

Please specify the characteristics (in terms of composition of quantum) of both these categories of wastes.

Sl No	Details of waste	Characteristics of waste	Method of disposal
1	Used or Spent Oil	Hazardous waste (Cat 5.1) Spent oil generated from gear boxes, process fan, Mill area, pumps, etc.	Sent to TNPCB authorized recyclers for reprocessing.
2	Used or Spent Oil (Used Grease)	Hazardous waste (Cat 5.1) Spent grease generated from Conveyor Belt motors, Gear boxes etc.	Sent to TNPCB authorized recyclers for reprocessing.
3	Wastes or residues containing oil	Hazardous waste (Cat 5.2) Waste materials contaminated with oil and grease generated from Machine cleaning and maintenance work	Disposed to TSDF Gummidipoondi for incineration.
4	Chemical sludge from waste water treatment	Hazardous waste (Cat 35.3) Sludge generated from industrial waste water treatment plant.	Disposed to TSDF Gummidipoondi for secured land filling
5	Empty barrels / containers / liners contaminated with hazardous chemicals/ wastes	Hazardous waste (Cat 33.1) Waste HDPE/Plastic/MS drums generated after consumption of water treatment chemicals.	Sent to TNPCB authorized recyclers for reprocessing.
6	Spent ion exchange resin containing toxic metals	Hazardous waste (Cat 35.2) Waste resins generated from water treatment process.	Captive utilization by burning in boiler along with coal.
7	Fly ash	By product - Ash from boiler operations	Sent to cement industries as alternate raw material
8	Bottom Ash	By product - Ash from boiler operations	Sent to cement industries as alternate raw material
9	Gypsum	By product - Gypsum obtained from FGD operations	Sent to cement industries as alternate raw material



PART-G

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

The following measures were undertaken on conservation of natural resources.

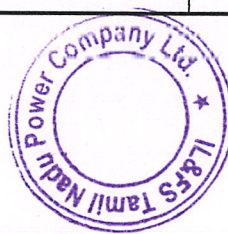
- a. FGDs have been Installed for both units during commissioning, to control the SO_x emission and being operated effectively.
- b. Effective operation of Sewage Treatment Plant and reuse the water for gardening.
- c. Effective operation of Industrial Wastewater Treatment Plant, Coal Wastewater Treatment Plant, and reuse the water for dust suppression in Coal Handling Plant and floor washing, etc.
- d. Effective operation of Central Monitoring Basin to maintain the temperature and average salinity.
- e. Effective operation of cooling tower (IDCT) and circulating water pump house to minimize consumption of water requirement.

PART-H

Additional measures / investment proposal for environmental protection including abatement of pollution prevention of pollution.

Additional measures taken for environmental protection and abatement of pollution include the following.

Sl. No.	Particulars	Cost in Lakhs
1.	Installation cost of Air Pollution Control Measures	
i.	275 mtr tall Chimney	15500.00
ii.	99.99% of efficient Electrostatic Precipitator	
iii.	15-Meter-High Wind Barrier at Coal Yard	
iv.	Coal Dust Extraction and Dust Suppression System	
v.	Installation of online Ambient Air Quality Monitoring System (6 Nos.) connectivity to CARE Air Center of TNPCB and CPCB.	
vi.	Installation of online Stack Monitoring System in Chimney connectivity to CARE Air Center, TNPCB and CPCB.	
2.	Installation cost of Water Pollution Control Measures	
i.	Sewage Treatment Plant	
ii.	Industrial Wastewater Treatment Plant	
iii.	Coal Wastewater Treatment Plant	
iv.	Oil Wastewater Treatment Plant	
v.	Central Monitoring Basin	
vi.	Central Effluent Monitoring Basin	
vii.	Ash Water Recovery Pump House	



	Viii	Cooling Tower	75500.00
	ix	Water Sprinkler System	
	x	Installation of online effluent monitoring system and connectivity to Water Quality Watch Center and CPCB.	
3.	Additional measures for environmental protection including abatement of pollution, prevention of pollution and environmental monitoring during Operation & Maintenance period 2025-26		5135.00

PART-I

Any other particulars for improving the quality of the environment

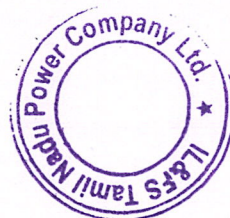
Various plans have been devised and implemented to reduce the impact of the Power Plant activities on the surrounding areas and its natural environment. Some of them are as follows:

- Regular monitoring of online ambient air quality, online stack emissions and effluent quality have been taken up to evaluate the efficiency of the pollution control systems and control measures on the overall emissions from stack, ambient air and effluents.
- Stack emission and Treated Effluent Quality is periodically monitored by NABL Accredited Laboratory, and the Consolidated Analysis Report is attached as Annexure 1.
- Noise barrier of 8 meter height and 400 meter length has been provided along South West boundary near Cooling Towers-2.
- Sound proof enclosures provided in the following areas:
 - Turbine Generator (TG)
 - Turbine Driven Boiler Feed Pump (TDBFP)
 - Diesel Generator (DG)
- Low NOx burners provided to control the NOx emissions.
- Continuous monitoring of seawater in and around the ITPCL site in marine zone is being monitored through CASMB (Center for Advanced Study in Marine Biology), Annamalai University every month to ensure that the marine ecosystem/biodiversity is not affected due to discharge of water.
- Undertaken mangrove conservation program in 25 hectares nearby Pichavaram with help of Forest Department & CASMB "Centre for Advanced Study in Marine Biology", Annamalai University, Parangipettai.
- Double flue can 275 meters tall chimney constructed to equal dispersion and dilution of flue gas to maintain the various ground level concentration.



- 99.99% efficient Electrostatic Precipitator (ESP), installed to control particulate matter with respect to air pollution control measure.
- Installation of FGD (Wet lime scrubbing system) to remove SO₂ from the flue gas to minimize air pollution at an approximate cost of about Rs. 775 crore.
- Installation of Roof Top Solar Power Plant (151 KWp, First Phase) as part of renewable energy source to minimize the greenhouse gases at an approximate cost of about Rs.68 Lakhs.
- Fencing of entire coal yard with 15 meters High wind barrier to control the fugitive emission control.
- Coal rake wagons while transportation and coal heaps in coal yard covered with tarpaulin to avoid fugitive emission.
- Utilizing sea water for operation of the power plant, contributing to conservation of precious ground water.
- Landscaping is done with diverse & decorative trees in open areas to maintain healthy environment and Greenery in plant premises.
- Over all green belt developed till 31.03.2026 is 3,80,209 trees in an extent of 309.95 acres. Details of green belt developed during this FY 2025-26 is attached as Annexure 2.
- Adopted best technology in SWRO, by introducing energy recovery system to save energy.
- All internal roads are made-up with bitumen topped, to reduce the fugitive dust emission inside the plant premises.
- 16 nos of A/C were replaced with ecofriendly refrigerant- R-32 which has zero ODP (Ozone Depletion Potential) and its GWP (Global Warming Potential) is 675, which is lower than the GWP of currently used R-22 (ODP 0.055 & GWP 1810).
- Purchased 6 nos of E-scooters during FY 2025-26 to minimize CO₂ emission in the atmosphere.
- Housekeeping is taken up on top priority for maintaining neat and clean environment in the plant premises.
 - Dedicated contract has been given for plant general housekeeping.
 - Daily area wise housekeeping schedule is in place and is being monitored by housekeeping supervisor.
 - Equipment wise periodic cleaning schedule is in place and is being reviewed in daily planning meetings.
 - Vacuum cleaners are also being used to remove fine coal dust from inaccessible areas.

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- Several energy conservation measures were taken during FY 2025-26 to reduce power consumption and thereby reducing carbon emission.
 - Roof top solar power panel - Energy savings of 118311 kwh during this year.
 - Replacement of Conventional Lighting units with LED Lighting units - Energy savings of 94411.6 kWh/year during this year.
 - VFD installed in 1. Jockey Pump - 37 Kw - 1 No & in EC Plant - Rectifier Cooling Water - 22 kW - 1 No - - Energy savings of 19850.6 kWh/year during this year.

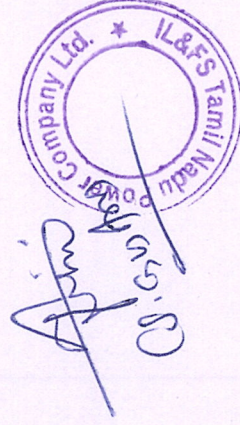


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CONSOLIDATED ANALYSIS REPORT* - FY: 2025-2026

Sl no	Effluent details	Parameters	April'25	May'25	June'25	July'25	Aug'25	Sep'25	Oct'25	Nov'25	Dec'25	Jan'26	Feb'26	March'26	Average
1	Marine Discharge	COD mg/l	154	168	146	160	148	162	146	158	142	154	164	152	155
		BOD mg/l	16	18	15	19	16	18	14	16	14	16	20	15	16
		TSS mg/l	14	10	12	16	20	14	12	16	12	15	12	14	14
2	ETP- Treated Effluent	COD mg/l	10	28	16	20	16	24	42	35	52	34	28	34	28
		BOD mg/l	2	6	4	5	4	5	9	7	10	7	6	7	6
		TSS mg/l	11	9	7	12	7	5	6	4	5	3	14	10	8
		TDS mg/l	650	712	690	582	1152	760	1020	1186	1220	1430	830	660	908
3	Stack 1	PM mg/Nm ³	24.6	19.5	18.2	16.7	18.3	21.2	24.5	SD	SD	SD	19.8	SD	20
		SO ₂ mg/Nm ³	191	158	114	163	154	171	182	SD	SD	SD	172	SD	163
		NO _x mg/Nm ³	347	321	298	241	314	283	321	SD	SD	SD	254	SD	297
4	Stack 2	PM mg/Nm ³	18.6	23.7	20.2	18.6	SD	SD	SD	20.5	19.6	21.7	22.8	18.4	20
		SO ₂ mg/Nm ³	154	176	141	156	SD	SD	SD	175	185	167	186	156	166
		NO _x mg/Nm ³	239	274	176	198	SD	SD	SD	256	267	280	269	294	250

* TNPCB - NABL Accredited Laboratory Analysis Report
SD - Shutdown



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IL&FS Tamilnadu Power Company Limited

Annexure - 2

GREEN BELT DEVELOPMENT - FY 2025-26

Sl. No.	Name of the Locations	Latitude	Longitude	No. of Trees
1	Ash Pond - South Side area - Near Ash Recovery Pump House -East	11° 31' 53.56" N	79° 45' 6.24" E	100
2	Ash Pond - South Side area - Near Ash Recovery Pump House -East	11° 31' 53.44" N	79° 45' 5.68" E	100
3	Ash Pond - South Side area - Near Ash Recovery Pump House -West	11° 31' 53.10" N	79° 45' 2.55" E	550
4	Ash Pond - South Side area - Near Ash Recovery Pump House -West	11° 31' 52.12" N	79° 45' 1.44" E	150
5	Ash Pond - South Side area - Near Ash Recovery Pump House -West	11° 31' 52.33" N	79° 45' 2.65" E	175
6	Ash Pond Gate to Railway Imotion weighbridge	11° 31' 47.00" N	79° 43' 26.69" E	150
7	Ash Pond Gate to Railway Imotion weighbridge	11° 31' 52.42" N	79° 45' 25.88" E	100
8	Ash Pond - East Roadsides	11° 31' 51.78" N	79° 45' 0.76" E	12845
9	Ash Pond - East Roadsides	11° 31' 51.22" N	79° 44' 57.59" E	290
10	Near AAQMS - 4 area	11° 31' 44.34" N	79° 44' 55.39" E	270
11	Near AAQMS - 4 area	11° 31' 44.21" N	79° 44' 55.28" E	150
12	Near AAQMS - 4 area	11° 31' 43.57" N	79° 44' 54.15" E	150

[Handwritten Signature]
C. G. S. S.

