D/C

IL&FS | Energy

IL&FS Tamil Nadu Power Company Limited

Regd. Office :
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ITPCL-S/GEN/24-25/3917

25.09.2024

To

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

மாவட்ட சுற்றுச் சூழல் பொறியாளர் அலுவலகம்
26 SEP 2024
கடலூர்.

Dear Sir,

Sub: Submission of Environmental Statement - Form V for FY 2023 - 24 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 in triplicate for the Financial Year ending 31st March 2024 for our "Coal Based Thermal Power Plant" located at Cuddalore, complying to the conditions of Environmental Clearance dated 31.05.2010.

The receipt for the same may kindly be acknowledged.

Thank 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

FORM V

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

Environmental Statement for the Financial Year ending 31st March 2024

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 4th 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 / 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 (Factory License obtained on 24.08.2015)
5.	Date of the last Environmental Statement submitted	:	27.09.2023

PART-B

WATER AND RAW MATERIAL CONSUMPTION

(i). Sea Water Consumption (m^3/day) : 42481.32*

Process	:	455.53 m^3/day
Cooling	:	41861.67 m^3/day
Domestic	:	164.12 m^3/day

Name of Products		Process Water Consumption per unit of products output	
		During the previous Financial Year (2022-23)	During the current Financial Year (2023-24)
(i)	Electricity	2.18 M^3/MWh	2.08 M^3/MWh

* - Plant running days during this FY was more than the previous financial year.

IL&FS Tamil Nadu Power Company Ltd.

(ii). Raw material Consumption:

*Name of raw materials	Name of products	Consumption of raw material per unit of output	
		During the previous Financial Year (2022-23)	During the current Financial Year (2023-24)
Coal	Electricity	1388407 Ton	4306684.1 Ton
HFO	Electricity	-	-
HSD	Electricity	1047.0 KL	432.9 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 : 22.1 T/day	160.25 mg/l	No deviation
	BOD : 2.5 T/day	17.75 mg/l	No deviation
	TSS : 1.0 T/day	6.75 mg/l	No deviation
	Treated Effluent (TE3+TE4+TE5)		
	COD : 0.009 T/day	25.08 mg/l	No deviation
	BOD : 0.002 T/day	5.75 mg/l	No deviation
	TSS : 0.002 T/day	6.08 mg/l	No deviation
	TDS : 0.262 T/day	770.92 mg/l	No deviation
b. AIR	**STACK #1 EMISSION**		
	SPM : 1.20 T/day	18.12 mg/Nm^3	No deviation
	SO_2 : 11.31 T/day	168.25 mg/Nm^3	No deviation
	NO_X : 15.09 T/day	225.17 mg/Nm^3	No deviation
	STACK #2 EMISSION		
	SPM : 0.95 T/day	19.51 mg/Nm^3	No deviation
	SO_2 : 8.11 T/day	167.44 mg/Nm^3	No deviation
	NO_X : 9.49 T/day	198.89 mg/Nm^3	No deviation

TuticorinTamil Nadu Power Company Ltd.

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 previous Financial Year (2022-23)	During the current Financial Year (2023-24)
(a) From Process			
5.1	Used or Spent Oil	23,360	9,000
5.1	Used or Spent Oil (Used Grease)	360	320
5.2	Wastes or residues containing oil	324	560
35.3	Chemical sludge from waste water treatment	29,440	820
33.1	Empty barrels / containers / liners contaminated with hazardous chemicals/ wastes	3,780	4,828
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 previous Financial Year (2022-23)	During the current Financial Year (2023-24)
(a)	From Process		
	(i) Fly Ash Generation	53,237	1,55,902
	(ii) Bottom Ash Generation	4,414	18,143
(b)	From pollution control facility	Nil	Nil
(c)	(1) Quantity recycled or reutilized within the unit	Nil	Nil
	(2) Sold (Utilised)		
	(a) Fly Ash	53,237	1,55,902

ILBFS Tamil Nadu Power Company Ltd.

	(b) Bottom Ash	4,414	18,143
	(c) Pond Ash	7,891**	20,748**
	(3) Disposed to Ash Dyke		
	(a) Fly Ash	Nil	Nil
	(b) Bottom Ash	Nil	Nil

** Legacy Pond Ash (stored during Covid 19 transport restrictions) was utilised in road construction.

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

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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. Installed FGD for both units during commissioning to control the SOx emission and being operated effectively.
b. Effective operation of Sewage Treatment Plant and reuse the water for gardening.
c. Effective operation of Industrial Waste Water Treatment Plant, Coal Waste Water 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 Waste Water Treatment Plant	
	iii.	Coal Waste Water Treatment Plant	

	iv.	Oil Waste Water Treatment Plant	
	v.	Central Monitoring Basin	
	vi.	Central Effluent Monitoring Basin	
	vii	Ash Water Recovery Pump House	75500.00
	Viii	Cooling Tower	
	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 2023-24		4868.00

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, ambient air quality, ambient noise level and treated effluent quality was periodically monitored by Advanced Environment Lab, TNPCB. ROA 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.

IL&FS Tamil Nadu Power Company Ltd.

- 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 SO_2 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 31.03.2024 is 3,50,169 trees in an extent of 289.60 acres. Details of green belt developed during this FY 2023-24 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.
- Vermi Composting System has been developed to manage the food and garden waste.
- Awareness programs like plantation activities, training programs for employees was conducted in view of World Environment Day.
- Housekeeping is taken up on top priority for maintaining neat and clean environment in the plant premises.
    - Dedicated separate 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 meeting.

IL&FS Tamil Nadu Power Company Ltd.

- Vaccum cleaners are also being used to remove fine coal dust from inaccessible areas.

- Several energy conservation measures taken up during FY 23-24 to reduce power consumption and thereby reducing carbon emission.
- Roof top solar power panel - Energy savings of 209311 kw during this year. 171635 kg of CO_2e emission got reduced by utilizing the solar energy
- VFD in fire fighting Jockey pump - Energy savings of 95599.78 95593.5 kw during this year.
- Replacement of Conventional Lighting units with LED Lighting units - Energy savings of 99631.86 kw 2,24,172.78 during this year.
- Optimization of ESP field firing - Energy savings of 1660720.80 kw during his year.
- Optimization of ESP fluidizing blower temperature - Energy savings of 262508 kw during this year.
- Optimization of ESP hopper heater temperature - Energy savings of 887929.66 kw during this year.
- Optimization of silo fluidizing blower temperature - Energy savings of 84796.80 kw during this year.
- VFD in low leakage fan of FGD - Energy savings of 676438.44 616418.0kw during this year.
- Installation of Standalone security cabins - 5 nos, electrified with solar power, each consist of 2 panels with a capacity of 335 WX2. Energy saving by replacing Conventional lights with Solar lights FY 2023-24: 8258.12 units.6772 kg of CO_2e emission got reduced by utilizing the solar lights cabin.
- Standalone security lights - 10 nos, Solar Street Lights with capacity of 60 W are installed

TAMIL NADU POLLUTION CONTROL BOARD
AMBIENT AIR QUALITY SURVEY – REPORT OF ANALYSIS.

1. Name of the Industry : M/s. IL & FS Tamil Nadu Power Company Ltd,
2. Address of the Industry : C.Pudhupettai Post, Parangipettai Via, Bhuvanagiri Taluk, Cuddalore District – 608 502.
3. Date of Survey : 23.05.2023
4. Duration of Survey : 24 Hours.
5. Category : Ultra/Large.
6. Land use classification : Industrial.

Meteorological Conditions.

Ambient Temperature (°C)	Min	Max	Relative Humidity(%)	Min	Max
	29	36		61	91
Weather condition	Clear		Rain Fall (mm)	-	
Predominant Wind Direction	NE - SW		Mean Wind Speed (Km/hr.)	9.3	

Ambient Air Quality Survey Results

Sl. No.	Location	Direction *	Distance (m)*	Height from GL (m)	Pollutants Concentration (µg/m^3)			
					PM_{10}	$PM_{2.5}$	SO_2	NO_2
1	On top of the Scaffolding Near Rail Siding Weigh Bridge	NE	1310	3	46	34	20	24
2	On top of the Scaffolding Near Track Hopper	E	1000	3	58	-	18	26
3	On top of the Scaffolding Near Transfer Tower #2	SE	1050	3	66	-	22	25
4	On top of the Scaffolding Near IDCT #2	SW	480	3	74	58	30	35
5	On top of the Scaffolding Near Main Security Gate	W	837	3	44	-	12	15
6	On top of the Scaffolding Near rain Water Power House	NW	836	3	46	-	14	20

Dy.CSO

9/6/23
Assistant Director (Lab),
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

STACK MONITORING SURVEY- REPORT OF ANALYSIS

1. Name of the Industry : M/s. IL & FS Tamil Nadu Power Company Ltd,
2. Address of the Industry : C.Pudhupettai Post, Parangipettai Via, Bhuvanagiri Taluk, Cuddalore District – 608 502.
3. Date of Survey : 23.05.2023

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Stack Temp ^{o}K	Velocity in (m/Sec)	Discharge rate in (m^3/hr)	Pollutants (mg/Nm^3)		
					PM	SO_2	NO_x
1	Boiler – 2069 T/h (Unit – I)	436	10.30	1060192	17.75	37	215
2	Boiler – 2069 T/h (Unit – II)	438	12.11	1240805	15.87	43	217

Dy.CSO

Assistant Director (Lab),
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

AMBIENT/SOURCE NOISE LEVEL SURVEY -REPORT OF ANALYSIS.

1	Name of the Industry		M/s. IL & FS Tamil Nadu Power Company Ltd,	
2	Address of the Industry		C.Pudhupettai Post, Parangipettai Via, Bhuvanagiri Taluk, Cuddalore District – 608 502.	
3	Date of Survey		23.05.2023	
Category		U-L	Land use Classification	Industrial
Type of Survey		Ambient	Time of Survey	Day
Meteorological conditions			Calm	

Logging Parameters

Instrument Used		**CASELLA**		Serial No: **5007321**	
Logging Interval		10 Minutes at each point		Measuring Range 50 – 110 dBA	
Weighting	"A"	Peak Weighting	"C"	Time Weighting	FAST
Sound Incidence	Frontal			Time in hrs.	10.00 to 12.15 Hrs

Report of Noise Level Monitoring

Sl. No.	Location	Duration (min)	Distance (m)	Direction	Sound Level-dB(A)		
					Leq	Min	Max
1	Near Ash Pond South West Corner	10	N	1050	53.0	48.4	58.2
2	Near Rail Siding Weigh Bridge	10	NE	1310	52.6	44.5	60.3
3	Near East side Compound Wall	10	E	1000	58.6	53.4	62.5
4	Near Transfer Tower #2	10	SE	1050	55.7	50.2	60.4
5	Near South side Compound wall	10	S	600	53.2	46.5	61.3

Dy.CSO

Assistant Director (Lab),
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

AMBIENT AIR QUALITY SURVEY – REPORT OF ANALYSIS.

1. Name of the Industry : M/s. IL & FS Tamil Nadu Power Company Ltd,
2. Address of the Industry : C.Pudhupettai Post, Parangipettai Via, Bhuvanagiri Taluk, Cuddalore District – 608 502.
3. Date of Survey : 12.12.2023 to 13.12.2023
4. Duration of Survey : 24 Hours.
5. Category : Ultra/Large.
6. Land use classification : Industrial.

Meteorological Conditions.

Ambient Temperature (°C)	Min	Max	Relative Humidity(%)	Min	Max
	29	36		61	91
Weather condition	Clear		Rain Fall (mm)	-	
Predominant Wind Direction	NE - SW		Mean Wind Speed (Km/hr.)	9.3	

Ambient Air Quality Survey Results

Sl. No.	Location	Direction *	Distance (m)*	Height from GL (m)	Pollutants Concentration (µg/m^3)			
					PM_{10}	$PM_{2.5}$	SO_2	NO_2
1	On top of the Scaffolding Near Rail Siding Weigh Bridge	NE	1310	3	62	28	17	20
2	On top of the Scaffolding Near Track Hopper	E	1000	3	70	-	20	24
3	On top of the Scaffolding Near Transfer Tower #2	SE	1050	3	76	-	23	27
4	On top of the Scaffolding Near IDCT #2	SW	480	3	85	52	26	30
5	On top of the Scaffolding Near Main Security Gate	W	837	3	72	-	22	25
6	On top of the Scaffolding Near rain Water Power House	NW	836	3	58	-	16	20

ES

Chief Scientific Officer
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

STACK MONITORING SURVEY- REPORT OF ANALYSIS

1. Name of the Industry : M/s. IL & FS Tamil Nadu Power Company Ltd,
2. Address of the Industry : C.Pudhupettai Post, Parangipettai Via, Bhuvanagiri Taluk, Cuddalore District – 608 502.
3. Date of Survey : 12.12.2023 to 13.12.2023

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Stack Temp ^{o}K	Velocity in (m/Sec)	Discharge rate in (m^3/hr)	Pollutants (mg/Nm^3)		
					PM	SO_2	NO_x
1	Boiler – 2069 T/h (Unit – I)	383	13.65	2037503	19.6	150	249
2	Boiler – 2069 T/h (Unit – II)	381	12.74	1911652	17.54	85	245

ES

12/12/2023

Chief Scientific Officer
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

AMBIENT/SOURCE NOISE LEVEL SURVEY -REPORT OF ANALYSIS.

1	Name of the Industry		M/s. IL & FS Tamil Nadu Power Company Ltd,	
2	Address of the Industry		C.Pudhupettai Post, Parangipettai Via, Bhuvanagiri Taluk, Cuddalore District – 608 502.	
3	Date of Survey		12.12.2023 to 13.12.2023	
Category		U-L	Land use Classification	Industrial
Type of Survey		Ambient	Time of Survey	Day
Meteorological conditions			Calm	

Logging Parameters

Instrument Used		**CASELLA**		Serial No: **5007321**	
Logging Interval		10 Minutes at each point		Measuring Range 50 – 110 dBA	
Weighting	"A"	Peak Weighting	"C"	Time Weighting	FAST
Sound Incidence	Frontal			Time in hrs.	10.00 to 12.15 Hrs

Report of Noise Level Monitoring

Sl. No.	Location	Duration (min)	Distance (m)	Direction	Sound Level-dB(A)		
					Leq	Min	Max
1	Near Ash Pond South West Corner	10	N	1050	60.5	54.5	63.2
2	Near Rail Siding Weigh Bridge	10	NE	1310	58.4	56.4	65.4
3	Near East side Compound Wall	10	E	1000	56.7	53.5	67.5
4	Near Transfer Tower #2	10	SE	1050	56.4	54.0	64.2
5	Near South side Compound wall	10	S	600	58.3	53.2	65.1

ES

Chief Scientific Officer
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 04/121 & 04/122 Dt 24.05.2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	27.04.2023
Nature & Number of samples.	:	2 Number of Trade Effluent samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		27.04.2023 at 12.50 Hrs	Date & Time of sample receipt at the lab	27.04.2023 at 17.00 Hrs	
Point of Collection	1. 2.	ETP Outlet Guard Pond Outlet		Page No 1 of 1	

Sl. No	DEE Code no		KN 04/27	KN 04/28	
	Lab Code no		121	122	Tested as per APHA23rd edition 2017
	Parameters	Unit			
1.	pH @ 25° C	No.	8.6	8.4	APHA 23rdEdn 2017 – 4500 H^+ B
2.	Total Suspended Solids @ 105 C	mg/L	10	12	APHA 23rdEdn2017 – 2540D
3.	Total Dissolved Solids @ 180°C	mg/L	688	42680	APHA 23rdEdn 2017 - 2540 C
4.	Chloride as Cl	mg/L	365	21093	APHA 23rdEdn 2017- 4500 - Cl^- B
5.	Sulphate as SO_4	mg/L	75	2500	APHA 23rdEdn 2017-4500- SO_4^{2-} E
6.	BOD @ 27°C 3 days	mg/L	16.0	80	IS 3025 (Part 44) - 1993 (RA : 2009)
7.	COD	mg/L	48	240	IS 3025 (Part 58) – 2006 (RA 2017)
8.	Sulfide as S	mg/L	<1	<1	APHA 23rdEDt2017-4500 –S^{2-} F

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

7/6/23

Assistant Director (Lab),
TNPCB/AEL/CUDDALORE.

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 04/123 Dt: 24.05.2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	27.04.2023
Nature & Number of samples.	:	1 Number of Sewage samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		27.04.2023 at 12.50 Hrs	Date & Time of sample receipt at the lab	27.04.2023 at 17.00 Hrs	
Point of Collection	1	STP Outlet.		Page No 1 of 1	

Sl No	DEE Code no		KN 04/29	
	Lab Code no		123	Tested as per APHA 23rd Edition 2017
	Parameters	Unit		
1.	pH @ 25° C	No.	8.7	APHA 23rdEdn 2017 - 4500 H^+ B
2.	Total Suspended Solids @ 105 C	mg/L	12	APHA 23rdEdn2017 – 2540D
3.	BOD @ 27°C 3 days	mg/L	32	IS 3025 (Part 44) - 1993 (RA : 2009)
4.	COD	mg/L	64	IS 3025 (Part 58) – 2006 (RA 2017)
5.	Ammonical nitrogen as NH_3-N	mg/L	4.48	APHA 23rdEdn2017 - 4500-NH_3, B, C
6.	Total Kjeldhal Nitrogen	mg/L	6.72	APHA 23rd Edn 2017 - 4500-N_{org}-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

Assistant Director (Lab),
TNPCB/AEL/CUDDALORE.

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 05/236, 05/237 Dt: 03.07.2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	24.05.2023
Nature & Number of samples.	:	2 Number of Trade Effluent samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		24.05.2023 at 14.15Hrs	Date & Time of sample receipt at the lab	24.05.2023 at 17.10Hrs	
Point of Collection	1. 2.	ETP Outlet. Guard Pond Outlet.		Page No 1 of 1	

Sl. No	DEE Code no		KN-05/37	KN-05/38	
	Lab Code no		236	237	Tested as per APHA23rd edition 2017
	Parameters	Unit			
1.	pH @ 25° C	No.	6.06	8.59	APHA 23rdEdn 2017 – 4500 H^+ B
2.	Total Suspended Solids @ 105 C	mg/L	8	14	APHA 23rdEdn2017 – 2540D
3.	Total Dissolved Solids @ 180°C	mg/L	592	50160	APHA 23rdEdn 2017 - 2540 C
4.	Chloride as Cl	mg/L	305	25100	APHA 23rdEdn 2017- 4500 - Cl^- B
5.	Sulphate as SO_4	mg/L	35	6240	APHA 23rdEdn 2017-4500- SO_4^{2-} E
6.	BOD @ 27°C 3 days	mg/L	12.0	20	IS 3025 (Part 44) - 1993 (RA : 2009)
7.	COD	mg/L	40	240	IS 3025 (Part 58) – 2006 (RA 2017)
8.	Sulfide as S	mg/L	<1	<1	APHA 23rdEDt2017-4500 –S^{2-} F

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

Assistant Director (Lab),
TNPCB/AEL/CUDDALORE.

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 05/238 Dt: 03.07.2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	24.05.2023
Nature & Number of samples.	:	1 Number of Sewage samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		24.05.2023 at 14.15 Hrs	Date & Time of sample receipt at the lab	24.05.2023 at 17.10Hrs	
Point of Collection	1.	STP Outlet.		Page No 1 of 1	

Sl. No	DEE Code no		KN 05/ 39	
	Lab Code no		238	Tested as per APHA23rd edition 2017
	Parameters	Unit		
1.	pH @ 25° C	No.	8.22	APHA 23rdEdn 2017 – 4500 H^+ B
2.	Total Suspended Solids @ 105 C	mg/L	10	APHA 23rd Edn2017 – 2540D
3.	BOD @ 27°C 3 days	mg/L	18.0	IS 3025 (Part 44) - 1993 (RA : 2009)
4.	COD	mg/L	48	IS 3025 (Part 58) – 2006 (RA 2017)
5.	Ammoniacal nitrogen as NH_3-N	mg/L	3.92	APHA 23rd Edn 2017 - 4500-NH_3, B, C
6.	Total Kjeldhal Nitrogen	mg/L	10.08	APHA 23rd Edn 2017 - 4500-N_{org}-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

Assistant Director (Lab),
TNPCB/AEL/CUDDALORE.

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 06/319 & 06/320 Dt: 11.07.2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	21.06.2023
Nature & Number of samples.	:	2 Number of Trade samples Effluent	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		21.06.2023 at 14:00 hrs	Date & Time of sample receipt at the lab	21.06.2023 at 16:30 hrs	
Point of Collection	1.	ETP Outlet		Page No 1 of 1	
	2.	Guard pond outled			

Sl. No	DEE Code no		KN 06/14	KN 06/15	
	Lab Code no		319	320	Tested as per APHA23rd edition 2017
	Parameters	Unit			
1.	pH @ 25° C	No.	6.60	8.0	APHA 23rdEdn 2017 – 4500 H^+ B
2.	Total Suspended Solids @ 105 C	mg/L	8.0	6.0	APHA 23rdEdn2017 – 2540D
3.	Total Dissolved Solids @ 180°C	mg/L	840	42168	APHA 23rdEdn 2017 - 2540 C
4.	Chloride as Cl	mg/L	315	17490	APHA 23rdEdn 2017- 4500 - Cl^- B
5.	Sulphate as SO_4	mg/L	112	4340	APHA 23rdEdn 2017-4500- SO_4^{2-} E
6.	BOD @ 27°C 3 days	mg/L	06	10	IS 3025 (Part 44) - 1993 (RA : 2009)
7.	COD	mg/L	40	88	IS 3025 (Part 58) – 2006 (RA 2017)
8.	Sulfide as S	mg/L	1.20	<1	APHA 23rdEDt2017-4500 –S^{2-} F

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

Rajeshwaran.C 26/7

Assistant Director (Lab),
TNPCB/AEL/CUDDALORE.

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 06/321 Dt 11/07/2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	21.06.2023
Nature & Number of samples.	:	1 Number of Sewage samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		21.06.2023 at 14:00 Hrs	Date & Time of sample receipt at the lab	21.06.2023 at 16:30 Hrs	
Point of Collection	1.	STP Outlet.		Page No 1 of 1	

Sl. No	DEE Code no		KN 06/16	
	Lab Code no		321	Tested as per APHA23rd edition 2017
	Parameters	Unit		
1.	pH @ 25° C	No.	7.98	APHA 23rdEdn 2017 – 4500 H^+ B
2.	Total Suspended Solids @ 105 C	mg/L	12	APHA 23rd Edn2017 – 2540D
3.	BOD @ 27°C 3 days	mg/L	6.0	IS 3025 (Part 44) - 1993 (RA : 2009)
4.	COD	mg/L	32	IS 3025 (Part 58) – 2006 (RA 2017)
5.	Ammoniacal nitrogen as NH_3-N	mg/L	3.92	APHA 23rd Edn 2017 - 4500-NH_3, B, C
6.	Total Kjeldhal Nitrogen	mg/L	7.84	APHA 23rd Edn 2017 - 4500-N_{org}-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

Rajeshwaran B 26/7

For Assistant Director (Lab),
TNPCB/AEL/CUDDALORE.

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 07/459 & 07/460 Dt: 27.07.2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	18.07.2023
Nature & Number of samples.	:	2 Number of Trade samples Effluent	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		18.07.2023 at 13:50 hrs	Date & Time of sample receipt at the lab	18.07.2023 at 17:00 hrs	
Point of Collection	1.	ETP Outlet		Page No 1 of 1	
	2.	Guard Pond Outlet			

Sl. No	DEE Code no		KN 07/11	KN 07/12	
	Lab Code no		459	460	Tested as per APHA23rd edition 2017
	Parameters	Unit			
1.	pH @ 25° C	No.	7.23	7.54	APHA 23rdEdn 2017 – 4500 H^+ B
2.	Total Suspended Solids @ 105 C	mg/L	10	10	APHA 23rdEdn2017 – 2540D
3.	Total Dissolved Solids @ 180°C	mg/L	636	568	APHA 23rdEdn 2017 - 2540 C
4.	Chloride as Cl	mg/L	215	175	APHA 23rdEdn 2017- 4500 - Cl^- B
5.	Sulphate as SO_4	mg/L	54	42	APHA 23rdEdn 2017-4500- SO_4^{2-} E
6.	BOD @ 27°C 3 days	mg/L	6.0	4.0	IS 3025 (Part 44) - 1993 (RA : 2009)
7.	COD	mg/L	32	24	IS 3025 (Part 58) – 2006 (RA 2017)
8.	Sulfide as S	mg/L	1.20	1.20	APHA 23rdEDt2017-4500 –S^{2-} F

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

Assistant Director (Lab),
TNPCB/AEL/CUDDALORE.

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 07/461 Dt 27/07/2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	18.07.2023
Nature & Number of samples.	:	1 Number of Sewage samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		18.07.2023 at 13:50 Hrs	Date & Time of sample receipt at the lab	18.07.2023 at 17:00 Hrs	
Point of Collection	1.	STP Outlet		Page No 1 of 1	

Sl. No	DEE Code no		KN 07/13	
	Lab Code no		461	Tested as per APHA23rd edition 2017
	Parameters	Unit		
1.	pH @ 25° C	No.	7.98	APHA 23rdEdn 2017 – 4500 H^+ B
2.	Total Suspended Solids @ 105 C	mg/L	12	APHA 23rdEdn2017 – 2540D
3.	BOD @ 27°C 3 days	mg/L	16.0	IS 3025 (Part 44) - 1993 (RA : 2009)
4.	COD	mg/L	200	IS 3025 (Part 58) – 2006 (RA 2017)
5.	Ammoniacal nitrogen as NH_3-N	mg/L	8.4	APHA 23rd Edn 2017 - 4500-NH_3, B, C
6.	Total Kjeldhal Nitrogen	mg/L	16.8	APHA 23rd Edn 2017 - 4500-N_{org}-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

for Assistant Director (Lab),
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO 08/607 & 08/608 Dt 12.10.2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	08.08.2023
Nature & Number of samples.		2 Number of Trade Effluent sample	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		08.08.2023 at 14.30 Hrs	Date & Time of sample receipt at the lab	08.08.2023 at 16.45 Hrs	
Point of Collection	1. 2.	ETP Outlet Guard Pond Outlet		Page No	1 of 1

Sl. No	DEE Code no		KN 08/06	KN 08/07	
	Lab Code no		607	608	Tested as per APHA23rd edition 2017
	Parameters	Unit			
1.	pH @ 25° C	No.	7.01	7.94	APHA 23rdEdn 2017 – 4500 H^+ B
2.	Total Suspended Solids @ 105 C	mg/L	10	08	APHA 23rdEdn2017 – 2540D
3.	Total Dissolved Solids @ 180°C	mg/L	670	37706	APHA 23rdEdn 2017 - 2540 C
4.	Chloride as Cl	mg/L	265	12920	APHA 23rdEdn 2017- 4500 - Cl^- B
5.	Sulphate as SO_4	mg/L	88	2100	APHA 23rdEdn 2017-4500- SO_4^{2-} E
6.	BOD @ 27°C 3 days	mg/L	12	20	IS 3025 (Part 44) - 1993 (RA : 2009)
7.	COD	mg/L	48	96	IS 3025 (Part 58) – 2006 (RA 2017)
8.	Oil & Grease	mg/L	<2	<2	APHA 23rd Edn 2017-4500-5520-B
9.	Sulfide as S	mg/L	<2.0	<2.0	APHA 23rd EDt2017, 4500 –S^{2-} F

Note: <MDL indicates Less than minimum detectable limit.

Statement to the effect that the results relate only to the items tested.

18/10/23

Deputy Chief Scientific Officer (a/c),

For TNPCB/AEL/CUDDALORE.

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 08/609 Dt 30/08/2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	08.08.2023
Nature & Number of samples.	:	1 Number of Sewage samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		08.08.2023 at 14:30 Hrs	Date & Time of sample receipt at the lab	08.08.2023 at 16:45 Hrs	
Point of Collection	1.	STP Outlet (Treated)		Page No 1 of 1	

Sl. No	DEE Code no		KN 08/08	
	Lab Code no		609	Tested as per APHA23rd edition 2017
	Parameters	Unit		
1.	pH @ 25° C	No.	8.01	APHA 23rdEdn 2017 – 4500 H^+ B
2.	Total Suspended Solids @ 105 C	mg/L	10	APHA 23rdEdn2017 – 2540D
3.	BOD @ 27°C 3 days	mg/L	06	IS 3025 (Part 44) - 1993 (RA : 2009)
4.	COD	mg/L	32	iS 3025 (Part 58) – 2006 (RA 2017)
5.	Ammoniacal nitrogen as NH_3-N	mg/L	5.04	APHA 23rd Edn 2017 - 4500-NH_3, B, C
6.	Total Kjeldhal Nitrogen	mg/L	10.08	APHA 23rd Edn 2017 - 4500-N_{org}-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

31/8

Assistant Director (Lab),
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 09/789, & 09/790 Dt : 30/10/2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	13.09.2023
Nature & Number of samples.	:	2 Number of Trade Effluent samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		13.09.2023 at 14:00 Hrs	Date & Time of sample receipt at the lab	13.09.2023 at 17:00 Hrs	
Point of Collection	1. 2.	ETP Outlet Guard Pond Outlet		Page No 1 of 1	

Sl No	DEE Code No. / Lab Code No. / Parameters	Unit	KN 09/04 / 789	KN 09/05 / 790	Test Method
1.	pH @ 25^{0}C	Number	7.43	7.88	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	04	08	APHA 23rd Edn 2017, 2540 D
3.	Total Dissolved Solids @ 180^{0}C	mg/L	554	39100	APHA 23rd Edn 2017, 2540-C
4.	Chloride as Cl	mg/L	169	26591	APHA 23rd Edn 2017, 4500-Cl B
5.	Sulphate as SO_4	mg/L	59	2603	APHA 23rd Edn 2017 4500-SO_4^{2-}- E
6.	BOD (3 days @ 27^{0}C)	mg/L	08	30	IS 3025 (Part – 44) :1993, Reaff: 2009
7.	COD	mg/L	32	120	IS 3025 (Part – 58), Reaff 2006
8.	Oil & Grease	mg/L	<2	<2	APHA 23rd Edn 2017, 5520 - B
9.	Sulphide	mg/L	0.8	1.2	APHA 23rd Edi 2017-4500 S2-F

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

30/11/23

for Deputy Chief Scientific Officer (a/c),
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 09/791 Dt: 31/10/2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	13.09.2023
Nature & Number of samples.	:	1 Number of Sewage Sample	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		13.09.2023 at 14:00Hrs	Date & Time of sample receipt at the lab	13.09.2023 at 17:00 Hrs	
Point of Collection	1.	STP Outlet (Treated)		Page No 1 of 1	

Sl. No.	DEE Code No. / Lab Code No. / Parameters	Unit	KN 09/06 / 791	Test Method
1.	pH @ 25^{0}C	_	7.85	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	06	APHA 23rd Edn 2017, 2540 D
3.	BOD (3 days @ 27^{0}C)	mg/L	02	IS 3025 (Part – 44) :1993, Reaff: 2009
4.	COD	mg/L	16	IS 3025 (Part – 58), Reaff 2006
5.	Ammonical Nitrogen	mg/L	<2	APHA 23rd Edn 2017-4500-NH3
6.	Total Kjeldahl Nitrogen	mg/L	<2	APHA 23rd Edn 2017-4500-N-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

30/11/23

For Deputy Chief Scientific Officer (a/c),
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 10/1019, & 10/1020 Dt : 08/12/2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	05.10.2023
Nature & Number of samples.	:	2 Number of Trade Effluent samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		05.10.2023at 12:50 Hrs	Date & Time of sample receipt at the lab	05.10.2023at 17:00 Hrs	
Point of Collection	1. 2.	ETP Outlet Guard Pond Outlet		Page No 1 of 1	

Sl No	DEE Code No.	Unit	KN 10/06	KN 10/05	Test Method
	Lab Code No.		1019	1020	
	Parameters				
1.	pH @ 25^{0}C	Number	7.36	7.89	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	10	20	APHA 23rd Edn 2017, 2540 D
3.	Total Dissolved Solids @ 180^{0}C	mg/L	860	33400	APHA 23rd Edn 2017, 2540-C
4.	Chloride as Cl	mg/L	355	22793	APHA 23rd Edn 2017, 4500-Cl B
5.	Sulphate as SO_4	mg/L	92.0	5690	APHA 23rd Edn 2017 4500-SO_4^{2-}- E
6.	BOD (3 days @ 27^{0}C)	mg/L	7	21	IS 3025 (Part – 44) :1993, Reaff: 2009
7.	COD	mg/L	40.0	**	IS 3025 (Part – 58), Reaff 2006
8.	Oil & Grease	mg/L	<2	<2	APHA 23rd Edn 2017, 5520 - B
9.	Sulphide	mg/L	1.6	0.8	APHA 23rd Edi 2017-4500 S2-F

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

**** Interference with analysis**

For Deputy Chief Scientific Officer (a/c),
TNPCB/AEL/CUDDALORE

5/12/23

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 10/1021 Dt: 08/12/2023

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	05.10.2023
Nature & Number of samples.	:	1 Number of Sewage Sample	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		05.10.2023 at 12:50Hrs	Date & Time of sample receipt at the lab	05.10.2023 at 17:00 Hrs	
Point of Collection	1.	STP Outlet		Page No 1 of 1	

Sl. No.	DEE Code No. / Lab Code No. / Parameters	Unit	KN 10/06 / 1021	Test Method
1.	pH @ 25^{0}C	_	8.20	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	12	APHA 23rd Edn 2017, 2540 D
3.	BOD (3 days @ 27^{0}C)	mg/L	8	IS 3025 (Part – 44) :1993, Reaff: 2009
4.	COD	mg/L	40	IS 3025 (Part – 58), Reaff 2006
5.	Ammonical Nitrogen	mg/L	3.36	APHA 23rd Edn 2017-4500-NH3
6.	Total Kjeldhal Nitrogen	mg/L	5.04	APHA 23rd Edn 2017-4500-N-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

For 22/12/23

Deputy Chief Scientific Officer (a/c),
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 11/1193, & 11/1194 Dt : 02/01/2024

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	09.11.2023
Nature & Number of samples.	:	02 Number of Trade Effluent samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		09.11.2023 at 14:00 Hrs	Date & Time of sample receipt at the lab	09.11.2023at 17:00 Hrs	
Point of Collection	1. 2.	ETP Outlet Guard Pond Outlet		Page No 1 of 1	

Sl No	DEE Code No. / Lab Code No. / Parameters	Unit	KN 11/09 / 1193	KN 11/10 / 1194	Test Method
1.	pH @ 25^{0}C	Number	5.33	7.87	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	16	12	APHA 23rd Edn 2017, 2540 D
3.	Total Dissolved Solids @ 180^{0}C	mg/L	868	26708	APHA 23rd Edn 2017, 2540-C
4.	Chloride as Cl	mg/L	415	22393	APHA 23rd Edn 2017, 4500-Cl B
5.	Sulphate as SO_4	mg/L	210	5100	APHA 23rd Edn 2017 4500-SO_4^{2-}- E
6.	BOD (3 days @ 27^{0}C)	mg/L	8	6	IS 3025 (Part – 44) :1993, Reaff: 2009
7.	COD	mg/L	64.0	56.0	IS 3025 (Part – 58), Reaff 2006
8.	Oil & Grease	mg/L	<2	<2	APHA 23rd Edn 2017, 5520 - B
9.	Sulphide	mg/L	<1	<1	APHA 23rd Edi 2017-4500 S2-F

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

3/2/24

for Chief Scientific Officer,
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 11/1195 Dt : 02/01/2024

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board,Cuddalore.		Date of Analysis	09.11.2023
Nature & Number of samples.	:	1 Number of Trade Effluent samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		09.11.2023 at 14:00Hrs	Date & Time of sample receipt at the lab	09.11.2023 at 17:00 Hrs	
Point of Collection	1.	STP Outlet		Page No 1 of 1	

Sl. No.	DEE Code No. / Lab Code No. / Parameters	Unit	KN 11/11 / 1195	Test Method
1.	pH @ 25^{0}C	_	7.43	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	12	APHA 23rd Edn 2017, 2540 D
3.	BOD (3 days @ 27^{0}C)	mg/L	4	IS 3025 (Part – 44) :1993, Reaff: 2009
4.	COD	mg/L	40	IS 3025 (Part – 58), Reaff 2006
5.	Ammonical Nitrogen	mg/L	3.36	APHA 23rd Edn 2017, 4500- NH3
6.	Total Kjeldahl Nitrogen	mg/L	5.04	APHA 23rd Edn 2017-4500-N-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

3/2/24

for Chief Scientific Officer,
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 12/1379 & 12/1380 Dt : 08/02/2024

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board, Cuddalore.		Date of Analysis	19.12.2023
Nature & Number of samples.	:	02 Number of Trade Effluent samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		19.12.2023 at 14:00 Hrs	Date & Time of sample receipt at the lab	19.12.2023 at 18:00 Hrs	
Point of Collection	1. 2.	ETP Outlet Guard Pond Outlet		Page No 1 of 1	

Sl No	DEE Code No. / Lab Code No. / Parameters	Unit	KN 12/19 / 1379	KN 12/20 / 1380	Test Method
1.	pH @ 25^0C	Number	7.46	8.05	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^0C	mg/L	14	14	APHA 23rd Edn 2017, 2540 D
3.	Total Dissolved Solids @ 180^0C	mg/L	770	38160	APHA 23rd Edn 2017, 2540-C
4.	Chloride as Cl	mg/L	215	21493	APHA 23rd Edn 2017, 4500-Cl B
5.	Sulphate as SO_4	mg/L	135	5370	APHA 23rd Edn 2017 4500-SO_4^{2-}- E
6.	BOD (3 days @ 27^0C)	mg/L	28	24	IS 3025 (Part – 44) :1993, Reaff: 2009
7.	COD	mg/L	136	120	IS 3025 (Part – 58), Reaff 2006
8.	Oil & Grease	mg/L	<2	<2	APHA 23rd Edn 2017, 5520 - B
9.	Sulphide	mg/L	<1	<1	APHA 23rd Edi 2017-4500 S2-F

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

18/2/2024

Chief Scientific Officer,
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

ROA NO: 12/1381 Dt :05.02.2024

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board,Cuddalore.		Date of Analysis	19.12.2023
Nature & Number of samples.	:	01 Number of sewage samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		19.12.2023 at 14:00Hrs	Date & Time of sample receipt at the lab	19.12.2023 at 18:00 Hrs	
Point of Collection	1.	STP Outlet		Page No 1 of 1	

Sl. No.	DEE Code No. / Lab Code No. / Parameters	Unit	KN 12/21 / 1381	Test Method
1.	pH @ 25^{0}C	_	7.35	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	14	APHA 23rd Edn 2017, 2540 D
3.	BOD (3 days @ 27^{0}C)	mg/L	10	IS 3025 (Part – 44) :1993, Reaff: 2009
4.	COD	mg/L	48	IS 3025 (Part – 58), Reaff 2006
5.	Ammonical Nitrogen	mg/L	3.92	APHA 23rd Edn 2017, 4500-NH3
6.	Total Kjeldahl Nitrogen	mg/L	5.6	APHA 23rd Edn 2017-4500-N-B

Note: <MDL indicates Less than minimum detectable limit.

Statement to the effect that the results relate only to the items tested.

Chief Scientific Officer,
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONEMENTAL LABORATORY, CUDDALORE
REPORT OF ANALYSIS

ROA NO: 01/1587 & 01/1588 Dt : 01/03/2024

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board,Cuddalore.		Date of Analysis	22.01.2024
Nature & Number of samples.	:	02 Number of Trade Effluent samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		22.01.2024 at 13.20Hrs	Date & Time of sample receipt at the lab	22.01.2024 at 18:00 Hrs	
Point of Collection	1. 2.	ETP Outlet Guard Pond Outlet		Page No 1 of 1	

Sl. No.	DEE Code No. / Lab Code No. / Parameters	Unit	KN 01/12 / 1587	KN 01/13 / 1588	Test Method
1.	pH @ 25^{0}C	_	7.29	7.88	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	16	14	APHA 23rd Edn 2017, 2540 D
3.	Total Dissolved Solids @ 180^{0}C	mg/L	568	38104	APHA 23rd Edn 2017, 2540-C
4.	Chloride as Cl	mg/L	154	19618	APHA 23rd Edn 2017, 4500-Cl B
5.	Sulphate as SO_4	mg/L	95	2120	APHA 23rd Edn 2017 4500-SO_4^{2-}- E
6.	BOD (3 days @ 27^{0}C)	mg/L	20	24	IS 3025 (Part – 44) :1993, Reaff: 2009
7.	COD	mg/L	72	120	IS 3025 (Part – 58), Reaff 2006
8.	Sulphide	mg/L	<1.0	<1.0	APHA 23rd Edn 2017-4500-NH_3C
9.	Oil & Grease	mg/L	<2	<2	APHA 23rd Edn 2017-4500-O-G

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

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13/03/24

Chief Scientific Officer,
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONEMENTAL LABORATORY, CUDDALORE
REPORT OF ANALYSIS

ROA NO: 01/1589 Dt : 20.02.2024

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board,Cuddalore.		Date of Analysis	22.01.2024
Nature & Number of samples.	:	01 Number of sewage samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		22.01.2024 at 13:20 Hrs	Date & Time of sample receipt at the lab	22.01.2024 at 17:00 Hrs	
Point of Collection	1.	STP Outlet		Page No 1 of 1	

Sl. No.	DEE Code No. / Lab Code No. / Parameters	Unit	KN 01/14 / 1589	Test Method
1.	pH @ 25^0C	_	8.01	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^0C	mg/L	12	APHA 23rd Edn 2017, 2540 D
3.	BOD (3 days @ 27^0C)	mg/L	12	IS 3025 (Part – 44) :1993, Reaff: 2009
4.	COD	mg/L	48	IS 3025 (Part – 58), Reaff 2006
5.	Ammonical Nitrogen	mg/L	3.36	APHA 23rd Edn 2017, 4500-NH3
6.	Total Kjeldahl Nitrogen	mg/L	5.04	APHA 23rd Edn 2017-4500-N-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

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01/03/24
Chief Scientific Officer,
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONEMENTAL LABORATORY, CUDDALORE
REPORT OF ANALYSIS

ROA NO: 02/1798 & 02/1799 Dt : 26/03/2024

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board,Cuddalore.		Date of Analysis	26.02.2024
Nature & Number of samples.	:	02 Number of Trade Effluent samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		26.02.2024 at 15.00Hrs	Date & Time of sample receipt at the lab	26.02.2024 at 17:30 Hrs	
Point of Collection	1. 2.	ETP Outlet Guard Pond Outlet		Page No 1 of 1	

Sl. No.	DEE Code No. / Lab Code No. / Parameters	Unit	KN 02/46 / 1798	KN 02/47 / 1799	Test Method
1.	pH @ 25^{0}C	_	7.06	7.86	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	12	10	APHA 23rd Edn 2017, 2540 D
3.	Total Dissolved Solids @ 180^{0}C	mg/L	1226	37690	APHA 23rd Edn 2017, 2540-C
4.	Chloride as Cl	mg/L	529	22118	APHA 23rd Edn 2017, 4500-Cl B
5.	Sulphate as SO_4	mg/L	150	1200	APHA 23rd Edn 2017 4500-SO_4^{2-}- E
6.	BOD (3 days @ 27^{0}C)	mg/L	10	26	IS 3025 (Part – 44) :1993, Reaff: 2009
7.	COD	mg/L	48	136	IS 3025 (Part – 58), Reaff 2006
8.	Sulphide	mg/L	<1	<1	APHA 23rd Edn 2017-4500-NH_3C
9.	Oil & Grease	mg/L	<2	<2	APHA 23rd Edn 2017-4500-O-G

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

ES

04/04/2024

Chief Scientific Officer,
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONEMENTAL LABORATORY, CUDDALORE
REPORT OF ANALYSIS

ROA NO: 02/1800 Dt : 26.03.2024

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board,Cuddalore.		Date of Analysis	26.02.2024
Nature & Number of samples.	:	01 Number of sewage samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		26.02.2024 at 15:00Hrs	Date & Time of sample receipt at the lab	26.02.2024 at 17:30 Hrs	
Point of Collection	1.	STP Outlet		Page No 1 of 1	

Sl. No.	DEE Code No. / Lab Code No. / Parameters	Unit	KN 02/48 / 1800	Test Method
1.	pH @ 25^{0}C	_	8.11	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	12	APHA 23rd Edn 2017, 2540 D
3.	BOD (3 days @ 27^{0}C)	mg/L	10	IS 3025 (Part – 44) :1993, Reaff: 2009
4.	COD	mg/L	40	IS 3025 (Part – 58), Reaff 2006
5.	Ammonical Nitrogen	mg/L	1.12	APHA 23rd Edn 2017, 4500-NH3
6.	Total Kjeldahl Nitrogen	mg/L	2.24	APHA 23rd Edn 2017-4500-N-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

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04/04/2024

Chief Scientific Officer,
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONEMENTAL LABORATORY, CUDDALORE
REPORT OF ANALYSIS

ROA NO: 03/2057 & 03/2058 Dt : 02/05/2024

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board,Cuddalore.		Date of Analysis	28.03.2024
Nature & Number of samples.	:	02 Number of Trade Effluent samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		28.03.2024 at 12.10Hrs	Date & Time of sample receipt at the lab	28.03.2024 at 17:30 Hrs	
Point of Collection	1. 2.	ETP Outlet Guard Pond Outlet		Page No 1 of 1	

Sl. No.	DEE Code No. / Lab Code No. / Parameters	Unit	KN 03/62 / 2057	KN 03/63 / 2058	Test Method
1.	pH @ 25^{0}C	_	6.97	7.94	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	14	12	APHA 23rd Edn 2017, 2540 D
3.	Total Dissolved Solids @ 180^{0}C	mg/L	1168	42960	APHA 23rd Edn 2017, 2540-C
4.	Chloride as Cl	mg/L	415	20993	APHA 23rd Edn 2017, 4500-Cl B
5.	Sulphate as SO_4	mg/L	140	75	APHA 23rd Edn 2017 4500-SO_4^{2-}- E
6.	BOD (3 days @ 27^{0}C)	mg/L	16	10	IS 3025 (Part – 44) :1993, Reaff: 2009
7.	COD	mg/L	64	40	IS 3025 (Part – 58), Reaff 2006
8.	Sulphide	mg/L	<1	<1	APHA 23rd Edn 2017-4500-NH_3C
9.	Oil & Grease	mg/L	<2	<2	APHA 23rd Edn 2017-4500-O-G

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

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Chief Scientific Officer,
TNPCB/AEL/CUDDALORE

TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONEMENTAL LABORATORY, CUDDALORE
REPORT OF ANALYSIS

ROA NO: 03/2059 Dt : 02.05.2024

Name & Address of the sender		District Environmental Engineer, Tamilnadu Pollution Control Board,Cuddalore.		Date of Analysis	28.03.2024
Nature & Number of samples.	:	01 Number of sewage samples	Sample Quantity	Sealed and Fastened in 2.5 L polythene container	
Date & Time of sample collection		28.03.2024 at 12:10 Hrs	Date & Time of sample receipt at the lab	28.03.2024 at 17:30 Hrs	
Point of Collection	1.	STP Outlet		Page No 1 of 1	

Sl. No.	DEE Code No. / Lab Code No. / Parameters	Unit	KN 03/64 / 2059	Test Method
1.	pH @ 25^{0}C	_	6.93	APHA 23rd Edn 2017, 4500 H+ B
2.	Total Suspended solids @ 105^{0}C	mg/L	12	APHA 23rd Edn 2017, 2540 D
3.	BOD (3 days @ 27^{0}C)	mg/L	10	IS 3025 (Part – 44) :1993, Reaff: 2009
4.	COD	mg/L	40	IS 3025 (Part – 58), Reaff 2006
5.	Ammonical Nitrogen	mg/L	1.68	APHA 23rd Edn 2017, 4500-NH3
6.	Total Kjeldahl Nitrogen	mg/L	2.8	APHA 23rd Edn 2017-4500-N-B

Note: <MDL indicates Less than minimum detectable limit.
Statement to the effect that the results relate only to the items tested.

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Chief Scientific Officer,
TNPCB/AEL/CUDDALORE

IL&FS Tamilnadu Power Company Limited

Annexure 2

GREEN BELT DEVELOPMENT - FY 2023-24

Sl. No.	Name of the Locations	Latitude	Longitude	No. of Trees
1	Near Rainwater Pump House	11° 31' 12.7236" N	79° 44' 49.8228" E	50
2	Back Side of Security Office	11° 31' 0.606" N	79° 44' 28.3704" E	50
3	Coal Yard North Side	11° 32' 31.0632" N	79° 45' 27.6732" E	500
4	Kurunkadugal Development Near Ash Pond Gate	11° 31' 49.1628" N	79° 45' 26.1864" E	1000
5	Near CHP & PH-2 Roadside	11° 31' 22.7604" N	79° 45' 12.7008" E	150
6	Ash Pond Roadside	11° 31' 21.36" N	79° 44' 50.3088" E	50
7	Empty pockets of lands at different location and Near STP area	11°31'02.8272" N	79°45'15.5160" E	1300
8	Near STP & Coal Yard 3A	11° 31' 38.8344" N	79° 45' 23.8572" E	400
9	Near Transfer Tower - 5	11° 31' 8.3928" N	79° 45' 23.7816" E	50
10	Ash Pond South Side (Kurunkadugal-2)	11° 32' 33.4536" N	79° 45' 23.886" E	100
11	Ash Pond South Side (Kurunkadugal-2)	11°31' 43.4964" N	79°45'39.0276" E	550
12	Ash Pond South Side	11° 30' 49.2048" N	79° 44' 27.1104" E	10300
13	Kurunkadugal-2	11°31' 52.3668" N	79° 45' 15.8004" E	250

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