



Tamilnadu Petroproducts Limited

TPL\ECH-PO\FORM-V\2026

01st Sep 2026

To.

The Joint Chief Environmental Engineer(M),
Tamil Nadu Pollution Control Board,
950/1, Poonamalle High Road,
Arumbakkam,
Chennai- 600 106.

Dear Sir,

Sub: TPL – ECH-PO Plant - Environmental Statement (Form V) 2025– 26

We herewith submit Environmental Statement (FORM – V) for the period of April 2025 - March 2026 pertaining to TPL – ECH – PO Plant for your kind reference and record.

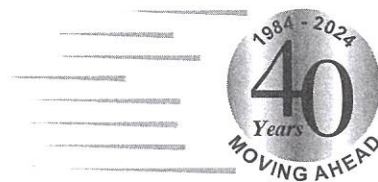
Thanking you,

Yours faithfully,
For Tamilnadu Petroproducts Limited

N.Murugan
VP- Operations



Cc: The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
Voora Oceans27, 1st Floor, Surya Narayana Street,
Ennore Express Road, Tondiarpet, Tollgate,
Chennai-600081.



Regd. Office & Factory :
Manali Express Highway, Manali, Chennai - 600 068, India.
Tel. : (0091) - 44 - 25945500 to 09 Website : www.tnpetro.com
CIN : L23200TN1984PLC010931
TPL GSTIN : 33AACT1295M1Z6



Tamilnadu Petroproducts Limited

TPL\ECH-PO\FORM-V\2026

01st Sep 2026

To.

The Joint Chief Environmental Engineer(M),
Tamil Nadu Pollution Control Board,
950/1, Poonamalle High Road,
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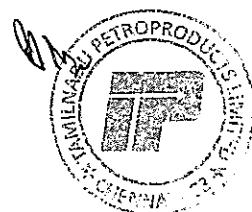
FORM - V

(See Rule 14)

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR
ENDING THE 31st MARCH 2026**

PART - A

I	Name & Address of the owner/ Occupier of the Industry, Operation or process.	Mr. D. Senthikumar Managing Director, Tamilnadu Petroproducts Limited Manali Express Highway, Manali Chennai - 600 068	
II	Industry Category Primary (SIC Code) Secondary Code (SIC Code)	Petrochemical ECH – Propylene oxide	
III	Production Capacity	Products	MT/Month
		Propylene Oxide	1350 MT
		Chlorinated Organics	202.5 MT
IV	Year of Establishment	2019	
V	Date of the last environmental statement submitted	25.09.2025	



PART - B

WATER AND RAW MATERIAL CONSUMPTION

WATER CONSUMPTION:-

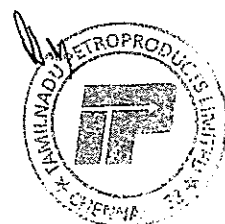
PURPOSE	m^3 / DAY	
	2024 – 2025	2025 – 2026
Process	1740.5	1656
Cooling	320.7	290
Domestic	8.5	8.0

PROCESS WATER CONSUMPTION:-

Name of the Products	Process water consumption per unit of product output m^3 / MT	
	During the last Financial year (2024 – 2025)	During the current Financial year (2025 – 2026)
Propylene Oxide	63.75	78.65

RAW MATERIAL CONSUMPTION:-

Name of the Raw Material	Name of the Product	Consumption of raw material per unit of output, MT / MT	
		During the last Financial year (2024 – 2025)	During the current Financial year (2025 – 2026)
Propylene	Propylene Oxide	0.882	0.869
Chlorine		1.430	1.432
Lime		1.260	1.161



PART - C

POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT
(Parameter as specified in the consent issued.)

Treated Trade Effluent :-

Pollutants	Prescribed Quantity of pollutants discharge (Kg/Day)	Quantity of pollutants discharged (Kg/Day)	Percentage of variation from prescribed standard with reasons
pH	5.5 – 9.0	7.14	Within the standards
TDS	----	----	
TSS	180.5	38.73	
Chlorides (as Cl)	----	----	
Sulphates (as SO ₄)	1805	201.25	
BOD	180.5	17.99	
COD	451.25	171.43	
Oil & Grease	36.1	BLQ	
Phenolic Compound	1.805	<0.005	
Fluoride	3.61	1.95	
Chromium	3.61	0.44	
TRC	1.805	BLQ	

Treated Sewage Effluent *

Pollutants	Prescribed Quantity of pollutants discharge (Kg/Day)	Quantity of pollutants discharged (Kg/Day)	Percentage of variation from prescribed standard with reasons
pH	5.5 – 9.0	7.96	Within the standards
TSS	2.1	1.55	
BOD	1.4	0.65	

Emission

Stack Attached to	Prescribed Quantity of pollutants discharge [T/Day]				Quantity of pollutants discharged [T/Day]				Percentage of variation from prescribed standard with reasons.
	PM	SO ₂	NOx	CO	PM	SO ₂	NOx	CO	
Boiler	0.0027	0.014	0.096	0.041	0.0005	0.0005	0.010	0.0011	Within the standards
Chlorine Scrubber	Chlorine		0.0003		Chlorine		0.000025		



Ambient Air Quality

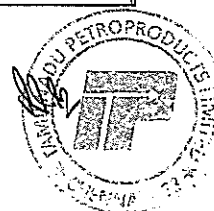
No	Parameter, $\mu\text{gm} / \text{m}^3$	Prescribed standard,	Concentration of Pollutants	Percentage of variation from prescribed standard with reasons
1	Particulate Matter, PM_{10} , $\mu\text{gm} / \text{m}^3$	100	68.9	Nil
2	Particulate Matter, $\text{PM}_{2.5}$, $\mu\text{gm} / \text{m}^3$	60	33.80	Nil
3	Sulphur Dioxide, $\mu\text{gm} / \text{m}^3$	80	11.20	Nil
4	Oxides of Nitrogen, $\mu\text{gm} / \text{m}^3$	80	15.40	Nil
5	Carbon Monoxide, (8 hr avg) mg/m^3	4	BDL	Nil
6	Lead, $\mu\text{gm} / \text{m}^3$	1.0	BDL	Nil
7	Ozone, $\mu\text{gm} / \text{m}^3$	180	18.65	Nil
8	Ammonia, $\mu\text{gm} / \text{m}^3$	400	17.80	Nil
9	Benzene, $\mu\text{gm} / \text{m}^3$	5.0	BDL	Nil
10	Benzo (a) pyrene , ng / m^3	1.0	BDL	Nil
11	Arsenic, ng / m^3	6.0	BDL	Nil
12	Nickel, ng / m^3	20.0	BDL	Nil

PART – D

HAZARDOUS WASTE

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

	Total Quantity	
	During the current Financial year (2024 – 2025)	During the current Financial year (2025 – 2026)
(A) From Process		
Used Spent Oil, MT	0.0	1.93
Waste Oil, MT	8.13	110.06
Empty Barrel MT	0	0
(B) From pollution control facility		
ETP Sludge, MT	205.0	281.43



PART - E
SOLID WASTE

	<i>Total Quantity</i>	
	<i>During the current Financial year (2024 – 2025)</i>	<i>During the current Financial year (2025 – 2026)</i>
a) From process, MT	7310.6	3489.86
b) Pollution control facility, MT.	Nil	Nil
c) Quantity recycled or reutilised.	Nil	Nil
d) Sold, MT	7310.6	3489.86
e) Disposed.	Nil	Nil

PART - F

Please specify the characterisation (in terms of composition and Quantum) of Hazardous as well as Solid waste and indicate disposal practice adopted for both these categories of wastes).

1. Hazardous Waste Category No: Schedule 1, S.No: 5.1 – Used / Spent Oil

Quantity : 1.93 MT
Composition : Used Lube Oil
Disposal practice : Disposed to SPCB authorised recycler.

2. Hazardous Waste Category No: Schedule 1, S.No: 5.2 – Waste containing Oil

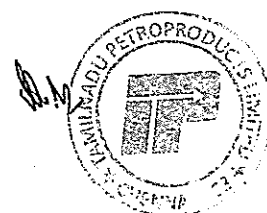
Quantity : 110.06 MT
Composition : Oil with water.
Disposal practice : Disposed to SPCB authorised TSDF.

3. Hazardous Waste Category No: Schedule 1, S.No: 35.3 – ETP Sludge

Quantity : 281.43 MT
Composition : ETP Sludge
Disposal practice : Disposed to SPCB authorised landfill facility TSDF.

4. Hazardous Waste Category No: Schedule 1, S.No: 33.1 – Discarded Empty Barrels

a) Quantity : 0.0 MT
b) Composition : Empty barrel
c) Disposal practice : Sent to authorised recycler



PART - G

Impact of the Pollution abatement measures taken as conservation of natural resources and the cost of production.

- ✓ Roof top solar panels have been installed for the power 200kw to enhance the renewable power usage.
- ✓ Migrated to cleaner fuel in Boiler from FO to R-LNG .Regasified Liquefied Natural Gas (R-LNG) It is being used as fuel in Boiler resulted in reduction in emission load.
- ✓ Energy consumption reduction achieved, with installation of an additional heat exchanger to recover waste heat.
- ✓ Energy savings realized through various initiatives: 1) Replacing existing light fixtures with high-efficiency LED fixtures, and 2) De-rating of pumps
- ✓ Tertiary Treated Reverse Osmosis (TTRO) water from Chennai Metro Water Supply and Sewerage Board is being used instead of Metro water thus by achieving reduction of effluent generation and fresh water conservation.
- ✓ Rejects from LAB - RO Plant and treated effluent from HCD plant are being utilised in process as fresh water conservation measure.
- ✓ Cooling Tower blowdown and part of water treatment plant regeneration effluent is being utilised in the process as a water conservation measure.
- ✓ Entire quantity of treated effluent from sewage treatment plant is utilised for gardening and cooling tower make up water.
- ✓ Continuous Ambient Air Quality Monitoring station is provided for monitoring PM_{2.5}, PM₁₀, Chlorine and VOC in ambient air and monitoring data has been uploaded to TNPCB server.
- ✓ Online Continuous Emission Monitoring System (OCEMS) along with data uploading facility is provided in the stack attached to Boiler for the parameter PM, SO₂, NO_x, and CO and monitoring data has been connected to TNPCB server.
- ✓ Online Continuous Monitoring System (OCEMS) is provided in the stack attached to Chlorine Scrubber for Chlorine parameter and monitoring data has been connected to TNPCB server.
- ✓ Online Continuous Effluent Monitoring System (OCEMS) is provided for monitoring pH, Flow meter, TSS, BOD and COD in the ETP – treated effluent outlet and monitoring data has been connected to CAC, TNPCB.
- ✓ Online flow meters are provided at inlet to ETP and Inlet to Process from LAB - RO Reject & HCD - Treated effluent and monitoring data has been connected to TNPCB for continuous monitoring.



PART - H

Additional investment proposal for environment protection including abatement of pollution

- ZLD feasibility study by CSIR-NEERI for maximum utilization of treated effluent under progress

PART - I

Any other Particulars for improving the Quality of the Environment

- ***Green Belt Development:*** 1500nos of Trees saplings were planted inside and outside of the factory premises.
- Be a socially responsible entity, we have been maintaining the green belt area of around 13.39 acres which is developed during 2022-23 at Morai village, Pāndeswaram village, Tiruvallur District and Korattur lake bund.
- Mission LiFE -Lifestyle of Environment.” awareness programme conducted for employees and their declarations have received towards LiFE action points.



PRODUCTION

April 2025 to March 2026

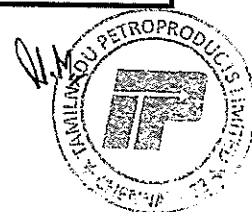
S.No	PRODUCTS	2025- 2026
1	Propylene Oxide, MT	3870.00
2	Chlorinated Organics, MT	654.0



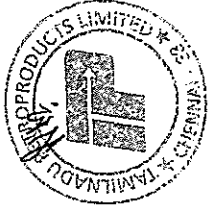
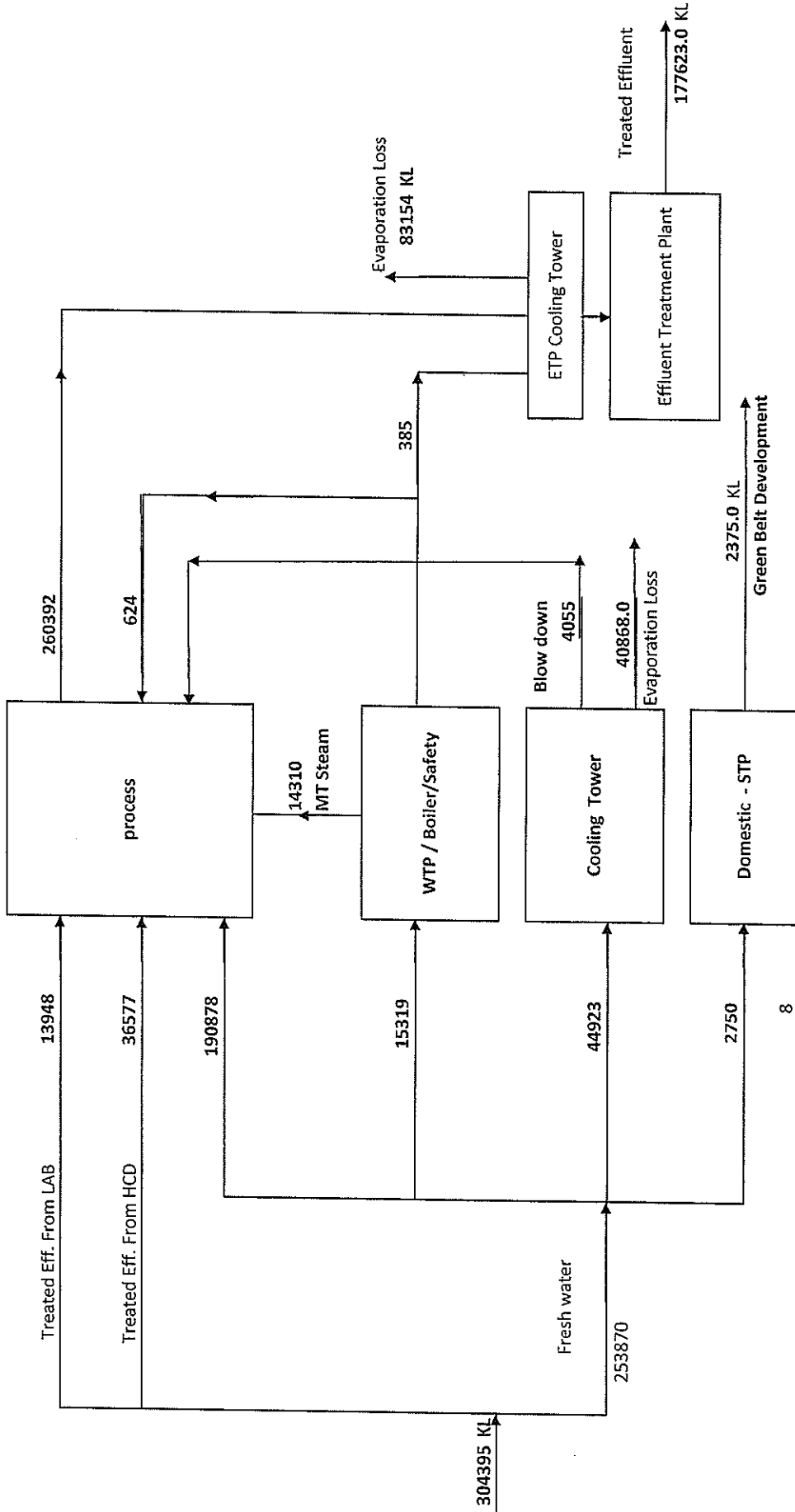
WATER CONSUMPTION

April 2025 to March 2026

Month	Consumption (KL)					Total Consumption (KL)
	Process			Cooling	Domestic	
	Fresh Water	Treated Eff From LAB	Treated Eff From HCD			
Apr-25	41615	1215	3580	8456	205	55071
May-25	44868	1207	3496	8277	235	58083
Jun-25	48522	1205	3550	8618	220	62115
Jul-25	38379	1276	3497	8035	200	51387
Aug-25	44975	1337	3554	8402	205	58473
Sep-25	44715	1233	3607	8552	220	58327
Oct-25	44471	1289	3522	8469	205	57956
Nov-25	21409	1165	3543	8485	180	34782
Dec-25	13413	728	1564	6719	235	22659
Jan-26	47942	1307	3682	8565	205	61701
Feb-26	47725	1218	4122	8446	240	61751
Mar-26	45664	1205	3778	8418	285	59350
	483698	14385	41495	99442	2635	641655
	539578			99442	2635	641655



ECH - PO - WATER BALANCE FOR THE PERIOD FROM APRIL 2025 to MAR 2026



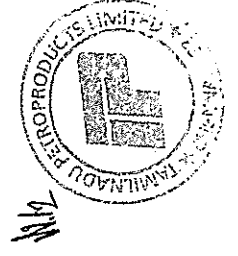
RAW MATERIAL CONSUMPTION

April 2025 to March 2026

S.No	RAW MATERIAL	2025 - 2026
1	Propylene, MT	3363
2	Chlorine, MT	5543
3	Lime, MT	4994



Annexure-5	
TAMILNADU PETROPRODUCTS LIMITED	
TPL- ECH PO Material Balance - FY 25-26	
PO MATERIAL BALANCE Evaporation Loss 132342 Propylene 3363 Chlorine 5543 Lime 4994 Water 304395	Propylene oxide 3870 DCP 654 Purge gas 315 Liquid Effluent 177623 Solid effluent 3490





TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

AMBIENT AIR QUALITY SURVEY -- Report of Analysis

Report No. 31/AAQS/2026-2027

Date: 28.09.2026

1. Name of the Industry : M/s. TPL (ECH),
2. Address of the Industry : Manali Express Highway, Manali, Chennai - 68.
3. Date of Survey : 21.09.2026
4. Duration of Survey : 8 Hours / 24 hours
5. Category : Red / Orange / Green – Large / Medium / Small
6. Land use classification : Industrial / Commercial / Residential / Sensitive

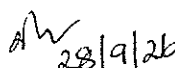
Meteorological Conditions

Ambient Temperature (°C)	Min	Max	Relative Humidity (%)	Min	Max
	30	34		69	78
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	NE-SW		Mean Wind Speed (km/hr)	17.8	

Ambient Air Quality Survey Results

Sl. No.	Location	Direction *	Distance (m) *	Height Form GL (m)	Pollutants Concentration				
					(microgram / m ³)				ppm
					PM 2.5	PM 10	SO ₂	NO ₂	Cl ₂
1	On top of platform near CP Station II	NE	150	3.0	30	64	7	14	<0.05
2	On top of platform near Propylene Oxide Filling Point	E	280	3.0	--	68	5	14	<0.05
3	On top of platform near STP (Gate No 5)	SE	700	3.0	--	75	11	21	<0.05
4	On top of platform near ERC Building (Gate No 3)	SW	200	3.0	48	88	12	24	<0.05
5	On top of platform near Flare Area	NW	240	3.0	--	67	8	18	<0.05
Standard Limit as per NAAQS 2009 vide No.B-29016/20/90PCI-L dated:18.11.2009					60	100	80	80	-
Time Weight Average of 8 Hours as per Indian Factories Act, 1948					-	-	-	-	1

Note: * With respect to major emission sources. The analytical results are restricted to the sampling period of 8 hrs/24hrs


 Chief Scientific Officer,
 District Environmental Laboratory
 Tamil Nadu Pollution Control Board
 Manali

Test Performed	Test Method
PM10	IS 5182 : (Part 23) – 2006
SO2	Modified West – Gaeke / IS 5182 : (Part 2/Sec 1):2023
NO2	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA:2012
Cl	IS 5182 : (Part 19) – 2022



TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

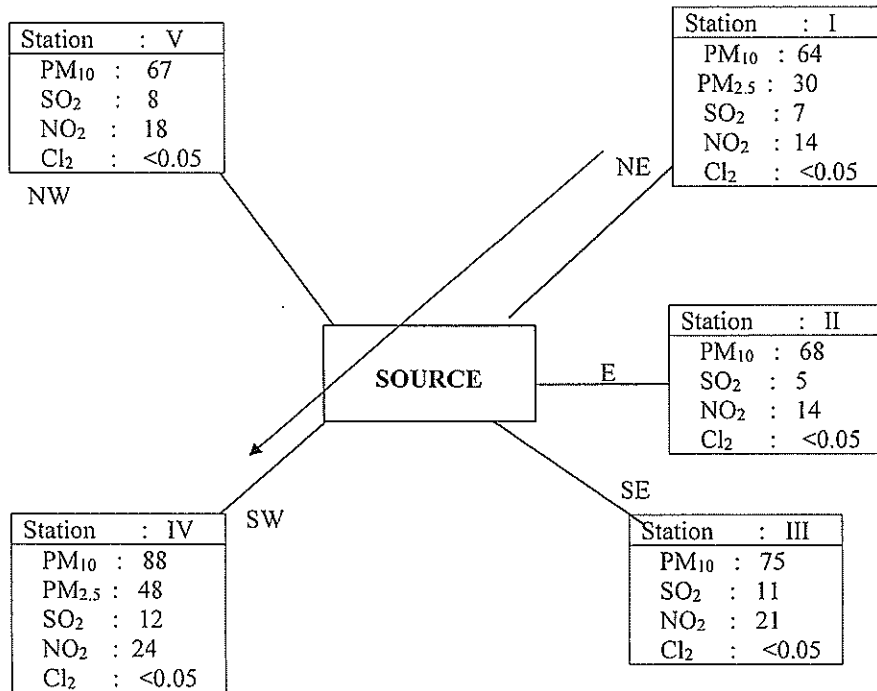
AMBIENT AIR QUALITY SURVEY

Schematic Diagram Showing Location of Sampling

Report No. 31/AAQS/2026-2027

Name and Address of the Industry : **M/s. TPL (ECH)**
Manali Express Highway, Manali, Chennai – 68.

Date of Survey : 21.09.2026



Note: All the values are expressed in $\mu\text{g}/\text{m}^3$ and restricted to sampling period of 8 hrs/24hrs

Meteorological Conditions:	
Predominant Wind Direction	NE-SW
Wind Speed (Km/hr)	17.8
Weather Condition	Partially Cloudy
Rainfall	Nil

aw
23/9/26
Chief Scientific Officer,
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali



TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

STACK MONITORING SURVEY – Report of Analysis

Report No. 31/AAQS/2026-2027

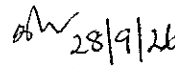
Date: 28.09.2026

1. Name of the Industry : **M/s. TPL (ECH),**
2. Address of the Industry : **Manali Express Highway, Manali, Chennai – 68**
3. Date of Survey : **21.09.2026**
4. Type of Industry : **Coal/Chemical/Sugar/Paper & Pulp/
Power plant / Textile Processing**

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Fuel used	Stack Temp °K	Velocity in (m/sec)	Discharge rate In Nm³/hr	Pollutants (mg / Nm³)			
						PM	SO ₂	NO _x	Cl ₂
1	Boiler 12.5 T	LNG	439	8.4	7507	1.8	2.1	30.1	--
2	Vent Gas Scrubber	--	313	6.9	406	2.6	--	--	1.1
<i>Standard Limit as per G.S.R. 820 (E) dated 09.11.2012</i>						5	50	250	-
<i>Standard Limit as per G.S.R. 194 (E) dated 26.03.2025</i>						-	-	-	5

Test Performed	Test Method
PM10	IS 11255 : (Part 1) – 1985
SO ₂	IS 11255 : (Part 2) – 1985
NO ₂	IS 11255 : (Part 7) – 2005
Cl	IS 5182 : (Part 19) – 2022


Chief Scientific Officer,
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali



TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

1. Name and Address of the Industry : **M/s. TPL (ECH)**
Manali Express Highway, Manali, Chennai – 68

2. Date of Survey : 21.09.2026

Sl. No.	Particulars	1	2
1.	Stack attached to	Boiler	Vent gas scrubber
2.	Details of process stack	Boiler 12.5T	Vent gas scrubber
3.	Height from G Level in (m)	47.4	30.0
4.	Diameter in (m)	0.65	0.17
5.	Port hole height from Ground Level or bends or ducts in (m)	20.35	13.25
6.	Fuel Used (with % Sulphur content)	LNG	--
7.	Fuel Consumption rate per hr (mention units)	231.7 m ³ /hr	--
8.	Type of Stack and capacity	Round	Round
9.	Production on 28.07.2025	Propylene Oxide – 28.526 MT	
10.	APC Measures provided	Stack provided with low No _x Burner	Scrubber
11.	APC functional status	Functioning	Functioning
12.	Ambient temp in °K	307	308
13.	Temp of flue gas in °K	439	313
14.	Velocity of flue gas in m/sec	8.4	6.9
15.	Volume of flue gas sampled in m ³	1.051	1.031
16.	Gaseous Discharge rate per day in Nm ³ /hr	7507	406

AW 28/9/26
Chief Scientific Officer,
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali



TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

STACK MONITORING SURVEY – Additional details

Report No. 31/SM/2026-2027

Date: 28.09.2026

1. Name of the Industry : M/s. TPL (ECH)
2. Address of the Industry : Manali Express Highway, Manali, Chennai – 68
3. Date of Survey : 21.09.2026
4. Type of Industry : Coal/Chemical/Sugar/Paper & Pulp/
Power plant / Textile Processing

Stack Monitoring Additional details

Sl. No.	Details of stack mentioned in the Air Consent order	Details of stack available and in working condition	Details of stack for which stack Emission sampling have been done	Justification for the left out of stack Emission Sampling
1.	Boiler 12.5T	Working	Sampling Done	--
2.	Vent Gas Scrubber	Working	Sampling Done	--

AW 28/9/26
Chief Scientific Officer,
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali



TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

AMBIENT/SOURCE NOISE LEVEL SURVEY - Report of Analysis

Report No. 31/NLS/2026-2027

Date: 28.09.2026

1.	Name of the Industry	M/s. TPL (ECH)	
2.	Address of the Industry	Manali Express Highway, Manali, Chennai - 68	
3.	Date of Survey	21.09.2026	
Category		RL	Land use Classification
Type of Survey		Ambient/Source	Time of Survey
Meteorological conditions		Calm/Windy/Rainy	Industrial
			Day
			Windy

Logging Parameters

Instrument Used	CESVA Model SC310	Serial No	T243103
Logging Interval	10 Minutes each point	Measuring Range	50-110 dB(A)
Weighting	"A"	Peak Weighting	"C"
Sound Incidence	RANDOM		Time in hrs
			14.00 – 15.30

Report of Noise Level Monitoring

Sl No	Location	Duration (min)	Distance (M)	Direction	Sound Level – dB (A)		
					L _{eq}	Min	Max
1	Near CP Station II	10	150	NE	62.9	58.5	77.8
2	Near Propylene Oxide Filling Point	10	280	E	60.4	56.1	73.1
3	Near STP (Gate No.5)	10	700	SE	60.2	56.4	70.1
4	Near ERC Building (Gate No 3)	10	200	SW	66.4	61.3	80.5
5	Near Flare Area	10	240	NW	61.3	56.7	75.5

Note: L_{eq} value is the average energy for the measured period.

AW
28/9/26

**Chief Scientific Officer,
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali**



TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

INFERENCE REPORT ON A.A.Q.S./ S.M.

1. Name of Industry : M/s. TPL (ECH)
2. Pollution Category : Red Large
3. Date of A.A.Q. Survey : 21.09.2026
4. Predominant Wind Direction : NW-SW
5. Weather condition : Partially Cloudy

STATUS OF POLLUTANTS LEVEL

I. AMBIENT AIR QUALITY :-

1. Total No. of A.A.Q. stations monitored : 5
2. No. of A.A.Q. stations in which Pollutants
Level exceeded the Boards standards : Nil

Maximum and Minimum values of Pollutants Level observed:

Sl. No.	POLLUTANT	Values in microgram/m ³		BOARD's STANDARD (As per consent order)
		Maximum	Minimum	
1.	PM ₁₀	88	64	100
	PM _{2.5}	48	30	60
2.	<u>GASEOUS</u> <u>POLLUTANTS:-</u>			
	(i) SO ₂	12	5	80
	(ii) NO ₂	24	14	80

II. STACK MONITORING:-

1. Total No. of Stacks Monitored : 2
2. No. of Stacks in which Pollutants level
Exceeded the Boards standards : Nil

aw
28/9/26
Chief Scientific Officer,
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali



TAMIL NADU POLLUTION CONTROL BOARD
DISTRICT ENVIRONMENTAL LABORATORY – MANALI

TVOC Survey – Report of Analysis

Report No.31 /TVOC/2026-2027

dated : 28.09.2026

1. Name of the Industry : M/s. TPL (ECH)
2. Address of the Industry : Manali Express Highway, Manali, Chennai - 68
3. Date of Survey : 21.09.2026
4. Pollution Category : Red Large

TVOC – Analysis Report

Sl.No.	Location	Direction	Distance (mts)	TVOC (ppm)
1	Near CP Station II	NE	150	0.0
2	Near Propylene Oxide Filling Point	E	280	0.0
3	Near STP (Gate No.5)	SE	700	0.0
4	Near ERC Building (Gate No 3)	SW	200	0.0
5	Near Flare Area	NW	240	0.0

A/W 28/9/26
Chief Scientific Officer,
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali