



Tamilnadu Petroproducts Limited

TPL\ECH-PO\FORM-V\2024

10th September 2024

To.

The Joint Chief Environmental Engineer,
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) 2023– 24

We herewith submit Environmental Statement (FORM – V) for the period of April 2023 - March 2024 pertaining to TPL – ECH – PO Plant for your kind reference and record.

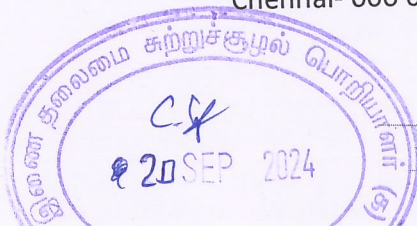
Thanking you,

Yours faithfully,
For Tamilnadu Petroproducts Limited

N.Murugan
VP- Operations



Cc: The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
77A, South Avenue Road,
Ambattur Industrial Estate,
Ambattur,
Chennai- 600 058.



Regd. Office & Factory :
Post Box No. 9, Manali Express Highway, Manali,
Chennai - 600 068, India.
Tel. : (0091) - 44 - 25945500 to 09 Telefax : 044-2594 5588
Website : www.tnpetro.com CIN : L23200TN1984PLC010931
TPL GSTIN : 33AAACT1295M1Z6

FORM - V

(See Rule 14)

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR
ENDING THE 31st MARCH 2024**

PART - A

I	Name & Address of the owner/ Occupier of the Industry, Operation or process.	Mr. D. Senthikumar Whole Time Director – Operation. 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	27.09.2023	



PART - B

WATER AND RAW MATERIAL CONSUMPTION

WATER CONSUMPTION:-

PURPOSE	m ³ / DAY	
	2022 – 2023	2023 – 2024
Process	1648.0	1650.9
Cooling	291.0	315.4
Domestic	9.15	9.31

PROCESS WATER CONSUMPTION:-

Name of the Products	Process water consumption per unit of product output m ³ / MT	
	During the Financial year (2022 – 2023)	During the current Financial year (2023 – 2024)
Propylene Oxide	53.08	58.77

RAW MATERIAL CONSUMPTION:-

Name of the Raw Material	Name of the Product	Consumption of raw material per unit of output, MT / MT	
		During the Financial year (2022 – 2023)	During the current Financial year (2023 – 2024)
Propylene	Propylene Oxide	0.876	0.877
Chlorine		1.45	1.442
Lime		1.242	1.247



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	7.04	Within the standards
TDS	----	----	
TSS	180.5	37.33	
Chlorides (as Cl)	----	----	
Sulphates (as SO ₄)	1805	773.98	
BOD	180.5	17.23	
COD	451.25	132.11	
Oil & Grease	36.1	BLQ	
Phenolic Compound	1.805	<0.005	
Fluoride	3.61	2.87	
Chromium	3.61	< 0.0045	
TRC	1.805	0.29	

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	7.60	Within the standards
TSS	2.1	0.89	
BOD	1.4	0.39	

Emission

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	0.0001	0.0012	0.0027	0.002	Within the standards
Chlorine Scrubber	Chlorine		0.0003		Chlorine		0.000077		



TPL – ECH – PO Plant

(B) From pollution control facility		
ETP Sludge, MT	297.0	275.0

**PART - E
SOLID WASTE**

	Total Quantity	
	During the Financial year (2022 – 2023)	During the current Financial year (2023 – 2024)
a) From process, MT	7965.29	7632.0
b) Pollution control facility, MT.	Nil	Nil
c) Quantity recycled or reutilised.	Nil	Nil
d) Sold, MT	7965.29	7632.0
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: 5.2 - Used / Spent Oil

Quantity : 0.0 MT
Composition : Used Lube Oil
Disposal practice : Disposed to SPCB authorised recycler.

2. Hazardous Waste Category No: Schedule 1, S.No: 5.1 – Waste Oil

Quantity : 0.0 MT (DG Not in operation)
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 : 275 MT
Composition : ETP Sludge
Disposal practice : Disposed to SPCB authorised landfill facility.

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

a) Quantity : 1.01 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.

- ✓ 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.



TPL – ECH – PO Plant

PART - H

Additional investment proposal for environment protection including abatement of pollution

- Mandate issued to CSIR-NEERI for ZLD feasibility study for maximum utilization of treated effluent.

PART - I

Any other Particulars for improving the Quality of the Environment

- ***Green Belt Development:*** 1500 nos 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 15.14 acres which is developed during 2022-23 at Morai village, Pandeswaram village and Grandlyon villages, Tiruvallur District
- Mission LiFE -Lifestyle of Environment.” awareness programme conducted for employees and their declarations have received towards LiFE action points.



PRODUCTION

April 2023 to March 2024

S.No	PRODUCTS	2023- 2024
1	Propylene Oxide, MT	12269.00
2	Chlorinated Organics, MT	2119.0



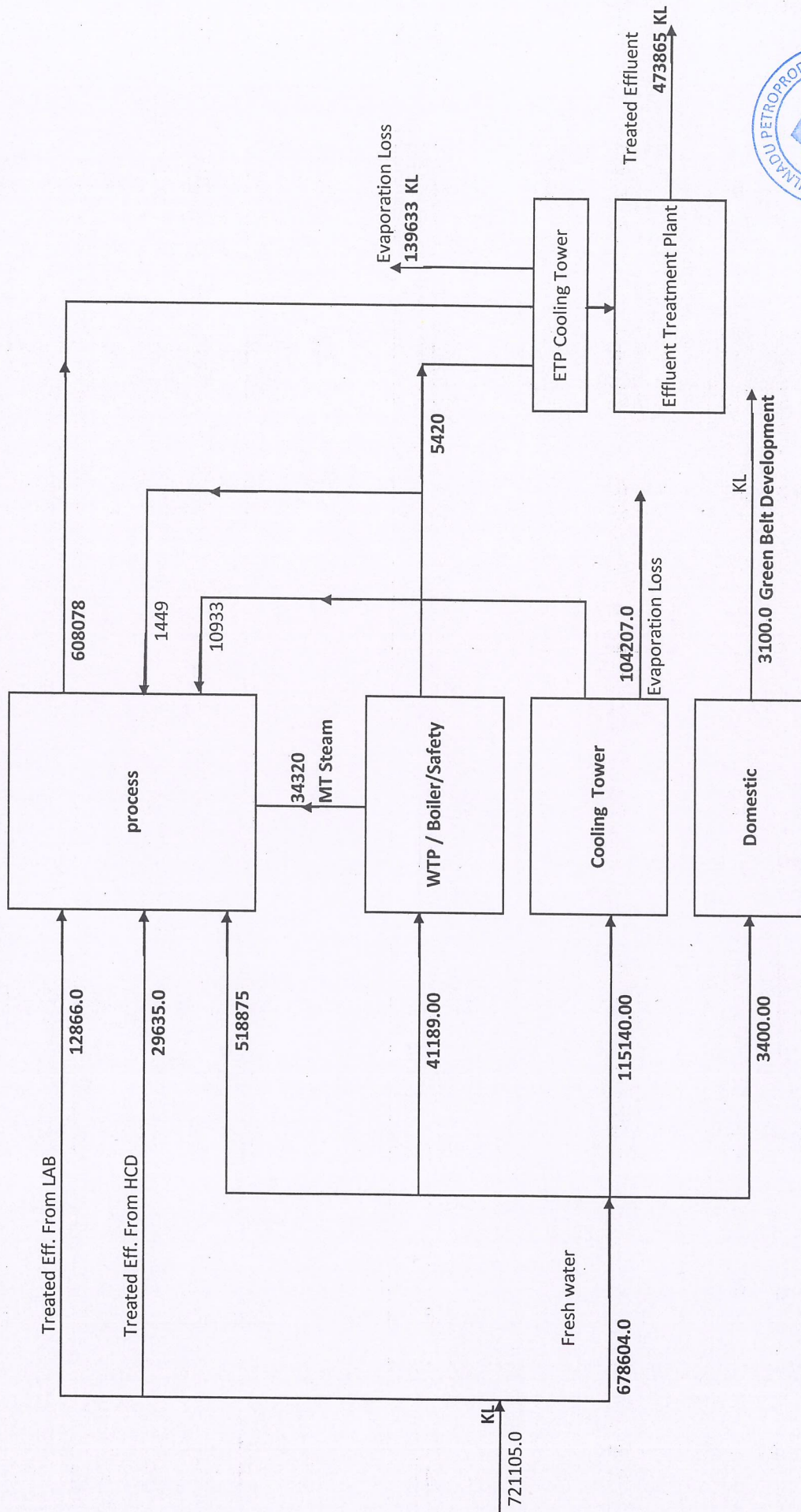
WATER CONSUMPTION

April 2023 to March 2024

MONTH	CONSUMPTION, KL					TOTAL CONSUMPTION
	PROCESS			COOLING	DOMESTIC	
	Fresh water	Treated Eff from LAB	Treated Eff from HCD			
Apr-23	48185	1087	2557	9791	258	61878
May-23	51952	1080	2497	9584	301	65414
Jun-23	56183	1078	2536	9979	298	70074
Jul-23	44438	1142	2497	9303	257	57637
Aug-23	52076	1194	2538	9728	236	65772
Sep-23	51774	1103	2576	9902	284	65639
Oct-23	51492	1153	2516	9806	295	65262
Nov-23	24789	1042	2530	9824	305	38490
Dec-23	15531	650	1117	7780	220	25298
Jan-24	55511	1169	2630	9917	288	69515
Feb-24	55260	1090	2943	9779	320	69392
Mar-24	52874	1077	2698	9747	338	66734
	560065	12865	29635	115140	3400	721105
	602565			115140	3400	721105



ECH - PO - WATER BALANCE FOR THE PERIOD FROM APRIL 2023 to MAR 2024



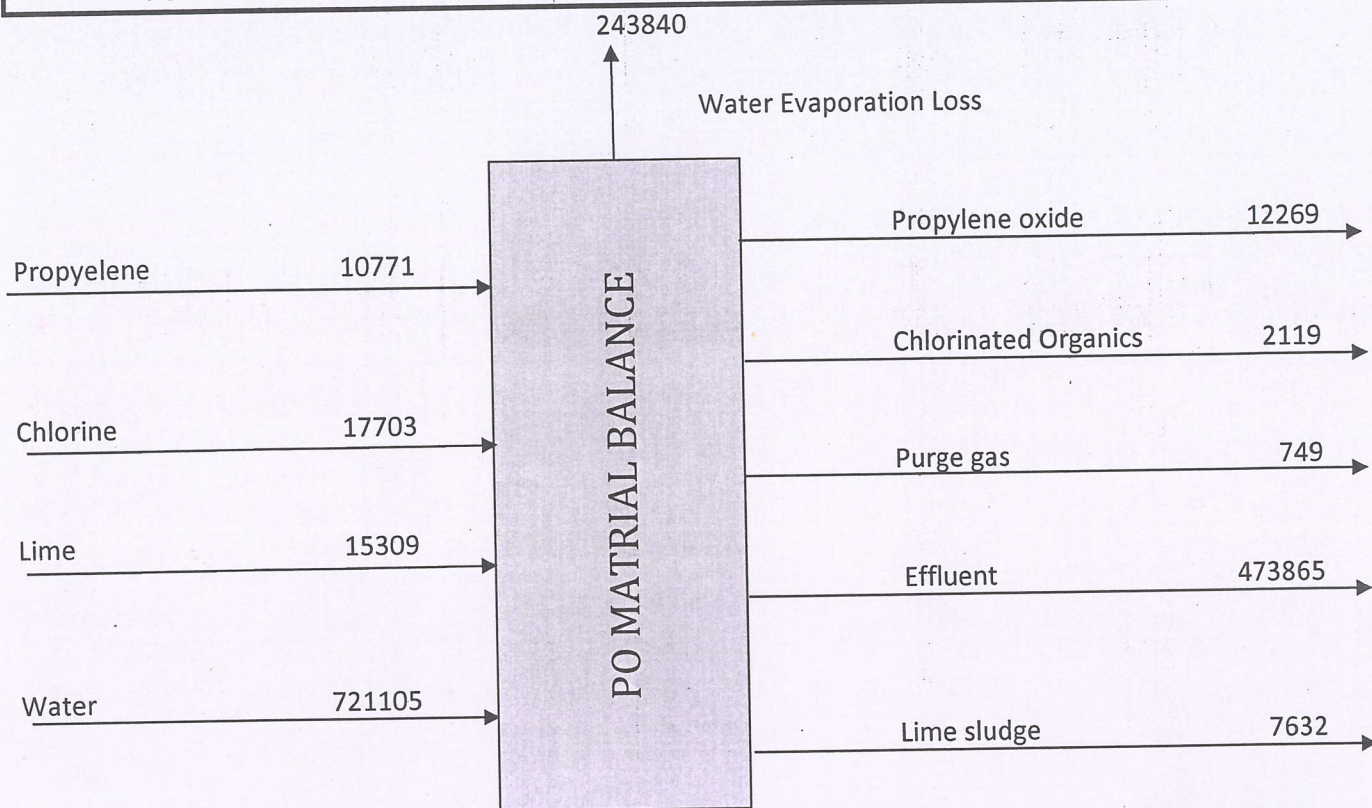
RAW MATERIAL CONSUMPTION

April 2023 to March 2024

S.No	RAW MATERIAL	2023 - 2024
1	Propylene, MT	10771.29
2	Chlorine, MT	17702.70
3	Lime, MT	15309.05



PO MATERIAL BALANCE FOR THE PERIOD FROM APRIL 2023 to MAR 2024



TPL Plants-MISSION LiFE-Awareness program

2023-2024

Type of the Event (Action/Awareness/Both)	MISSION LiFE-Awareness program
Date of the Event	22/05/2023
Place of the Event	Tamilnadu Petroproducts Limited Manali Express Highway Manali, Chennai-600068
Description of the Event (50 words maximum)	We have conducted Environment Awareness Program on “ <i>Mission LiFE -Lifestyle of Environment.</i> ”
Number of Participants attended the event	39 employees were participated
Geotagged Photos (5 Nos & Max 1 mb each photo in jbg, jpeg, png format)	Photos with Geo tagged in JPG format are attached
Description for Photos (10 words maximum) Common for all photos	TPL -Mission LiFE program photos
Videos (Max 5 mb, mp4, mkv format)	TPL -Mission LiFE video is attached
Description for Videos (10 words maximum)	TPL -Mission LiFE pledge video
Have the participants taken the Mission LiFE Pledge?	Yes, Mission LiFE Pledge taken by all employees.



T.P.L., Manali, Chennai, Tamil Nadu 600068,

India

22 May 2023 02:57 PM



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India

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22 May 2023 02:57 PM



T.P.L., Manali, Chennai, Tamil Nadu 600068,

India

22 May 2023 02:57 PM



TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

From

To

Dr. P. Vijaya!akshmi, M.Sc., Ph.D.,
Deputy Chief Scientific Officer,(Adl Charge)
District Environmental Laboratory, Manali
Tamil Nadu Pollution Control Board,
950/1, Poonamallee High Road,
Arumbakkam,
Chennai-106

M/s. TPL (ECH),
Manali Express Highway,
Manali,
Chennai – 600 068.

Lr.No.TNPC Bd/DEL-MNL/Air Survey/F. No.81/2023-24, Dt. 27.12.2023

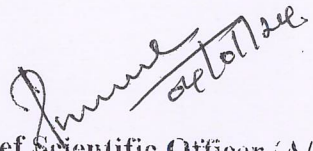
Sir,

Sub: Furnishing of Report of Analysis of Ambient Air Quality /
Stack Monitoring / Ambient Noise Level Survey – Reg.

Ref: 1. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/VOC/F.No.81/2023-24 dt.07.08.2023
2. Your Lr.No..Nil dt. 29.08.2023
3. Cash Receipt No.253 dt.01.09.2023 Rs.1,05,550/-

I am herewith sending the Report of Analysis of Ambient Air Quality / Stack Monitoring / Ambient Noise Level Survey conducted in the vicinity of your industry on M/s. TPL (ECH), Manali Express Highway, Manali, Chennai - 68 on **13.10.2023** with invoice for Rs.1,05,550/- (Rupees One Lakh Five Thousand Five Hundred and Fifty only) towards the above survey / analytical charges, and the same has been adjusted vide reference (3) cited.

Kindly acknowledge the receipt of the above without fail.


Deputy Chief Scientific Officer,(A/C)
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali

Encl.: As above.

Copy submitted to:

1. The Joint Chief Environmental Engineer (M), TNPC Bd, Chennai for favour of kind information please..
2. The District Environmental Engineer, TNPC Bd, Ambatur for favour of kind information please.
3. Copy to file.



TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No. 41/AAQS/2023-24

Date: 27.12.2023

1. Name of the Industry : M/s. TPL (ECH),
2. Address of the Industry : Manali Express Highway, Manali, Chennai - 68.
3. Date of Survey : 13.10.2023
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 ($^{\circ}$ C)	Min 25	Max 26	Relative Humidity (%)	Min 66	Max 89
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	SE – NW		Mean Wind Speed (km/hr)	14	

Ambient Air Quality Survey Results

Sl. No.	Location	Direction *	Distance (m) *	Height Form GL (m)	Pollutants Concentration (microgram / m ³)				
					PM 2.5	PM 10	SO ₂	NO ₂	Cl ₂
1	On top of platform near CP Station II	NE	150	3.0	--	62	11	14	<0.1
2	On top of platform near Propylene Oxide Filling Point	E	280	3.0	--	58	10	16	<0.1
3	On top of platform near STP (Gate No 5)	SE	700	3.0	18	56	12	18	<0.1
4	On top of platform near ERC Building (Gate No 3)	SW	200	3.0	--	64	15	16	<0.1
5	On top of platform near Flare Area	NW	240	3.0	24	78	15	21	<0.1

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

[Signature]
Deputy Chief Scientific Officer,(A/C)
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali

Test Performed	Test Method
PM10	IS 5182 : (Part 23) – 2006
SO ₂	Modified West – Gaeke / IS 5182 : (Part 2) – 2001 RA: 2012
NO ₂	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA:2012



TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

AMBIENT AIR QUALITY SURVEY

Schematic Diagram Showing Location of Sampling

Report No. 41/AAQS/2023-24

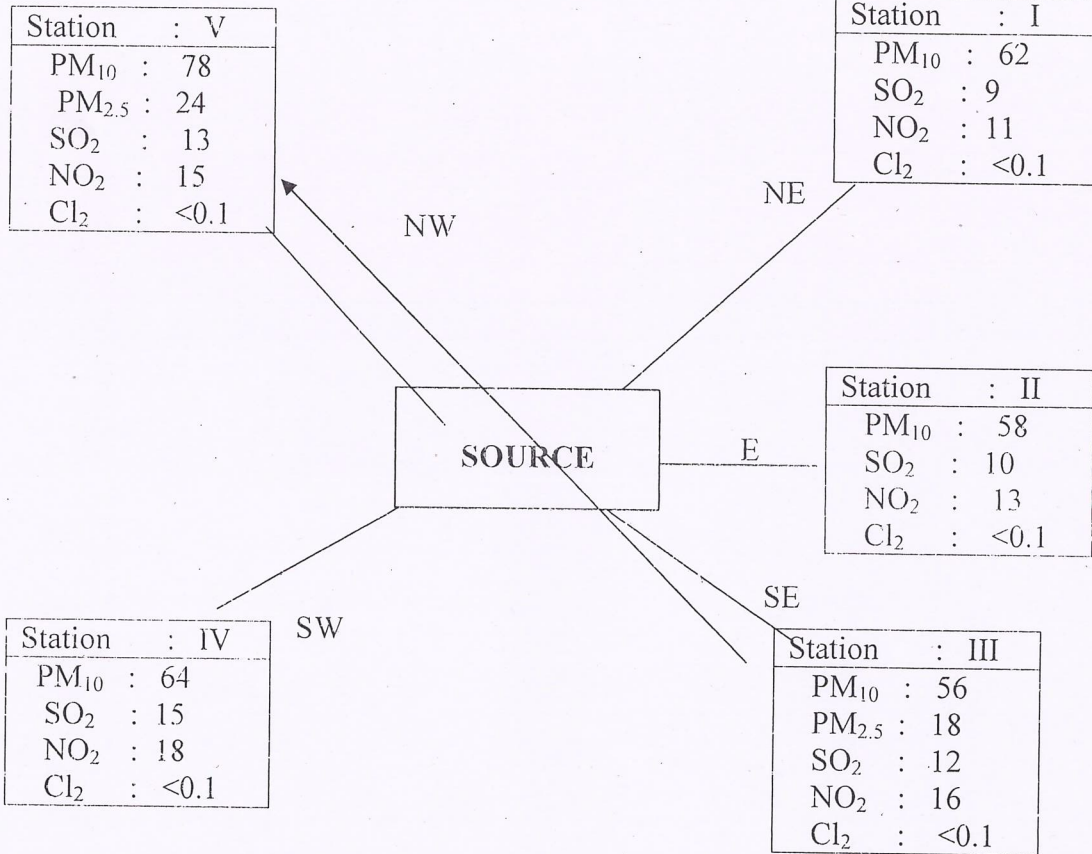
Name and Address of the Industry

: **M/s. TPL (ECH)**

Manali Express Highway, Manali, Chennai – 68.

Date of Survey

: 13.10.2023



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	SE – NW
Wind Speed (Km/hr)	14
Weather Condition	Partially Cloudy
Rainfall	Nil

[Signature]
Deputy Chief Scientific Officer, (A/C)
District Environmental Laboratory



TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

STACK MONITORING SURVEY – Report of Analysis

Report No. 41/AAQS/2023-24

Date: 27.12.2023

1. Name of the Industry : M/s. TPL (ECH),
2. Address of the Industry : Manali Express Highway, Manali, Chennai – 68
3. Date of Survey : 13.10.2023
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 Nm ³ /hr	Pollutants (mg / Nm ³)			
						PM	SO ₂	NO _x	Cl ₂
1	Boiler 12.5 T	LNG	440	11.74	9604	4	--	38	--
2	Vent Gas Scrubber	--	312	10.66	846	2	--	--	4

Test Performed	Test Method
PM10	IS 5182 : (Part 23) – 2006
SO ₂	Modified West – Gaeke / IS 5182 : (Part 2) – 2001 RA: 2012
NO _x	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA:2012

[Signature]
Deputy Chief Scientific Officer,(A/C)
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 : 13.10.2023

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)	0.15 KL/hr	--
8.	Type of Stack and capacity	Round	Round
9.	Production on 13.10.2023	Propylene Oxide – 46.018 MT	
10.	APC Measures provided	Automatic Air/Fuel ratio	Scrubber
11.	APC functional status	Functional	Functional
12.	Moisture content in %	--	--
13.	Ambient temp in °K	303	303
14.	Temp of flue gas in °K	440	312
15.	Velocity of flue gas in m/sec	11.74	10.66
16.	Volume of flue gas sampled in m ³	1.001	1.003
17.	Gaseous Discharge rate per day in Nm ³ /hr	9604	846
18.	Combustion efficiency %	--	--

[Signature]
Deputy Chief Scientific Officer,(A/C)
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali



TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

STACK MONITORING SURVEY – Additional details

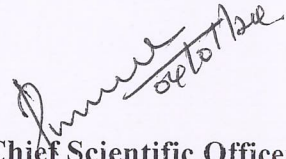
Report No. 41/SM/2023-24

Date: 27.12.2023

1. Name of the Industry : **M/s. TPL (ECH)**
2. Address of the Industry : Manali Express Highway, Manali, Chennai – 68
3. Date of Survey : 13.10.2023
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	--


Deputy Chief Scientific Officer, (A/C)
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. 41/ NLS/2023-24

Date: 27.12.2023

1.	Name of the Industry	M/s. TPL (ECH)	
2.	Address of the Industry	Manali Express Highway, Manali, Chennai - 68	
3.	Date of Survey	13.10.2023	
Category		RL	Land use Classification
Type of Survey		Ambient/Source	Industrial
Meteorological conditions		Time of Survey	Day
		Calm/Windy/Rainy	Windy

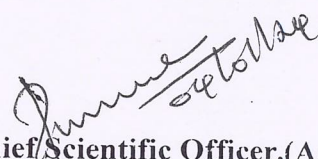
Logging Parameters

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"	Time Weighting	FAST
Sound Incidence	RANDOM		Time in hrs	14.00 – 15.00	

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	58.4	56.8	70.1
2	Near Propylene Oxide Filling Point	10	280	E	56.0	52.0	58.0
3	Near STP (Gate No.5)	10	700	SE	61.2	56.0	65.5
4	Near ERC Building (Gate No 3)	10	200	SW	64.8	60.8	69.5
5	Near Flare Area	10	240	NW	57.9	56.7	60.4

Note: Leq value is the average energy for the measured period.


Deputy Chief Scientific Officer, (A/C)
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 : 13.10.2023
4. Predominant Wind Direction : SE - NW
5. Weather condition : Partially Cloudy

STATUS OF POLLUTANTS LEVEL

I. AMBIENT AIR QUALITY :-

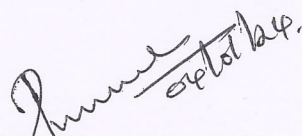
1. Total No. of A.A.Q. stations monitored : 5
2. No. of A.A.Q. stations in which Pollutants
Level exceeded the Boards standards : Nil

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	78	56	100
	PM _{2.5}	24	18	60
2.	<u>GASEOUS</u> <u>POLLUTANTS:-</u>			
	(i) SO ₂	15	10	80
	(ii) NO ₂	21	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


Deputy Chief Scientific Officer, (A/C)
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Manali

**TAMIL NADU POLLUTION CONTROL BOARD**

District Environmental Laboratory, Manali

BILL**Report No. 41/AAQ/SM/2023-24**

Bill No.	41/2023-24
Date	27.12.2023

To

M/s. TPL (ECH),

Manali Express Highway

Manali, Chennai - 600 068

Ref: 1. B.PMs.No.6 Dt.31.03.2009.

2. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/VOC/F.No.81/2023-24 dt.07.08.2023

3. Your Lr.No..Nil dt. 29.08.2023

4. Cash Receipt No.253 dt.01.09.2023 Rs.1,05,550/-

Sl. No.	Description	Rate (Rs.)	No. of Stations/ Stacks	Amount (Rs.)
1.	SAMPLING CHARGES:			
	(i) Ambient Air Quality monitoring PM ₁₀	3500	5	17,500
	(ii) Source Emission Monitoring (PM, SO ₂ , NO _x etc.,)	13100	2	26,200
	(iii) Ambient Air Quality monitoring PM _{2.5}	3500	2	7,000
2.	ANALYTICAL CHARGES:			
	(i) Ambient Air Samples PM ₁₀ , SO ₂ , NO ₂ , Cl ₂ (each Rs. 1050/-)	4200	5	21,000
	(ii) Source Emission Samples PM, SO ₂ , NO _x , Cl ₂ (each Rs.1050/-)	3150	1	3,150
	(iii) Source Emission samples (PM & Cl ₂)mbient Air Samples PM _{2.5}	2100	1	2,100
	(iv) Ambient Air Samples PM _{2.5}	1800	2	3600
3.	AMBIENT NOISE MONITORING CHARGES:			
	(i) For first 5 stations	1400	5	7,000
Transportation Charges				500
Total				88,050
Received Vide SBI Bank DD No.476384 dated :28.08.2023				
Our CR.No. 147287 dated 15.02.2022				1,05,550
LESS: Excess amount of TVOC analytical charges will be deducted in the demand of the next survey.				17,500
Balance to be adjusted				17,500

Deputy Chief Scientific Officer,(A/C)