ANNEXURE - 2

5(c

Tamilnadu Petroproducts Limited

30th September 2019

TPL\ECH – PO\2019

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

Dear Sir,

Sub: TPL – ECH – PO Plant - Environmental Statement 2018 – 19 - Reg.

We submit herewith Environmental Statement (FORM – V) for the period of April 2018 - March 2019 pertaining to TPL – ECH – PO Plant for your kind reference.

Thanking you,

Yours faithfully,
For Tamilnadu Petroproducts Limited

N. Kalyanasundaram
AVP – Operation – LAB & PO

31/10/19

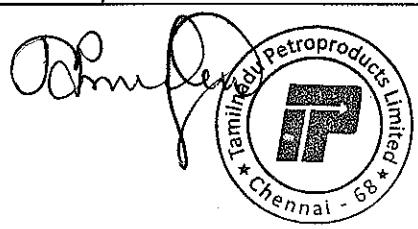
FORM - V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31st MARCH 2019

PART - A

I	Name & Address of the owner/ Occupier of the Industry, Operation or process.	Mr. D. Senthi kumar 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	-----	



TPL – ECH – PO Plant

PART - B

WATER AND RAW MATERIAL CONSUMPTION

WATER CONSUMPTION:-

PURPOSE	*m^3 / DAY*	
	2017 – 2018 *	2018 – 2019 *
Process	-----	361.3
Cooling	-----	76.7
Domestic	-----	2.1

PROCESS WATER CONSUMPTION:-

Name of the Products	*Process water consumption per unit of product output m^3 / MT*	
	*During the previous Financial year (2017 – 2018) **	*During the current Financial year (2018 – 2019) **
Propylene Oxide	-----	84.65

RAW MATERIAL CONSUMPTION:-

Name of the Raw Material	*Name of the Product*	*Consumption of raw material per unit of output, MT / MT*	
		*During the previous Financial year (2017 – 2018) **	*During the current Financial year (2018 – 2019) **
Propylene	Propylene Oxide	-----	0.953
Chlorine		-----	1.664
Lime		-----	1.775

* ECH – PO Plant – Plant commissioned on 29.01.2019.

Tamilnadu Petroproducts Limited

TPL – ECH – PO Plant

PART - C

POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT

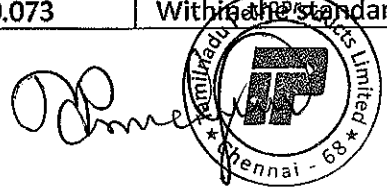
(Parameter as specified in the consent issued.)

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	7.5	Within the standards
TDS	----	----	Within the standards
TSS	180.5	12.03	Within the standards
Chlorides (as Cl)	----	----	Within the standards
Sulphates (as SO4)	1805	34.18	Within the standards
BOD	180.5	4.69	Within the standards
COD	451.25	44.81	Within the standards
Oil & Grease	36.1	0.33	Within the standards
Phenolic Compound	9.025	< 0.0016	Within the standards
Fluoride	27.07	< 0.33	Within the standards
Chromium	1.805	< 0.001	Within the standards
TRC	1.805	< 0.33	Within the standards

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	8.18	Within the standards
TSS	2.1	0.143	Within the standards
BOD	1.4	0.073	Within the standards



PART - D

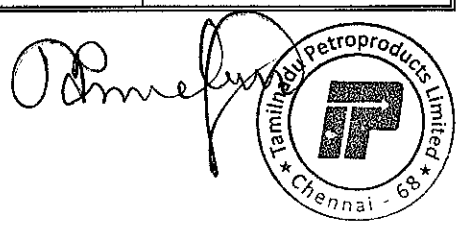
HAZARDOUS WASTE

(As specified under Hazardous Wastes/ Management and Handling Rules, 2008)

	Total Quantity	
	During the previous Financial year (2017 – 2018) *	***During the current Financial year (2018 – 2019)***
(A) From Process		
Used Spent Oil, MT	0.0	0.0
Waste Oil, MT	0.0	0.0
(B) From pollution control facility		
ETP Sludge, MT	0.0	0.0

PART - E
SOLID WASTE

	Total Quantity	
	During the previous Financial year (2017 – 2018) *	***During the current Financial year (2018 – 2019)***
a) From process, MT	Nil	1360
b) Pollution control facility, MT.	Nil	Nil
c) Quantity recycled or reutilised.	Nil	Nil
d) Sold	Nil	1360
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 vendors.

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

Quantity	:	0.0 MT
Composition	:	Oil with water.
Disposal practice	:	Used as Fuel in TPL heater.

3. Hazardous Waste Category No: Schedule 1, S.No: 33.3 – ETP Sludge

Quantity	:	0.0 MT
Composition	:	ETP Sludge
Disposal practice	:	Disposed to SPCB authorised landfill facility.

PART - G

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

- ✓ Entire quantity of treated effluent from sewage treatment plant is utilised for gardening.
- ✓ Continuous Ambient Air Quality Monitoring station is provided for monitoring $PM_{2.5}$, PM_{10}, Chlorine and VOC in ambient air and monitoring data has been uploaded to TNPCB server.
- ✓ Continuous monitoring system along with data uploading facility for stack attached to Boiler for the parameter PM, SO_2, NOx, and CO is provided and monitoring data has been connected to TNPCB server.
- ✓ Continuous monitoring system along with data uploading facility for stack attached to Chlorine Scrubber for Chlorine parameter is provided and monitoring data has been connected to TNPCB server.
- ✓ Continuous online pH, Flow meter, TSS, BOD and COD analyser is provided in the ETP – treated effluent outlet and monitoring data has been connected to CAC, TNPCB.

Tamilnadu Petroproducts Limited * Chennai - 68 *

PART - H

Additional investment proposal for environment protection including abatement of pollution

1) Re-gasified Liquefied Natural Gas will be used as fuel in Boiler replacing furnace oil to reduce emission load.
2) Tertiary Treated Reverse Osmosis (TTRO) water from Chennai Metro Water Supply and Sewerage Board will be used instead of Meter water thus by achieving reduction of effluent generation.

PART - I

Any other Particulars for improving the Quality of the Environment

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