Tamilnadu Petroproducts Limited

Ref: TPL – PO/ 2023/14

01st June- 2023

The Director (S)
Ministry of Environment, Forest & Climate Change
Integrated Regional Office
First Floor, Additional Office Block for GPOA
Shastri Bhawan, Haddows Road,
Nungambakkam,
Chennai – 600 006.

Dear Sir,

Sub: TPL – ECH – PO Plant – Environmental Clearance (EC) – Six Monthly Compliance Report – **Oct 2022 to March-2023 - reg.**

Ref: F.No. J-11011/280/2013-IA-II (I) dated 31.01.2017

*****

This has reference to the Environmental Clearance obtained from MoEF, New Delhi for product mix change an existing ECH plant located at Manali, Chennai.

We herewith attach the EC compliance status report for the period from October 2022 to March 2023 for your kind reference.

Thanking you,

Yours faithfully,
For Tamilnadu Petroproducts Limited

N.Murugan
AVP – Operations

TAMILNADU PETROPRODUCTS LIMITED ★ CHENNAI - 68 ★

1984 - 2009 25 Years MOVING AHEAD

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

Environmental Clearance Compliance Status Report

For the period from October 2022 to March 2023

EC Amendment - Ref : No. J – 11011/280/2013 – IA.II(I) dated 31.01.2017.

S.No	Condition	Compliance
1	The unit shall discharge the treated effluent through the existing pipeline which is connected to M/s. Manali Petrochemical Ltd's marine disposal pipeline into the Bay of Bengal after satisfying the standards prescribed by the board.	Complied Treated effluent generated from the ECH plant is disposed through the existing pipeline which is connected to M/s. Manali Petrochemical Ltd's marine disposal pipeline into the Bay of Bengal, after satisfying the standards prescribed by the board.

TAMILNADU PETROPRODUCTS LIMITED ★ CHENNAI - 68 ★

TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No. 81/AAQS/2022-23 Date: 28.10.2022

1. Name of the Industry : **M/s. TPL (ECH),**
2. Address of the Industry : Manali Express Highway, Manali, Chennai - 68.
3. Date of Survey : 12.10.2022
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 (^{0}C)	Min	Max	Relative Humidity (%)	Min	Max
	30	32		62	84
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	SE-NW		Mean Wind Speed (km/hr)	13.4	

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	28	58	9	13	BDL
2	On top of platform near Propylene Oxide Filling Point	E	280	3.0	--	54	8	12	BDL
3	On top of platform near STP (Gate No 5)	SE	700	3.0	--	52	7	10	BDL
4	On top of platform near ERC Building (Gate No 3)	SW	200	3.0	21	63	10	14	BDL
5	On top of platform near Flare Area	NW	240	3.0	--	66	11	15	BDL

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

T. Thamaraiselvi 28.10.22

Deputy 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) – 2001 RA: 2012
NO2	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA:2012

TAMIL NADU POLLUTION CONTROL BOARD

DISTRICT ENVIRONMENTAL LABORATORY – MANALI

TVOC Survey – Report of Anlaysis

Report No. 81 /TVOC/2022-23 dated 28.10.2022

1. Name of the Industry : **M/s. TPL (ECH)**
2. Address of the Industry : Manali Express Highway, Chennai - 68
3. Date of Survey : 12.10.2022
4. Pollution Category : Red Large

TVOC – Analysis Report

Sl.No.	Location	Direction	Distance (mts)	TVOC ($\mu g/m^3$)
1	Near CP Station II	NE	150	476
2	Near Propylene Oxide Filling Point	E	280	410
3	Near STP (Gate No.5)	SE	700	430
4	Near ERC Building (Gate No 3)	SW	200	498
5	Near Flare Area	NW	240	586

T. Thamaraiselvi 28.10.22

Deputy 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. 81/AAQS/2022-23 Date: 28.10.2022

1. Name of the Industry : **M/s. TPL (ECH),**
2. Address of the Industry : Manali Express Highway, Manali, Chennai – 68
3. Date of Survey : 12.10.2022
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 ^0K	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	435	9.7	7836	2	BDL	24	-
2	Vent Gas Scrubber	--	309	8.2	757	2	-	-	2

Test Performed	Test Method
PM10	IS 5182 : (Part 23) – 2006
SO2	Modified West – Gaeke / IS 5182 : (Part 2) – 2001 RA: 2012
NOx	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA:2012

T. Thamaraiselvi 28.10.22

Deputy 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. 81/ NLS/2022-23 Date: 28.10.2022

1.	Name of the Industry	**M/s. TPL (ECH)**
2.	Address of the Industry	Manali Express Highway, Manali, Chennai - 68
3.	Date of Survey	12.10.2022

Category	**RL**	**Land use Classification**	Industrial
Type of Survey	**Ambient**/Source	**Time of Survey**	Day
Meteorological conditions		**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	60.6	57.3	65.2
2	Near Propylene Oxide Filling Point	10	280	E	59.7	55.1	65.7
3	Near STP (Gate No.5)	10	700	SE	57.8	55.5	68.3
4	Near ERC Building (Gate No 3)	10	200	SW	64.0	57.1	70.1
5	Near Flare Area	10	240	NW	53.2	48.7	60.7

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

T. Thamaraiselvi 28.10.22

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

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/AA/005/220323
Report Date : 28/03/2023

Sample Description : Ambient Air Quality
Sampling Location : Near Main Gate
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 22/03/2023 -22/03/2023
Analysis Commenced On : 22/03/2023

Completed On : 27/03/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.52	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.61	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.73	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.06	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.51	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	8.05	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Suspended Particulate Matter	µg/m³	79.09	IS: 5182 (P-4) 1999	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter, NA –Not Applicable.
Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/AA/008/220323
Report Date : 28/03/2023

Sample Description : Ambient Air Quality
Sampling Location : Near Plant Area
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 22/03/2023 -22/03/2023
Analysis Commenced On : 22/03/2023

Completed On : 27/03/2023

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.52	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.04	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	48.24	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	21.68	IS 5182 (Part - 24) : 2019	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.72	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.50	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Suspended Particulate Matter	µg/m³	69.92	IS: 5182 (P-4) 1999	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³-Milligrams per cubic meter, ng/m³-Nanograms per cubic meter, NA –Not Applicable.
Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD
Chennai
600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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Ph: 42985555 / 43635555 Fax : 42985500
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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/ST/013/220323
Report Date : 28/03/2023

Sample Description : Stack Emission
Sample Mark : Chlorine Scrubber
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 22/03/2023 -22/03/2023
Analysis Commenced On : 22/03/2023
Completed On : 27/03/2023

S.No.	Parameters	Units	Results	Test Method
1	Chlorine	mg/Nm³	2.1	HECS/AIR/STACK/SOP026

Note:- mg/Nm³- Milligrams per Normal cubic meter.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. TamilNadu Petroproducts Ltd.,**
Address of the Client : **PO Plant, Manali Express High Way, Manali, Chennai - 600068.**

Report No. : **HECSL/ST/018/220323**
Report Date : **28/03/2023**

Sample Description : **Stack Emission**
Sample Mark : **Boiler Stack**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -22/03/2023**
Analysis Commenced On : **22/03/2023**
Completed On : **27/03/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Particulate Matter	mg/Nm³	8.50	IS 11255 (Part-1) 1985	Max 10
2	Sulphur Dioxide	mg/Nm³	11.59	IS 11255 (Part-2) 1985	Max 50
3	Oxides of Nitrogen	mg/Nm³	96.22	ASTM Method D6522: 2000	Max 350
4	Carbon monoxide	%V/V	10.42	ASTM Method D6522: 2000	Max 150
5	Hydrocarbon	mg/Nm³	BLQ(LOQ 1)	HECS-G/INS/SOP/019	NA
6	Non - Methane Hydro Carbon(NMHC)	mg/Nm³	BLQ(LOQ 0.1)	USEPA Method 25:1991	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, Nm³/hr - Normal cubic meter per hour, mg/Nm³- Milligrams per Normal cubic meter, % V/V - Percentage, °C- Degree Celsius, NA - Not Applicable.
Values Corrected to 3% Oxygen.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD
Chennai
600 032

Authorized Signatory
SIVAPRAKASAM. M
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TEST REPORT

Name of the Client : **M/s. TamilNadu Petroproducts Ltd.,**
Address of the Client : **PO Plant, Manali Express High Way, Manali, Chennai - 600068.**

Report No. : **HECSL/WT/074/090323**
Report Date : **15/03/2023**

Sample Description : **WATER**
Sample Mark : **Borewell Water No:1**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **08/03/2023 -09/03/2023**
Analysis Commenced On : **09/03/2023**
Completed On : **14/03/2023**

S.No.	Parameters	Units	Results	Test Method
1	pH (at 25 °C)	-	7.63	IS 3025 (Part - 11):2022
2	Electrical conductivity at 25 °C	µS/cm	6300.0	IS 3025 (Part - 14):2013
3	Colour	Hazen Unit	5.0	IS 3025(Part - 4):2021
4	Turbidity	NTU	48.2	IS 3025(Part - 10):1984
5	Odour	-	Agreeable	IS 3025 (Part - 5):2018
6	Taste	-	Disagreeable	IS 3025 (Part - 8):1984
7	Total Hardness as CaCO3	mg/l	1040.0	IS 3025 (Part - 21):1983
8	Calcium as Ca	mg/l	208.41	IS 3025 (Part - 40):1991
9	Total Alkalinity as CaCO3	mg/l	540.0	IS 3025 (Part - 23):1986
10	Chloride as Cl	mg/l	1454.95	IS 3025 (Part - 32):1988
11	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021
12	Magnesium as Mg	mg/l	126.36	IS 3025 (Part - 59) 2006
13	Total Dissolved Solids	mg/l	3291.0	IS 3025(Part -16):1984
14	Sulphate as SO4	mg/l	388.07	IS 3025(Part - 24):1986
15	Fluoride	mg/l	0.51	IS 3025 (Part - 60):2008
16	Nitrate as NO3	mg/l	8.52	IS 3025 (Part 34) Sec -3: 2021
17	Iron as Fe	mg/l	5.17	IS 3025 (Part - 53):2003
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part - 55):2003
19	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994
20	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994
21	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994
22	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994
23	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994
24	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/WT/074/090323
Report Date : 15/03/2023

Sample Description : WATER
Sample Mark : Borewell Water No:1
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 08/03/2023 -09/03/2023
Analysis Commenced On : 09/03/2023

Completed On : 14/03/2023

S.No.	Parameters	Units	Results	Test Method
25	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994
26	Sodium as Na	mg/l	712.0	IS3025 (Part - 35):1988
27	BOD,3 days @27°C as O2	mg/l	6.0	IS 3025 (Part - 44):1993
28	Chemical oxygen demand as O2	mg/l	48.0	IS 3025 (Part - 58):2006
29	Temperature	°C	28.7	IS 3025 (Part - 9):1984
30	Dissolved oxygen	mg/l	6.2	IS 3025 (Part - 38):1989
31	Salinity	ppt	2.63	2520 A APHA 23rd Edn. 2017
32	Total Chromium	mg/l	0.038	USEPA Method 200.8 : 1994

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, °C - Degree Celsius, mg/l- Milligrams per litre.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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Laboratory Services Division
(Chemical & Biological Testing)
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TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/MB/070/090323
Report Date : 13/03/2023

Sample Description : WATER
Sample Mark : Borewell Water No:1
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 08/03/2023 -09/03/2023
Analysis Commenced On : 09/03/2023

Completed On : 10/03/2023

S.No.	Parameters	Units	Results	Test Method
1	Total Coliforms	Per 100ml	Absent	IS 1622
2	Faecal coliform	Per 100ml	Absent	IS 1622

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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Hubert Enviro Care Systems (P) Ltd.
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Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. TamilNadu Petroproducts Ltd.,**
Address of the Client : **PO Plant, Manali Express High Way, Manali, Chennai - 600068.**

Report No. : **HECSL/WT/077/090323**
Report Date : **15/03/2023**

Sample Description : **WATER**
Sample Mark : **RO Drinking Water - Canteen**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **08/03/2023 -09/03/2023**
Analysis Commenced On : **09/03/2023**

Completed On : **14/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.16	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	2.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	8.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	10.39	IS 3025 (Part - 32):1988	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Magnesium as Mg	mg/l	BLQ(LOQ:1.0)	IS 3025 (Part - 46) 1994	30	100
12	Total Dissolved Solids	mg/l	25.0	IS 3025(Part-16):1984	500	2000
13	Sulphate as SO4	mg/l	1.08	IS 3025(Part - 29):2017	200	400
14	Fluoride	mg/l	BLQ(LOQ:0.2)	IS 3025 (Part - 60):2008	1.0	1.5
15	Nitrate as NO3	mg/l	1.22	IS 3025 (Part 34) Sec -3: 2021	45	No Relaxation
16	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
17	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part - 55):2003	0.03	0.2
18	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	5	15
19	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
20	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
21	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994	0.003	No Relaxation

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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/WT/077/090323
Report Date : 15/03/2023

Sample Description : WATER
Sample Mark : RO Drinking Water - Canteen
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 08/03/2023 -09/03/2023
Analysis Commenced On : 09/03/2023

Completed On : 14/03/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
23	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994	0.01	0.05
24	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
25	Total Chromium	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8 : 1994	0.05	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS: 10500:2012.

End of Report

Verified By

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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Report No. : HECSL/MB/073/090323
Report Date : 13/03/2023

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Sample Description : WATER
Sample Mark : RO Drinking Water - Canteen
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 08/03/2023 -09/03/2023
Analysis Commenced On : 09/03/2023
Completed On : 10/03/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	Total Coliforms	Per 100ml	Absent	IS 15185:2016	Absent/100 ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185:2016	Absent/100 ml	NA

Note:-NA - Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

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Chennai
600 032

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TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/WW/023/090323
Report Date : 15/03/2023

Sample Description : Waste Water
Sample Mark : Treated Effluent Outlet
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 08/03/2023 -09/03/2023
Analysis Commenced On : 09/03/2023

Completed On : 14/03/2023

S.No.	Parameters	Units	Results	Test Method	TNPCB Limits *
1	Total suspended Solids	mg/l	28.0	IS 3025 (Part 17) 1984	100
2	pH @ 25°C	-	6.11	IS 3025 (Part 11) 1983	5.5 - 9.0
3	Total Dissolved Solids	mg/l	50250.0	IS 3025 (Part 16) 1984	-
4	Temperature	°C	28.9	IS 3025 (Part 9):1983	45°C
5	Oil & Grease	mg/l	BLQ(LOQ4.0)	IS 3025 (Part 39) 2021	20
6	Ammonical Nitrogen as N	mg/l	11.52	IS 3025 Part (34)1988	50
7	Total Kjeladahl Nitrogen as N	mg/l	17.74	IS 3025 Part (34)1988	100
8	Free Ammonia as NH3	mg/l	BLQ(LOQ0.02)	IS:3025 (Part34)1998	5
9	BOD, 3 days @ 27°C as O2	mg/l	16.0	IS:3025 (Part 44)1993	100
10	COD as O2	mg/l	126.0	IS 3025 (Part 58) 2006	250
11	Lead as Pb	mg/l	BLQ(LOQ 0.1)	IS:3025 (Part 47)1994	1
12	Chromium (Hexavalent) as Cr6+	mg/l	BLQ(LOQ0.1)	IS 3025 Part (52):2003	1
13	Total Chromium as Cr	mg/l	0.29	IS 3025(Part 52):2003	2
14	Copper as Cu	mg/l	BLQ(LOQ 0.05)	IS:3025(Part 42)1992	3
15	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	IS:3025 (Part49)1994	1.5
16	Nickel as Ni	mg/l	0.37	IS:3025 (Part54)2003	3
17	Boron as B	mg/l	BLQ(LOQ0.1)	IS 3025:(Part-57):2005	2
18	Chloride as Cl-	mg/l	11620.0	IS 3025 (Part 32) 1988	-
19	Fluoride as F-	mg/l	1.26	IS 3025 part (60):2008	15
20	Dissolved Phosphate as PO4	mg/l	0.25	IS 3025 (Part 31):1988	-
21	Sulphate as SO4	mg/l	656.8	IS 3025 (Part 24) 1986	1000
22	Sulphide as S2-	mg/l	BLQ(LOQ0.04)	IS:3025 (Part 29)1986	5

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TEST REPORT

Name of the Client : **M/s. TamilNadu Petroproducts Ltd.,**
Address of the Client : **PO Plant, Manali Express High Way, Manali, Chennai - 600068.**

Report No. : **HECSL/WW/023/090323**
Report Date : **15/03/2023**

Sample Description : **Waste Water**
Sample Mark : **Treated Effluent Outlet**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **08/03/2023 -09/03/2023**
Analysis Commenced On : **09/03/2023**

Completed On : **14/03/2023**

S.No.	Parameters	Units	Results	Test Method	TNPCB Limits*
23	Arsenic as As	mg/l	BLQ(LOQ 0.005)	IS:3025 (Part37)1988	0.2
24	Mercury as Hg	mg/l	BLQ(LOQ 0.001)	IS:3025 (Part48)1994	0.01
25	Cadmium as Cd	mg/l	BLQ(LOQ 0.01)	IS:3025 (Part41)1992	2.0
26	Selenium as Se	mg/l	BLQ(LOQ 0.005)	IS:3025 (Part56)2014	0.05
27	Residual Sodium Carbonate as Na2CO3	meq/l	BLQ(LOQ1.0)	IS 11624-1986	NA
28	Cyanide as CN	mg/l	BLQ(LOQ0.01)	IS:3025 (Part27)1986	0.2
29	Pesticides				
	2,4-D	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Isoproturon	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Malathion	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Methyl Parathion	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Monochrotophos	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Phorate	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	o,p -DDT	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	p,p'-DDT	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	o,p-DDD	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	p,p'-DDD	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	o,p-DDE	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	o,p-DDD	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	p,p'-DDD	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	o,p-DDE	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	p,p'-DDE	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent

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TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/WW/023/090323
Report Date : 15/03/2023

Sample Description : Waste Water
Sample Mark : Treated Effluent Outlet
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 08/03/2023 -09/03/2023
Analysis Commenced On : 09/03/2023

Completed On : 14/03/2023

S.No.	Parameters	Units	Results	Test Method	TNPCB Limits*
	Endosulphan alpha	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Endosulphan Beta	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Endosulphan Sulphate	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Alpha HCH	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Beta HCH	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Gamma HCH	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Delta HCH	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Butachlor	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Chlorpyrifos	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Alachlor	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Atrazine	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Aldrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Dieldrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Ethion	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Cypermethrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Alphamethrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Permethrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
	Deltamethrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	Absent
30	Phenolic Compounds as C6H5OH	mg/l	BLQ(LOQ0.001)	IS 3025 Part (43)1992	1.0
31	Residual Free Chlorine	mg/l	BLQ(LOQ 0.1)	IS 3025 Pt 26 - 1986	NA
32	Sodium as Na	mg/l	3584.0	IS 3025 (Pt 45) :1993	NA
33	Alpha emitters	microcurie/ml	BLQ(LOQ 0.00000000001)	IS 14194 (Part-2)-1994	0.0000001
34	Beta emitters	microcurie/ml	BLQ(LOQ 0.0000000001)	IS 14194 (Part -1)-1994	0.000001

Note:- BLQ-Below limit of Quantification, LOQ-Limit of Quantification, mg/l-milligrams per litre , * - Marine Coastal Areas.
Remarks:- Treated Effluent Water as above parameters meets TNPCB Standards.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD Chennai 600 032

Authorized Signatory

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Lab Manager

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TEST REPORT

Name of the Client : **M/s. TamilNadu Petroproducts Ltd.,**
Address of the Client : **PO Plant, Manali Express High Way, Manali, Chennai - 600068.**

Report No. : **HECSL/WW/024/090323**
Report Date : **15/03/2023**

Sample Description : **Sewage Water**
Sample Mark : **Sewage Treated Effluent Outlet**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **08/03/2023 -09/03/2023**
Analysis Commenced On : **09/03/2023**

Completed On : **14/03/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Limits
1	Total suspended Solids	mg/l	18.0	IS 3025 (Part 17) 1984	100
2	pH @ 25°C	-	7.41	IS 3025 (Part 11) 1983	6.5 - 9.0
3	Total Dissolved Solids	mg/l	2040.0	IS 3025 (Part 16) 1984	-
4	Temperature	°C	28.9	IS 3025 (Part 9):1983	-
5	Oil & Grease	mg/l	BLQ(LOQ4.0)	IS 3025 (Part 39) 2021	-
6	Ammonical Nitrogen as N	mg/l	2.16	IS 3025 Part (34)1988	-
7	Total Kjeladahl Nitrogen as N	mg/l	3.32	IS 3025 Part (34)1988	-
8	Free Ammonia as NH3	mg/l	BLQ(LOQ0.02)	IS:3025 (Part34)1998	-
9	BOD, 3 days @ 27°C as O2	mg/l	8.0	IS:3025 (Part 44)1993	30
10	COD as O2	mg/l	46.0	IS 3025 (Part 58) 2006	-
11	Lead as Pb	mg/l	BLQ(LOQ 0.1)	IS:3025 (Part 47)1994	-
12	Chromium (Hexavalent) as Cr6+	mg/l	BLQ(LOQ0.1)	IS 3025 Part (52):2003	-
13	Total Chromium as Cr	mg/l	BLQ(LOQ0.01)	IS 3025(Part 52):2003	-
14	Copper as Cu	mg/l	BLQ(LOQ 0.05)	IS:3025(Part 42)1992	-
15	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	IS:3025 (Part49)1994	-
16	Nickel as Ni	mg/l	BLQ(LOQ0.1)	IS:3025 (Part54)2003	-
17	Boron as B	mg/l	BLQ(LOQ0.1)	IS 3025:(Part-57):2005	-
18	Chloride as Cl-	mg/l	360.5	IS 3025 (Part 32) 1988	-
19	Fluoride as F-	mg/l	BLQ(LOQ0.2)	IS 3025 part (60):2008	-
20	Dissolved Phosphate as PO4	mg/l	0.63	IS 3025 (Part 31):1988	-
21	Sulphate as SO4	mg/l	468.0	IS 3025 (Part 24) 1986	-
22	Sulphide as S2-	mg/l	BLQ(LOQ0.04)	IS:3025 (Part 29)1986	-

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD
Chennai
600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/WW/024/090323
Report Date : 15/03/2023

Sample Description : Sewage Water
Sample Mark : Sewage Treated Effluent Outlet
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 08/03/2023 -09/03/2023
Analysis Commenced On : 09/03/2023

Completed On : 14/03/2023

S.No.	Parameters	Units	Results	Test Method	CPCB Limits
23	Arsenic as As	mg/l	BLQ(LOQ 0.005)	IS:3025 (Part37)1988	-
24	Mercury as Hg	mg/l	BLQ(LOQ 0.001)	IS:3025 (Part48)1994	-
25	Cadmium as Cd	mg/l	BLQ(LOQ 0.01)	IS:3025 (Part41)1992	-
26	Selenium as Se	mg/l	BLQ(LOQ 0.005)	IS:3025 (Part56)2014	-
27	Residual Sodium Carbonate as Na2CO3	meq/l	BLQ(LOQ1.0)	IS 11624-1986	-
28	Cyanide as CN	mg/l	BLQ(LOQ0.01)	IS:3025 (Part27)1986	-
29	Pesticides				
	2,4-D	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Isoproturon	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Malathion	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Methyl Parathion	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Monochrotophos	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Phorate	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	o,p -DDT	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	p,p'-DDT	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	o,p-DDD	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	p,p'-DDD	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	o,p-DDE	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	o,p-DDD	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	p,p'-DDD	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	o,p-DDE	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	p,p'-DDE	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-

Verified By

HUBERT ENVIRO CARE SYSTEMS LTD Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Report No. : HECSL/WW/024/090323
Report Date: 15/03/2023

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Sample Description : Sewage Water
Sample Mark : Sewage Treated Effluent Outlet
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 08/03/2023 -09/03/2023
Analysis Commenced On : 09/03/2023

Completed On : 14/03/2023

S.No.	Parameters	Units	Results	Test Method	CPCB Limits
	Endosulphan alpha	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Endosulphan Beta	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Endosulphan Sulphate	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Alpha HCH	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Beta HCH	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Gamma HCH	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Delta HCH	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Butachlor	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Chlorpyrifos	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Alachlor	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Atrazine	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Aldrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Dieldrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Ethion	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Cypermethrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Alphamethrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Permethrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
	Deltamethrin	mg/l	BLQ(LOQ 0.0001)	HECS-G/INS/SOP/032	-
30	Phenolic Compounds as C6H5OH	mg/l	BLQ(LOQ0.001)	IS 3025 Part (43)1992	-
31	Residual Free Chlorine	mg/l	BLQ(LOQ 0.1)	IS 3025 Pt 26 - 1986	-
32	Sodium as Na	mg/l	122.0	IS 3025 (Pt 45) :1993	-
33	Alpha emitters	microcurie/ml	BLQ(LOQ 0.00000000001)	IS 14194 (Part-2)-1994	-
34	Beta emitters	microcurie/ml	BLQ(LOQ 0.0000000001)	IS 14194 (Part -1)-1994	-

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, °C - Degree Celsius, mg/l - Milligrams per liter.

End of Report

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Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. TamilNadu Petroproducts Ltd.,**
Address of the Client : **PO Plant, Manali Express High Way, Manali, Chennai - 600068.**

Report No. : **HECSL/ST/09/220323**
Report Date : **27/03/2023**

Sample Description : **Stack Emission**
Sample Mark : **Emergency DG Set**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -22/03/2023**
Analysis Commenced On : **22/03/2023**

Completed On : **27/03/2023**

S.No.	Parameters	Units	Results	Test Method	Standards
1	Ambient Temperature	°C	31.0	IS 11255 (Part-3) 2008	NA
2	Temperature	°C	128.0	IS 11255 (Part-3)2008	NA
3	Velocity	m/sec	10.2	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	4394.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	mg/Nm^3	36.94	IS 11255 (Part-1) 1985	Max 150
6	Sulphur Dioxide	mg/Nm^3	10.46	IS 11255 (Part-2) 1985	NA
7	Oxides of Nitrogen	mg/Nm^3	229.08	IS 11255 (Part-7) 2005	Max 1100
8	Carbon monoxide	mg/Nm^3	48.20	IS 13270 - 1992	Max 150
9	Carbon dioxide	%V/V	7.9	IS 13270 - 1992	NA
10	Hydrocarbon	mg/Nm^3	BLQ(LOQ 1)	IS 5182 (Part-17) 1979	NA
11	Non - Methane Hydro Carbon(NMHC)	mg/Nm^3	BLQ(LOQ 0.1)	USEPA METHOD 25	NA
12	Olefin (Aromatic)	%	BLQ(LOQ 0.1)	ASTM D6550-05	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, Nm^3/hr - Normal cubic meter per hour, mg/Nm^3- Milligrams per Normal cubic meter, %V/V - Percentage, °C- Degree Celsius, NA - Not Applicable.

End of Report

G.

Verified By

M.

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/ST/010/220323
Report Date : 27/03/2023

Sample Description : Stack Emission (VOC)
Sample Mark : Chlorine Scrubber
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 22/03/2023 -22/03/2023
Analysis Commenced On : 22/03/2023

Completed On : 27/03/2023

S.No.	Parameters	Units	Results	Test Method
1	Ethylene Oxide	ppm	BLQ(LOQ 0.01)	HECS/INS/SOP/073
2	Vinyl Chloride Monomer	ppm	BLQ(LOQ 0.01)	HECS/INS/SOP/073
3	Ethylene Di Chloride	ppm	BLQ(LOQ 0.01)	HECS/INS/SOP/073
4	Acrylonitrile	ppm	BLQ(LOQ 0.01)	HECS/INS/SOP/073
5	Propylene Oxide	ppm	BLQ(LOQ 0.01)	HECS/INS/SOP/073

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, ppm- Parts per Million.

End of Report

Verified By

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/ST/011/220323
Report Date : 27/03/2023

Sample Description : Stack Emission (VOC)
Sample Mark : Boiler Stack
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 22/03/2023 -22/03/2023
Analysis Commenced On : 22/03/2023

Completed On : 27/03/2023

S.No.	Parameters	Units	Results	Test Method
1	Ethylene Oxide	ppm	BLQ(LOQ 0.01)	HECS/INS/SOP/073
2	Vinyl Chloride Monomer	ppm	BLQ(LOQ 0.01)	HECS/INS/SOP/073
3	Ethylene Di Chloride	ppm	BLQ(LOQ 0.01)	HECS/INS/SOP/073
4	Acrylonitrile	ppm	BLQ(LOQ 0.01)	HECS/INS/SOP/073
5	Propylene Oxide	ppm	BLQ(LOQ 0.01)	HECS/INS/SOP/073

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, ppm- Parts per Million.

End of Report

Verified By

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TEST REPORT

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Report No. : HECSL/WT/005/220323
Report Date : 27/03/2023

Sample Description : WATER
Sample Mark : Borewell Water No:2
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 22/03/2023 -22/03/2023
Analysis Commenced On : 22/03/2023

Completed On : 27/03/2023

S.No.	Parameters	Units	Results	Test Method
1	pH (at 25 °C)	-	7.34	IS 3025 (Part - 11):1983
2	Electrical conductivity at 25 °C	µS/cm	7180.0	IS 3025 (Part - 14):1983
3	Colour	Hazen Unit	5.0	IS 3025(Part - 4):1983
4	Turbidity	NTU	32.9	IS 3025(Part - 10):1984
5	Odour	-	Agreeable	IS 3025 (Part - 5):1983
6	Taste	-	Disagreeable	IS 3025 (Part - 8):1984
7	Total Hardness as CaCO3	mg/l	780.0	IS 3025 (Part - 21):1983
8	Calcium as Ca	mg/l	204.70	IS 3025 (Part - 40):1991
9	Total Alkalinity as CaCO3	mg/l	310.0	IS 3025 (Part - 23):1986
10	Chloride as Cl	mg/l	1276.04	4500 Cl — B APHA 23rd Edn: 2017
11	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986
12	Magnesium as Mg	mg/l	62.70	IS 3025 (Part - 46) 1994
13	Total Dissolved Solids	mg/l	3960.0	IS 3025(Part -16):1984
14	Sulphate as SO4	mg/l	956.4	IS 3025(Part - 24):1986
15	Fluoride	mg/l	0.48	IS 3025 (Part - 60):1986
16	Nitrate as NO3	mg/l	17.5	IS 3025 (Part 34): 1988
17	Iron as Fe	mg/l	4.2	IS 3025 (Part - 53):2003
18	Aluminium as Al	mg/l	BLQ(LOQ 0.03)	IS 3025 (Part - 55):2003
19	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994
20	Copper as Cu	mg/l	0.038	USEPA Method 200.8:1994
21	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994
22	Cadmium as Cd	mg/l	BLQ(LOQ 0.001)	USEPA Method 200.8:1994
23	Lead as Pb	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994

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TEST REPORT

Name of the Client : **M/s. TamilNadu Petroproducts Ltd.,**
Address of the Client : **PO Plant, Manali Express High Way, Manali, Chennai - 600068.**

Report No. : **HECSL/WT/005/220323**
Report Date : **27/03/2023**

Sample Description : **WATER**
Sample Mark : **Borewell Water No:2**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -22/03/2023**
Analysis Commenced On : **22/03/2023**
Completed On : **27/03/2023**

S.No.	Parameters	Units	Results	Test Method
24	Arsenic as As	mg/l	BLQ(LOQ 0.005)	USEPA Method 200.8:1994
25	Mercury as Hg	mg/l	BLQ(LOQ 0.0005)	USEPA Method 200.8:1994
26	Sodium as Na	mg/l	710.0	IS3025 (Part - 45):1993
27	BOD,3 days @27°C as O2	mg/l	4.0	IS 3025 (Part - 44):1993
28	Chemical oxygen demand as O2	mg/l	36.0	IS 3025 (Part - 58):2006
29	Temperature	°C	29.0	IS 3025 (Part - 9):1984
30	Dissolved oxygen	mg/l	6.3	IS 3025 (Part - 38):1989
31	Salinity	ppt	1.56	2520 A APHA 23rd Edn. 2017
32	Total Chromium	mg/l	0.010	USEPA Method 200.8 : 1994

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, °C - Degree Celsius, mg/l- Milligrams per litre.

End of Report

Verified By

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TEST REPORT

Report No. : HECSL/MB/016/220323
Report Date : 27/03/2023

Name of the Client : M/s. TamilNadu Petroproducts Ltd.,
Address of the Client : PO Plant, Manali Express High Way, Manali, Chennai - 600068.

Sample Description : WATER
Sample Mark : Borewell Water No:2
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 22/03/2023 -22/03/2023
Analysis Commenced On : 22/03/2023

Completed On : 23/03/2023

S.No.	Parameters	Units	Results	Test Method
1	Total Coliforms	Per 100ml	Absent	IS 1622
2	Faecal coliform	Per 100ml	Absent	IS 1622

End of Report

V. Anil
Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 083

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