Tamilnadu Petroproducts Limited

Ref: TPL – PO/ 2025/EC Comp/11 13th NOV- 2025

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 – **APR-2025 to SEP-2025 - reg.**

Ref: F.No. J-11011/280/2013-IA-II (I) dated 15.05.2015

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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 April 2025 to September 2025 for your kind reference.

Thanking you,

Yours faithfully,
For Tamilnadu Petroproducts Limited

Tamilnadu Petroproducts Limited Manali Chennai 600 068

N.Murugan
VP – Operations

1984 2024 40 Years MOVING AHEAD

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 : 33AAACT1295M1Z6

Environmental Clearance Compliance Status Report
For the period from APR 2025 to SEP 2025

Ref : No. J – 11011/280/2013 – IA.II(I) dated 15.05.2015

(A) Specific Condition:

	Conditions	Compliance
i	Caustic scrubber shall be provided to control Chlorine emissions. The scrubbed water should be sent to ETP for further treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. Scrubber vent shall be provided with on-line detection and alarm system to indicate higher that permissible value of controlled parameters. At no time, the emission levels shall go beyond the prescribed standards. The system should be interlocked with the pollution control equipment so that in case of any increase in pollutants beyond permissible limits, plant should be automatically stopped.	Complied Caustic scrubber is provided to control Chlorine emissions. The scrubbed water is sent to ETP for further treatment. Efficiency of scrubber is being monitored regularly and maintained properly by following measures. • Measuring concentration of circulating caustic and vent gas emission level. • Caustic solution is replenished when there is a depletion in level. • It is also replaced, whenever the concentration goes below the limit. Online Chlorine analyser is installed in the scrubber vent stack with alarm set at 1.5 ppm as high alarm value for continuous monitoring and real time online monitoring data is being transmitted to TNPCB and CPCB's servers. The emission levels have always been maintained within the prescribed standards. The emission levels are continuously monitored, and real time monitoring data is being transmitted online to TNPCB and CPCB's servers. Interlocking system is provided with the pollution control equipment, to shut down the unit, in case of any increase in pollution load.

ii	Ambient air quality data shall be collected as per NAAQS standards notified by the ministry vide GSR No. 826 (E) dated 16.09.2009 the levels of PM_{10}, $PM_{2.5}$, SO_2, NOx, CO, Cl_2, VOC and HC (methane and non-methane) shall be monitored in the ambient air and emission from stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the Tamilnadu Pollution Control Board /TNPCB)	Complied • Ambient Air Quality (AAQ) is monitored manually at 5 locations through accredited lab as per NAAQS standards notified by the ministry vide GSR No. 826 (E) dated 16.09.2009 for 12 parameters, once in 6 months basis. • Ambient Air Quality (AAQ) is being monitored at 2 locations for the parameters such as $PM_{2.5}$, PM_{10}, SO_2, CO, NO_x, Ammonia, Chlorine by internal lab once in a week. • Stack emissions are monitored through accredited lab, once in 6 months basis. • Online continuous Ambient Air Quality monitoring equipment as well as online continuous stack monitoring equipment are installed and the real time monitored data are being transmitted to TNPCB and CPCB's servers. • The real time data are also displayed near the main gate of the company. • The monitored data are uploaded on the company's website and also being updated periodically. • In addition to this the manually monitored data are being submitted to TNPCB on monthly basis and CPCB as well as the Regional office of MoEF once in six months.
iii	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling and conveyance of chemical/materials, multi	Complied The following measures are taken to control the fugitive emission. • HC and Chlorine detectors are provided with alarm system to monitor fugitive emission in the

	cyclone separator and water sprinkler system. Dust suppression system including water sprinkler system shall be provided at loading and unloading areas to control dust emissions. Fugitive emission in the work zone environment. Product, Raw materials storage area, etc., shall be regularly monitored. All necessary steps should be taken for monitoring of Chlorine as well as VOC in the proposed plant.	work zone environment, Product, raw materials and storage area. • Raw material Propylene is stored in bullets with sensors/detectors. • Chlorine is received through pipeline from the adjacent Heavy Chemicals Division of the same company, thereby avoiding any potential emissions while handling Cylinders • Propylene Oxide (PO) and Chlorinated Organics are stored in closed tanks with sensors/detectors and handled in closed pipelines. • Lime (bags) is stored in a closed shed. • Water sprinkling is being carried out at lime Loading and unloading area for dust suppression. • Ambient Air Quality (AAQ) is monitored for Chlorine and VOC manually at 2 locations through accredited lab. • Chlorine in the Ambient Air is monitored at 2 locations by internal lab once in a week. • Online analysers for Chlorine and VOC are installed for continuous monitoring and the real time monitored data are being transmitted to TNPCB and CPCB's servers
iv	The gaseous emissions from DG set shall be disposed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complied. In the Emergency DG set, which is operated for short duration, during power outages, Adequate stack height is provided, as per the CPCB standard to dispose gaseous emission from stack. Ambient Noise level is monitored manually by internal lab once in a month.

v	Leak Detection and Repair programme shall be prepared and implemented to control HC/VOC emissions. Focus shall be given to prevent fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to. Fugitive emissions of HC from product storage tank yards etc., must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations. Company shall protect their equipment from aging.	Complied • Leak Detection and Repair (LDAR) programme is prepared and is being implemented to control HC/VOC emissions. • LDAR survey is being carried out through accredited laboratory once in a year. • LDAR survey has been conducted through M/s. Hubert Enviro Care System (P) Ltd, Chennai in March-2025. • Preventive maintenance for Pumps are carried out once in six months. • Preventive monitoring of Valves and pipelines are carried out & required maintenance carried out to prevent fugitive emissions • Proper maintenance and preventive checks for mechanical seals of pumps and valves are carried out once in six months by internal team. • VOC detectors are installed at Product Storage Yard (Propylene Oxide and Propylene Storage tanks area) to monitor fugitive emission continuously. • VOC detectors/sensors are provided in the work zone environment, Product, Raw materials storage area for continuous monitoring. • Proper maintenance program is developed & implemented to protect equipment from ageing.

vi	Alarm for chlorine leakage if any in the liquid chlorine storage area is provided along with automatic start of the scrubbing system.	Complied Chlorine is not stored in tanks & is received by pipelines from the adjacent unit of Heavy Chemicals Division of the same company Chlorine sensors are provided with alarm, to monitor continuously for chlorine leakage. Chlorine scrubber is being operated continuously.
vii	Total water requirement from CMWSSB water supply shall not exceed 1650 m^3/day and prior permission should be obtained from competent authority.	Complied. The total water requirement is met with Tertiary treated reverse osmosis (TTRO) water from CMWSSB, based on prior permission & has not exceeded 1650 m3/day.
viii	As proposed, industrial effluent shall be treated in ETP. Treated effluent from ETP shall be discharged to sea after conforming to the standards prescribed for the effluents discharge and obtaining permission from the TNPCB. Domestic sewage should be treated in STP.	Complied Effluent generated from PO plant is treated in the Effluent Treatment plant. Treated effluent from ETP is discharged to sea after conforming to the prescribed standards as stipulated by TNPCB. Obtained permission (CTO) from TNPCB for disposal of treated effluent into sea. Domestic sewage is treated in the common Sewage Treatment Plant (STP).
ix	Treated effluent should be passed through guard pond. Monitoring (24*7) through online pH meter, flow meter and TOC analyser should be installed. The data to be made available to the respective SPCB and in the company's website.	Complied Collection Pit is provided and treated effluent is pumped to sea through Collection pit. Online continuous analyser is provided to monitor for pH, TOC (BOD / COD), TSS and Flow meters etc., and the real time monitored data are being transmitted to TNPCB and CPCB's servers. The manually monitored data are being submitted to TNPCB on monthly basis and uploaded on the company's website periodically.

x	The company shall obtain Authorisation for collection, storage and disposal of hazardous waste under the Hazardous waste (MH and TB) Rules 2008 and amended as on date for management of Hazardous wastes and prior permission from TNPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for firefighting facilities in case of emergency	Complied Authorisation for collection, storage and disposal of Hazardous waste under hazardous waste (MH and TB) Rules 2016 has been obtained from TNPCB. Solid waste (lime sludge) is disposed to downstream industries such as brick manufacturers. Also, permission is obtained for disposal of hazardous waste to TSDF vide Authorisation No: 21HFC20874189 dated 28.12.2021. Validity up to 31.03.2026 Firefighting facilities are provided & Onsite emergency plan is maintained to mitigate, in case of any emergency.
xi	The company shall strictly comply with the rules & guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA) 1989	Complied Hazardous chemicals are being handled as per the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 and rules and guidelines are strictly being followed. Material Safety data sheets are available for handling chemicals. Hazardous Chemicals are transported as per the Motor Vehicle Act (MVA) 1989.
xii	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms. Fire hydrant system shall be provided along with fire monitor and flame detection system in the process as well as storage areas.	Complied Arrangements such as firefighting facilities, portable fire extinguisher, fire monitors, fire hydrants, sprinkler system, etc., are provided for protection of possible fire hazards during manufacturing process in material handling. Firefighting system is provided as per the norms and obtained Fire license from Tamilnadu Fire & Rescue services, Govt. of Tamilnadu.

		Fire hydrant system along with fire monitors, Portable extinguisher and flame detectors are provided in the process as well as storage areas. Additionally, Medium velocity sprinkler system is also provided in the Propylene, Dichloropropane and Propylene oxide storage tanks.
xiii	All the recommendations made in the risk assessment report should be satisfactorily implemented.	Complied Recommendations given in the risk assessment report are implemented and being maintained. Salient recommendations are as follows: • Nitrogen gas padding is provided in propylene oxide storage and during transfer to prevent air entering the system and forming explosive mixture. • Remote operated shut off valve is provided at inlet of reactor feed line to cut off chlorine, in case of emergency. • Manual isolation at Heavy Chemicals Division and automatic shutoff valve at PO plant are provided in the chlorine pipelines. • Medium velocity sprinkler system is provided to propylene oxide and propylene storage bullets. • Dyke is provided in the storage area to contain spill. • Fencing is provided with security, to the entire storage area. • Entry is restricted to 50 m from the storage area and being ensured. • The area around the storage is free of ignition sources and other hazards.

		• Sensors with alarm systems are provided in the storage bullets • Fire hydrant system is provided throughout the storage area. • Regular mock drill is being conducted. • Onsite emergency plan is available, and recommendations are being implemented.
xiv	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories Act	Complied Occupational health surveillance is being conducted for employees periodically, as per the Factories Act. Health records are available and being maintained as per the Factories Act.
xv	As proposed, greenbelt should be developed at least 48561 m2 area in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO. Selection of plant species should be as per the CPCB guidelines.	Complied Green belt is developed in 48561 m^2 (4.8562 Hectare) area in and around the factory premises to mitigate the effects of fugitive emissions all around the factory. Plant species are selected as per the CPCB guidelines.
xvi	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc., the housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Complied Contract workers were engaged for construction activity from nearby location and hence housing facility was not provided during the construction time. However other facilities such as toilet, safe drinking water, medical facilities were provided to the construction workers during the construction time. Construction wastes were disposed within the premises as landfill without affecting the surrounding environment.

	General Conditions	
i	The project authorities shall strictly adhere to the stipulations made by the State Government and TN Pollution Control Board.	Complied All the stipulations made by the State Government and TN Pollution Control Board are being adhered regularly.
ii	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied. No further expansion or modification in the plant will be carried out, without prior approval of the Ministry of Environment and Forests. Fresh reference will be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, in case of any deviations or alterations in the project proposal.
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentration are anticipated.	Complied Locations of ambient air quality monitoring stations are selected to monitor ambient air quality as per given guidelines & in consultation with TNPCB. One mobile monitoring station in the upwind and one mobile monitoring station in the downwind direction are provided for ambient air quality monitoring, which includes where maximum ground level concentration is anticipated.
iv	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc., on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment	Complied Acoustic hoods, silencers, enclosures, etc., are provided keep the noise level within the prescribed standards. Ambient noise levels at five locations are being monitored manually during day and nighttime by internal lab once in a month.

	(Protection) Act 1989 viz 75 dBA (day time) and 70 dBA (night time)	The ambient noise levels are within the prescribed standards of 75 dBA (daytime) and 70 dBA (nighttime).
v	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Complied Rainwater harvesting facility is provided at the following buildings to collect roof top rainwater and it is let into freshwater reservoir. • Mechanical workshop • Fire water pump house • Raw Water Pump house • Production Store Room Area covered is 5000 m^2. The harvested water is utilised for process activities to conserve fresh water. Additionally, Recharge percolation pits are provided to recharge the rainwater into the pits.
vi	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied Training on safety and health aspects of chemicals handling is conducted to all employees regularly. Pre-employment and routine periodical medical examinations are being conducted to all employees on regular basis.
vii	Usage of personal protective Equipment (PPEs) by all employees / workers shall be ensured	Complied Personal protective Equipment (PPEs) are provided to all employees / workers and ensured for using.
viii	The company shall also comply with all the environmental protection measures and safe guards proposed in the documents submitted to the Ministry.	Complied The environmental protection measures and safe guards proposed in the documents submitted to the Ministry are being complied at all times.
	All the recommendations made in the EIA/EMP in respect of environmental management, Risk mitigation measures	Complied Recommendations made in the EIA/EMP in respect of environmental

	and public hearing relating to the project shall be implemented.	management and risk assessment report are being implemented regularly. • Nitrogen gas padding is provided in propylene oxide storage and during transfer, to prevent air entering the system and forming explosive mixture. • Remote operated shut off valve is provided at inlet of reactor feed line to cut off chlorine, in case of emergency. • Manual isolation at HCD plant and automatic shutoff valve at ECH plant are provided in the chlorine pipelines. • Medium velocity sprinkler system is provided to propylene oxide and propylene storage bullets. • Dyke is provided in the storage area to contain spill. • Fencing is provided with security, to the entire storage area. • Entry is restricted to 50 m from the storage area and being ensured. • The area around the storage is free of ignition sources and other hazards. • Sensors with alarm systems are provided in the storage bullets • Fire hydrant system is provided throughout the storage area • Regular mock drill is being conducted. • Onsite emergency plan is available, and recommendations are being implemented.
ix	The company shall undertake all relevant measures for improving the socio-economic conditions of the	**Being Complied** Following social upliftment schemes are being carried out in the nearby area.

	surrounding area CSR activities shall be undertaken by involving local villages and administration.	**1) Primary Health Care Centre (PHCC)** is provided at the following locations to cater to the primary health care needs of the people residing in nearby areas. • Sadayan Kuppam village, Manali • Vichoor village, Manali • Seemavaram village • Kannampalayam village • Periyasekkadu village • Mobile PHCC is provided. **2) Rest Rooms were constructed at the following locations.** • Government high school at Manali New Town. • Government high school at Redhills. • Government high school at Vichoor. • Government high school at Padiyanallur • Near Sathankadu police station
x	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied Eco-developmental measures (mainly green belt development) are taken to improve the environment.
xi	A separate Environmental management cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied A separate Environmental management cell equipped with full-fledged laboratory facilities is established for carrying out the Environmental Management and Monitoring functions. In addition, third party laboratory is also engaged for monitoring.
xii	The company shall earmark sufficient funds towards capital cost and recurring cost/annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the	Complied Adequate funds towards capital cost and recurring cost/annum are allocated to implement the conditions stipulated by the Ministry of Environment and

	implementation schedule for all the conditions stipulated herein.	Forests as well as the State Government. Implementation schedules are prepared for all the conditions stipulated herein and are implemented.
	The funds so earmarked for environmental management / pollution control measures shall not be diverted for any other purpose.	Complied Funds earmarked for environmental management / pollution control measures, are not diverted for any other purpose.
xiii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat / Municipal corporation, urban local body and local NGO, if any from who suggestions/representations, if any were received while processing the proposal.	Complied No suggestion was received from Panchayat / Municipal corporation urban local body and local NGO while processing the proposal.
xiv	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as email) to the respective Regional office of MoEF, the respective Zonal office of CPCB and the TN pollution Control Board.	Complied Six monthly reports on the status of the compliance of the stipulated environmental clearance conditions including results of monitored data is submitted to MOEF Regional Office through e-mail regularly.
	A copy of Environmental clearance and six-monthly compliance status report shall be posted on the website of the company.	Complied. Six monthly compliance reports including monitoring data are uploaded in our company's website (www.tnpetro.com) and also updated periodically.
xv	The environmental statement for each financial year ending 31st March in Form – V as is mandated shall be submitted to the concerned State pollution Control Board as prescribed under Environment (Protection) Rules 1986, as amended subsequently shall also be put on the	Complied The environmental statement (Form V) is being submitted to TNPCB once in a year before 30th Sep every year. Environmental statement (Form V) for the year 2024 – 2025 was submitted on 25.09.2025.

	website of the company along with the status of compliance of environmental clearance conditions and shall also sent to the respective Regional offices of MoEF by email.	Further, a copy of Form V is uploaded in the company's website. (www.tnpetro.com) The six-monthly compliance status including results of monitored data is being submitted to MOEF Regional Office through e-mail regularly.
xvi	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB / Committee and may also be seen at website of the Ministry at http;//envfor.nic.in. this shall be advertised within seven days from the date of issue of the clearance letter, at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concern Regional Office of the Ministry.	Complied Advertisements in two local newspapers (In English in The Financial Express and in Tamil in Makkal Kural) was published on 10.10.2018 and copies of the same were submitted to the Regional Office.
xvii	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied Details the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project were informed to Regional Office, MoEF&CC.

TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No. 30/AAQS/2025-26 Date: 04.08.2025

1. Name of the Industry : **M/s. TPL (ECH),**
2. Address of the Industry : Manali Express Highway, Manali, Chennai - 68.
3. Date of Survey : 28.07.2025
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
	32	36		50	61
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	WNW – ESE		Mean Wind Speed (km/hr)	20.2	

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	--	72	11	19	<0.05
2	On top of platform near Propylene Oxide Filling Point	E	280	3.0	--	70	12	22	<0.05
3	On top of platform near STP (Gate No 5)	SE	700	3.0	42	90	16	28	<0.05
4	On top of platform near ERC Building (Gate No 3)	SW	200	3.0	--	82	15	24	<0.05
5	On top of platform near Flare Area	NW	240	3.0	26	68	10	17	<0.05

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

4/8/25

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 ...

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

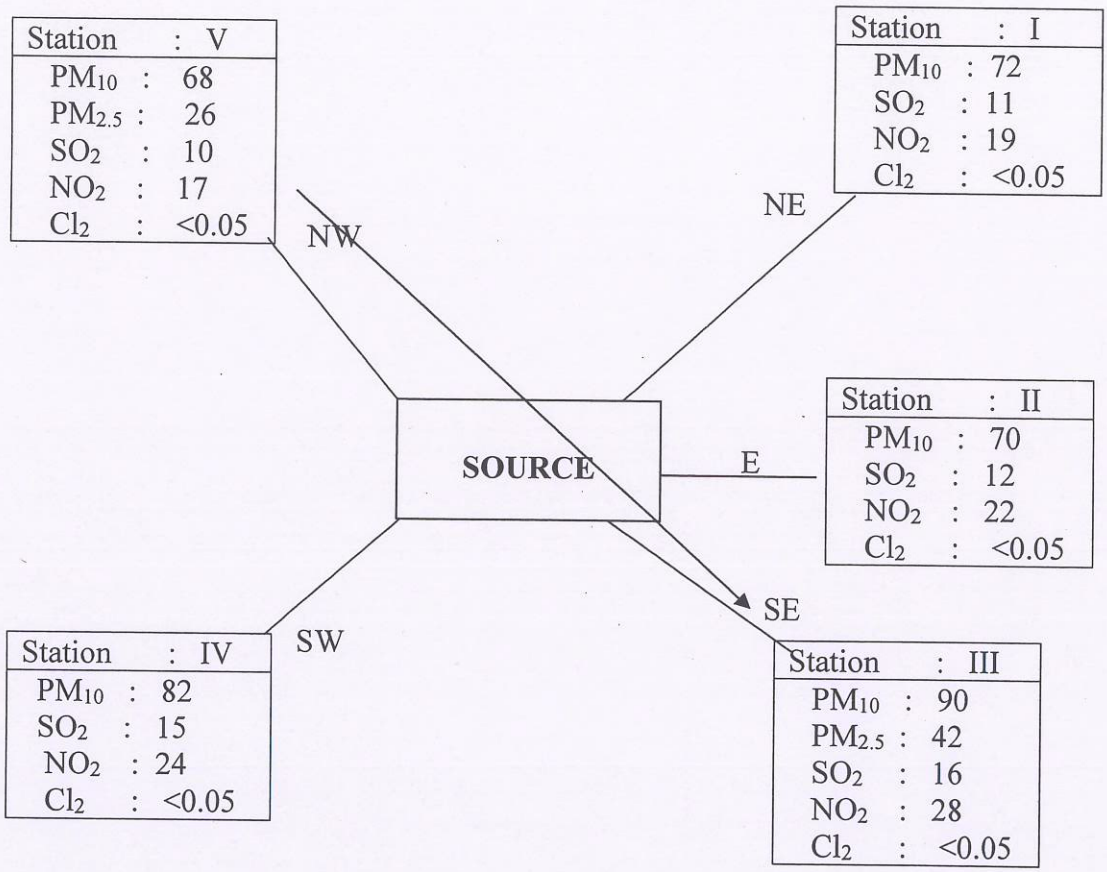
AMBIENT AIR QUALITY SURVEY

Schematic Diagram Showing Location of Sampling

Report No. 30/AAQS/2025-26

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

Date of Survey : 28.07.2025



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

Meteorological Conditions:	
Predominant Wind Direction	WNW – ESE
Wind Speed (Km/hr)	20.2
Weather Condition	Partially Cloudy
Rainfall	Nil

4/8/25

Chief Scientific Officer,

TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

STACK MONITORING SURVEY – Report of Analysis

Report No. 30/AAQS/2025-26 Date: 04.08.2025

1. Name of the Industry : **M/s. TPL (ECH),**
2. Address of the Industry : Manali Express Highway, Manali, Chennai – 68
3. Date of Survey : 28.07.2025
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	415	9.8	8656	1.7	<1.0	36.4	--
2	Vent Gas Scrubber	--	311	5.8	471	2.4	--	--	1.3

Test Performed	Test Method
PM	IS 11255 : (Part 1) – 1985
SO2	IS 11255 : (Part 2) – 1985
NOx	IS 11255 : (Part 7) – 2005

4/8/25

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 : 28.07.2025

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 – 20.581 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	309
13.	Temp of flue gas in °K	415	311
14.	Velocity of flue gas in m/sec	9.8	5.8
15.	Volume of flue gas sampled in m^3	1.020	1.033
16.	Gaseous Discharge rate per day in Nm^3/hr	8656	471

4/8/25

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

TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

STACK MONITORING SURVEY – Additional details

Report No. 30/SM/2025-26 Date: 04.08.2025

1. Name of the Industry : **M/s. TPL (ECH)**

2. Address of the Industry : Manali Express Highway, Manali, Chennai – 68

3. Date of Survey : 28.07.2025

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	--

4/8/25

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. 30/ NLS/2025-26 Date: 04.08.2025

1.	Name of the Industry	**M/s. TPL (ECH)**
2.	Address of the Industry	Manali Express Highway, Manali, Chennai - 68
3.	Date of Survey	28.07.2025

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 – 15.30

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	60.4	55.8	69.1
2	Near Propylene Oxide Filling Point	10	280	E	54.2	50.6	62.7
3	Near STP (Gate No.5)	10	700	SE	59.6	53.4	71.2
4	Near ERC Building (Gate No 3)	10	200	SW	62.2	58.1	73.0
5	Near Flare Area	10	240	NW	58.8	51.7	66.4

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

4/8/25

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

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 : 28.07.2025
4. Predominant Wind Direction : WNW - ESE
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}	90	68	100
	PM.2.5	42	26	60
2.	GASEOUS POLLUTANTS:-			
	(i) SO_2	16	10	80
	(ii) NO_2	28	17	80

II. STACK MONITORING:-

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

4/8/25

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 Anlaysis

Report No.30 /TVOC/2025-26 dated : 04.08.2025

1. Name of the Industry : **M/s. TPL (ECH)**
2. Address of the Industry : Manali Express Highway, Manali, Chennai - 68
3 Date of Survey : 28.07.2025
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

4/8/25

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

TPL – ECH – PO Plant

Environmental Clearance – News paper Advertisement

தமிழ்நாடு பெட்ரோப்ராடக்ட்ஸ் லிமிடெட்
பதிவு அலுவலகம்: மணலி எக்ஸ்பிரஸ் ஹைவே, மணலி, சென்னை-600 068.
நிபஎ: L23200TN1984PLC010931
தொலைபேசி: 044-25945588
வலைதளம்: www.tnpetro.com
மின்னஞ்சல்: secy-legal@tnpetro.com

பொது அறிவிப்பு

தமிழ்நாடு பெட்ரோப்ராடக்ட்ஸ் லிமிடெட், மணலி, சென்னை 600 068ல் புரோப்பிலீன் ஆக்ஸைடு தயாரிக்கும் மாற்று பொருள் உற்பத்தித் திட்டத்திற்கு மத்திய சுற்றுச்சூழல், வனத்துறை மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சூழல் அனுமதி வழங்கப்பட்டுள்ளது (கடிதம் எண். J-1101I/280/2013-IA-II(I)Dated 15.05.2015).

மேற்படி திட்டத்திற்கான சுற்றுச்சூழல் அனுமதி கடிதத்தின் நகல் தமிழ்நாடு மாசுகட்டுப்பாடு வாரியம்/கமிட்டி, சென்னை அலுவலகத்தில் உள்ளது. மேலும் இக்கடிதத்தின் நகலை மத்திய சுற்றுச்சூழல், வனத்துறை மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் இணையத்தளத்திலும் (http: //envfor.nic.in) காணலாம்.

இடம்: சென்னை - 600068
தேதி : 9.10.2018

உதவி பொது மேலாளர் - மனிதவளம்

Makkal kural dated 10.10.2018

Tamilnadu Petroproducts Limited
Regd.Office & Factory: Manali Express Highway, Manali, Chennai 600 068.
CIN: L23200TN1984PLC010931
Telefax: 044-25945588
Website: www.tnpetro.com
E-mail: secy-legal@tnpetro.com

PUBLIC NOTICE

This is to inform that the Ministry of Environment, Forests and Climate Change, New Delhi vide their letter No. J-1101I/280/2013-IA-II(I) dated 15th May 2015 have accorded Environmental Clearance for the Product mix change to manufacture Propylene Oxide in the existing TPL-ECH plant, Manali, Chennai - 600 068, Tamilnadu.

Copy of the Environmental Clearance letter referred above for the proposed project is available at Tamilnadu Pollution Control Board/Committee, Chennai and can also be seen at website of the Ministry of Environment, Forests and Climate Change at http //envfor.nic.in.

Place : Chennai - 600 068
Date : 9th October, 2018

AGM - HR

The Financial Express dated 10.10.2018

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
(A Division of Re Sustainability Limited)
Plot No: 5-15, 28-33, SIPCOT Industrial Complex, Gummidipoondi-601201.
Phone: +91 9677122694, E-mail: laboratorytnwml@resustainability.com

TC-11749

Sustainability

TEST REPORT

URL No:TC-1174925000000789F

Test Report No: RSIWMSL/CON/25-26/10/0453

Discipline: Chemical
Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH-PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**: 25.10.25**	Sample Condition	**: Sample received in Polyethylene cover**
Analysis Completion date	**: 25.10.25**	Sample description/Code	**: Ambient Air Quality**
Analysis Starting Date	**: 17.10.25**	Sample Location	**: Near Main Gate**
Sampling Date & Time	**: 16.10.25 to 17.10.25 (10:00am to10:00am)**	Sample registration no	**: RSIWMSL/25-26/10/AAQ/0453**
Sample received Date	**: 17.10.25**	Sample Collected By	**: Re Sustainability IWM Solutions Ltd**
Sub-Contracting of Tests	**: NA**	Sampling Procedure	**: IS 5182**
Environmental Condition	:		

Ambient Temperature: Min: 24.8° C, Max: 32.9°C
Relative Humidity : Min: 70% & Max: 99%

TEST RESULT

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	**Particulate Matter (PM2.5)**	$\mu g/m^3$	IS: 5182-Part-24	24.12	**60**
2.	**Particulate Matter (PM10)**	$\mu g/m^3$	IS: 5182-Part-23	55.84	**100**
3.	**Sulphur Dioxide as SO_2**	$\mu g/m^3$	IS: 5182-Part-2	13.45	**80**
4.	**Nitrogen Dioxide as NO_2**	$\mu g/m^3$	IS: 5182-Part-6	21.94	**80**
5.	**Carbon Monoxide as CO**	mg/m^3	IS: 5182 -Part-10	BDL (DL: 1.14)	**4.0**
6.	**Ammonia as NH3**	µg/m3	IS: 5182 -Part-25	BDL (DL: 20)	**400**
7.	**Ozone as O_3**	$\mu g/m^3$	IS: 5182-Part-9	BDL (DL: 27)	**180**
8.	**Lead as Pb**	$\mu g/m^3$	IS: 5182-Part-22	BDL (DL: 0.1)	**1.0**
9.	**Arsenic as As**	ng/m3	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	**6.0**
10.	**Nickel as Ni**	ng/m^3	IS: 5182 -Part-26	BDL (DL: 1.0)	**20**
11.	**Benzo (a) Pyrene**	ng/m3	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	**1.0**
12.	**Benzene as C_6H_6**	µg/m3	RSIWMSL/LAB_SOP_044	BDL (DL: 2.0)	**5.0**

Note: BDL – Below Detection Limit, DL – Detection Limit.

Remarks:

- **The reports results relate only to be samples Tested.**
- **The Above Sample complies as per NAAQS limit which is provided in the environmental protection rule 3 (3B) Nov.2009, against the above tested parameter. NAAQS: National Ambient Air Quality Standard.**
- **Test report shall not be reproduced in full or part without the written approval of the RSIWMSL laboratory.**

Verified by

Authorized Signatory

----------End of the Report----------

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
(A Division of Re Sustainability Limited)
Plot No: 5-15, 28-33, SIPCOT Industrial Complex, Gummidipoondi-601201.
Phone: +91 9677122694, E-mail: laboratorytnwml@resustainability.com

TC-11749

TEST REPORT

URL No:TC-1174925000000790F

Test Report No: RSIWMSL/CON/25-26/10/0455

Discipline: Chemical
Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH-PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**: 25.10.25**	Sample Condition	**: Sample received in Polyethylene cover**
Analysis Completion date	**: 25.10.25**	Sample description/Code	**: Ambient Air Quality**
Analysis Starting Date	**: 17.10.25**	Sample Location	**: Near Flare Tower**
Sampling Date & Time	**: 16.10.25 to 17.10.25 (10:10am to10:10am)**	Sample registration no	**: RSIWMSL/25-26/10/AAQ/0454**
Sample received Date	**: 17.10.25**	Sample Collected By	**: Re Sustainability IWM Solutions Ltd**
Sub-Contracting of Tests	**: NA**	Sampling Procedure	**: IS 5182**
Environmental Condition	:		

Ambient Temperature: Min: 24.8° C, Max: 32.9°C
Relative Humidity : Min: 70% & Max: 99%

TEST RESULT

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	**Particulate Matter (PM2.5)**	µg/m^3	IS: 5182-Part-24	20.79	**60**
2.	**Particulate Matter (PM10)**	µg/m^3	IS: 5182-Part-23	52.52	**100**
3.	**Sulphur Dioxide as SO_2**	µg/m^3	IS: 5182-Part-2	9.42	**80**
4.	**Nitrogen Dioxide as NO_2**	µg/m^3	IS: 5182-Part-6	17.54	**80**
5.	**Carbon Monoxide as CO**	mg/m^3	IS: 5182 -Part-10	BDL (DL: 1.14)	**4.0**
6.	**Ammonia as NH3**	µg/m3	IS: 5182 -Part-25	BDL (DL: 20)	**400**
7.	**Ozone as O_3**	µg/m^3	IS: 5182-Part-9	BDL (DL: 27)	**180**
8.	**Lead as Pb**	µg/m^3	IS: 5182-Part-22	BDL (DL: 0.1)	**1.0**
9.	**Arsenic as As**	ng/m3	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	**6.0**
10.	**Nickel as Ni**	ng/m^3	IS: 5182 -Part-26	BDL (DL: 1.0)	**20**
11.	**Benzo (a) Pyrene**	ng/m3	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	**1.0**
12.	**Benzene as C_6H_6**	µg/m3	RSIWMSL/LAB_SOP_044	BDL (DL: 2.0)	**5.0**

Note: BDL – Below Detection Limit, DL – Detection Limit.

Remarks:

- **The reports results relate only to be samples Tested.**
- **The Above Sample complies as per NAAQS limit which is provided in the environmental protection rule 3 (3B) Nov.2009, against the above tested parameter. NAAQS: National Ambient Air Quality Standard.**
- **Test report shall not be reproduced in full or part without the written approval of the RSIWMSL laboratory.**

Verified by

Authorized Signatory

----------End of the Report----------

TC-11749

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
(A Division of Re Sustainability Limited)
Plot No: 5-15, 28-33, SIPCOT Industrial Complex, Gummidipoondi-601201.
Phone: +91 9677122694, E-mail: laboratorytnwml@resustainability.com

Sustainability

TEST REPORT

URL No:TC-1174925000000791F

Test Report No: RSIWMSL/CON/25-26/10/0455

Discipline: Chemical
Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH-PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**: 25.10.25**	Sample Condition	**: Sample received in Polyethylene cover**
Analysis Completion date	**: 25.10.25**	Sample description/Code	**: Ambient Air Quality**
Analysis Starting Date	**: 17.10.25**	Sample Location	**: Near STP & Gate No:05**
Sampling Date & Time	**: 16.10.25 to 17.10.25 (10:15am to10:15am)**	Sample registration no	**: RSIWMSL/25-26/10/AAQ/0455**
Sample received Date	**: 17.10.25**	Sample Collected By	**: Re Sustainability IWM Solutions Ltd**
Sub-Contracting of Tests	**: NA**	Sampling Procedure	**: IS 5182**
Environmental Condition	:		

Ambient Temperature: Min: 24.8° C, Max: 32.9°C
Relative Humidity : Min: 70% & Max: 99%

TEST RESULT

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	**Particulate Matter (PM2.5)**	$\mu g/m^3$	IS: 5182-Part-24	19.96	**60**
2.	**Particulate Matter (PM10)**	$\mu g/m^3$	IS: 5182-Part-23	51.67	**100**
3.	**Sulphur Dioxide as SO_2**	$\mu g/m^3$	IS: 5182-Part-2	10.76	**80**
4.	**Nitrogen Dioxide as NO_2**	$\mu g/m^3$	IS: 5182-Part-6	18.70	**80**
5.	**Carbon Monoxide as CO**	mg/m^3	IS: 5182 -Part-10	BDL (DL: 1.14)	**4.0**
6.	**Ammonia as NH3**	µg/m3	IS: 5182 -Part-25	BDL (DL: 20)	**400**
7.	**Ozone as O_3**	$\mu g/m^3$	IS: 5182-Part-9	BDL (DL: 27)	**180**
8.	**Lead as Pb**	$\mu g/m^3$	IS: 5182-Part-22	BDL (DL: 0.1)	**1.0**
9.	**Arsenic as As**	ng/m3	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	**6.0**
10.	**Nickel as Ni**	ng/m^3	IS: 5182 -Part-26	BDL (DL: 1.0)	**20**
11.	**Benzo (a) Pyrene**	ng/m3	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	**1.0**
12.	**Benzene as C_6H_6**	µg/m3	RSIWMSL/LAB_SOP_044	BDL (DL: 2.0)	**5.0**

Note: BDL – Below Detection Limit, DL – Detection Limit.

Remarks:

- **The reports results relate only to be samples Tested.**
- **The Above Sample complies as per NAAQS limit which is provided in the environmental protection rule 3 (3B) Nov.2009, against the above tested parameter. NAAQS: National Ambient Air Quality Standard.**
- **Test report shall not be reproduced in full or part without the written approval of the RSIWMSL laboratory.**

Verified by

Authorized Signatory

----------**End of the Report**----------

TC-11749

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
(A Division of Re Sustainability Limited)
Plot No: 5-15, 28-33, SIPCOT Industrial Complex, Gummidipoondi-601201.
Phone: +91 9677122694, E-mail: laboratorytnwml@resustainability.com

Sustainability

TEST REPORT

URL No:TC-1174925000000792F

Test Report No: RSIWMSL/CON/25-26/10/0456

Discipline: Chemical
Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH-PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**: 25.10.25**	Sample Condition	**: Sample received in Polyethylene cover**
Analysis Completion date	**: 25.10.25**	Sample description/Code	**: Ambient Air Quality**
Analysis Starting Date	**: 17.10.25**	Sample Location	**: Near PO Filling Point**
Sampling Date & Time	**: 16.10.25 to 17.10.25 (10:20am to10:20am)**	Sample registration no	**: RSIWMSL/25-26/10/AAQ/0456**
Sample received Date	**: 17.10.25**	Sample Collected By	**: Re Sustainability IWM Solutions Ltd**
Sub-Contracting of Tests	**: NA**	Sampling Procedure	**: IS 5182**

Environmental Condition :
Ambient Temperature: Min: 24.8° C, Max: 32.9°C
Relative Humidity : Min: 70% & Max: 99%

TEST RESULT

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	**Particulate Matter (PM2.5)**	$\mu g/m^3$	IS: 5182-Part-24	19.13	**60**
2.	**Particulate Matter (PM10)**	$\mu g/m^3$	IS: 5182-Part-23	50.32	**100**
3.	**Sulphur Dioxide as SO_2**	$\mu g/m^3$	IS: 5182-Part-2	7.62	**80**
4.	**Nitrogen Dioxide as NO_2**	$\mu g/m^3$	IS: 5182-Part-6	15.91	**80**
5.	**Carbon Monoxide as CO**	mg/m^3	IS: 5182 -Part-10	BDL (DL: 1.14)	**4.0**
6.	**Ammonia as NH3**	µg/m3	IS: 5182 -Part-25	BDL (DL: 20)	**400**
7.	**Ozone as O_3**	$\mu g/m^3$	IS: 5182-Part-9	BDL (DL: 27)	**180**
8.	**Lead as Pb**	$\mu g/m^3$	IS: 5182-Part-22	BDL (DL: 0.1)	**1.0**
9.	**Arsenic as As**	ng/m3	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	**6.0**
10.	**Nickel as Ni**	ng/m^3	IS: 5182 -Part-26	BDL (DL: 1.0)	**20**
11.	**Benzo (a) Pyrene**	ng/m3	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	**1.0**
12.	**Benzene as C_6H_6**	µg/m3	RSIWMSL/LAB_SOP_044	BDL (DL: 2.0)	**5.0**

Note: BDL – Below Detection Limit, DL – Detection Limit.

Remarks:

- **The reports results relate only to be samples Tested.**
- **The Above Sample complies as per NAAQS limit which is provided in the environmental protection rule 3 (3B) Nov.2009, against the above tested parameter. NAAQS: National Ambient Air Quality Standard.**
- **Test report shall not be reproduced in full or part without the written approval of the RSIWMSL laboratory.**

Verified by **Authorized Signatory**

----------**End of the Report**----------

TC-11749

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
(A Division of Re Sustainability Limited)
Plot No: 5-15, 28-33, SIPCOT Industrial Complex, Gummidipoondi-601201.
Phone: +91 9677122694, E-mail: laboratorytnwml@resustainability.com

Sustainability

TEST REPORT

URL No:TC-1174925000000793F

Test Report No: RSIWMSL/CON/25-26/10/0457

Discipline: Chemical
Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH-PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**: 25.10.25**	Sample Condition	**: Sample received in Polyethylene cover**
Analysis Completion date	**: 25.10.25**	Sample description/Code	**: Ambient Air Quality**
Analysis Starting Date	**: 17.10.25**	Sample Location	**: Near CP Station-2**
Sampling Date & Time	**: 16.10.25 to 17.10.25 (10:25am to10:25am)**	Sample registration no	**: RSIWMSL/25-26/10/AAQ/0457**
Sample received Date	**: 17.10.25**	Sample Collected By	**: Re Sustainability IWM Solutions Ltd**
Sub-Contracting of Tests	**: NA**	Sampling Procedure	**: IS 5182**
Environmental Condition	:		

Ambient Temperature: Min: 24.8° C, Max: 32.9°C
Relative Humidity : Min: 70% & Max: 99%

TEST RESULT

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	**Particulate Matter (PM2.5)**	$\mu g/m^3$	IS: 5182-Part-24	20.38	**60**
2.	**Particulate Matter (PM10)**	$\mu g/m^3$	IS: 5182-Part-23	51.18	**100**
3.	**Sulphur Dioxide as SO_2**	$\mu g/m^3$	IS: 5182-Part-2	8.07	**80**
4.	**Nitrogen Dioxide as NO_2**	$\mu g/m^3$	IS: 5182-Part-6	15.28	**80**
5.	**Carbon Monoxide as CO**	mg/m^3	IS: 5182 -Part-10	BDL (DL: 1.14)	**4.0**
6.	**Ammonia as NH3**	µg/m3	IS: 5182 -Part-25	BDL (DL: 20)	**400**
7.	**Ozone as O_3**	$\mu g/m^3$	IS: 5182-Part-9	BDL (DL: 27)	**180**
8.	**Lead as Pb**	$\mu g/m^3$	IS: 5182-Part-22	BDL (DL: 0.1)	**1.0**
9.	**Arsenic as As**	ng/m3	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	**6.0**
10.	**Nickel as Ni**	ng/m^3	IS: 5182 -Part-26	BDL (DL: 1.0)	**20**
11.	**Benzo (a) Pyrene**	ng/m3	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	**1.0**
12.	**Benzene as C_6H_6**	µg/m3	RSIWMSL/LAB_SOP_044	BDL (DL: 2.0)	**5.0**

Note: BDL – Below Detection Limit, DL – Detection Limit.

Remarks:

- **The reports results relate only to be samples Tested.**
- **The Above Sample complies as per NAAQS limit which is provided in the environmental protection rule 3 (3B) Nov.2009, against the above tested parameter. NAAQS: National Ambient Air Quality Standard.**
- **Test report shall not be reproduced in full or part without the written approval of the RSIWMSL laboratory.**

Verified by

Authorized Signatory

----------**End of the Report**----------

TC-11749

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
(A Division of Re Sustainability Limited)
Plot No: 5-15, 28-33, SIPCOT Industrial Complex, Gummidipoondi-601201.
Phone: +91 9677122694, E-mail: laboratorytnwml@resustainability.com

Sustainability

TEST REPORT

URL No:TC-1174925000000795F
Test Report No: RSIWMSL /CON/25-26/10/0459

Discipline: Chemical
Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH-PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:25.10.2025**	Sample Condition	**: Sample received in Good**
Analysis Completion date	**:25.10.2025**	Sampling Procedure	**: IS:11255 & SOP**
Analysis Starting Date	**:17.10.2025**	Sample registration no	**: RSIWMSL /25-26/10/Stack/0459**
Sampling Date	**:16.10.2025**	Sample description/Code	**: Stack Emission**
Sample received Date	**:17.10.2025**	Sample Location	**: Boiler Stack**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

TEST RESULT

S.No.	Stack Details	
1	Diameter	1.2m
2	Temperature	465 ^{o}K
3	Velocity	5.18 m/sec
4	Volume of Gas Discharged	13306 Nm^{3}/hr

S.No.	Parameter	Unit	Test Method	RESULTS	Limit as Per MOEF Notification (Max)
1	Particulate Matter	mg/Nm^3	IS:11255 (Part-1)-1985	BDL(DL:5.0)	10
2	Oxides of Nitrogen	mg/Nm^3	IS:11255 (Part-7)-2005	61	350
3	Sulphur Dioxide	mg/Nm^3	IS:11255 (Part-2)-1985	5.02	50
4	Carbon Monoxides as CO	mg/Nm^3	RSIWMSL/LAB_SOP_34	BDL(DL:1.14)	150
5	Carbon Dioxide as CO2	%		5.6	--
6	Oxygen as O2	%		2.42	--
Note: BDL – Below Detection Limit, DL – Detection Limit					

Remarks:

- The reports results relate only to be samples Tested.
- The above emission results meet the standards as prescribed by MOEF Notification.
- Test reports shall not be reproduced in full or Part without the written approval of the RSIWMSL laboratory.

Verified by

Authorized Signatory

----------End of the Report----------

TC-11749

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
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Sustainability

TEST REPORT

URL No:TC-1174925000000794F
Test Report No: RSIWMSL /CON/25-26/10/0458

Discipline: Chemical
Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH-PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:25.10.2025**	Sample Condition	**: Sample received in Good**
Analysis Completion date	**:25.10.2025**	Sampling Procedure	**: IS:11255 & SOP**
Analysis Starting Date	**:17.10.2025**	Sample registration no	**: RSIWMSL /25-26/10/Stack/0458**
Sampling Date	**:16.10.2025**	Sample description/Code	**: Stack Emission**
Sample received Date	**:17.10.2025**	Sample Location	**: DG 1250 kVA Stack**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

TEST RESULT

S.No.	Stack Details	
1	Diameter	0.6 m
2	Temperature	469 ^{o}K
3	Velocity	5.47 m/sec
4	Volume of Gas Discharged	3474 Nm^3/hr

S.No.	Parameter	Unit	Test Method	Results	Limit as Per MOEF Notification (Max)
1	Particulate Matter	mg/Nm^3	IS:11255 (Part-1)-1985	26.0	50
2	Oxides of Nitrogen	mg/Nm^3	IS:11255 (Part-7)-2005	187	650
3	Sulphur Dioxide	mg/Nm^3	IS:11255 (Part-2)-1985	20.2	--
4	Carbon Monoxides as CO	mg/Nm^3	RSIWMSL/LAB_SOP_34	54	100
5	Carbon Dioxide as CO2	%		5.9	--
6	Oxygen as O2	%		14.7	--
Note: BDL – Below Detection Limit, DL – Detection Limit					

Remarks:

- The reports results relate only to be samples Tested.
- The above emission results not meet the standards as prescribed by MOEF Notification.
- Test reports shall not be reproduced in full or Part without the written approval of the RSIWMSL laboratory.

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Sustainability

TEST REPORT

Test Report No: RSIWMSL /CON/25-26/10/0460

Discipline: Chemical
Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH-PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:25.10.2025**	Sample Condition	**: Sample received in Good**
Analysis Completion date	**:25.10.2025**	Sampling Procedure	**: IS:11255 & SOP**
Analysis Starting Date	**:17.10.2025**	Sample registration no	**: RSIWMSL /25-26/10/Stack/0460**
Sampling Date	**:16.10.2025**	Sample description/Code	**: Stack Emission**
Sample received Date	**:17.10.2025**	Sample Location	**: Boiler Stack –VOC**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

TEST RESULT

S.No.	Parameter	Unit	Test Method	RESULTS
1	Ethylene Oxide	PPM	RSIWMSL/LAB_SOP_35	BDL(DL:1.0)
2.	Vinyl Chloride Monomer	PPM	RSIWMSL/LAB_SOP_35	BDL(DL:1.0)
3.	Ethylene Di-Chloride	PPM	RSIWMSL/LAB_SOP_35	BDL(DL:1.0)
4.	Acrylonitrile	PPM	RSIWMSL/LAB_SOP_35	BDL(DL:1.0)
5.	Propylene Oxide	PPM	RSIWMSL/LAB_SOP_35	BDL(DL:1.0)
Note: BDL – Below Detection Limit, DL – Detection Limit				

Remarks:

- **The reports results relate only to be samples Tested.**
- **Test reports shall not be reproduced in full or Part without the written approval of the RSIWMSL laboratory.**

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TEST REPORT

Test Report No: RSIWMSL /CONR/25-26/10/0461 **Page: 1 of 1**

Discipline: Chemical
Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH-PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:25.10.2025**	Sample Condition	**: Sample received in Good**
Analysis Completion date	**:25.10.2025**	Sampling Procedure	**: SOP**
Analysis Starting Date	**:17.10.2025**	Sample registration no	**: RSIWMSL /25-26/10/Stack/0461**
Sampling Date	**:16.10.2025**	Sample description/Code	**: Stack Emission**
Sample received Date	**:17.10.2025**	Sample Location	**: Chlorine Scrubber Stack**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

TEST RESULT

S.No.	Parameter	Unit	Test Method	RESULTS	Limit as Per MOEF Notification (Max)
1	Chlorine	mg/Nm^3	RSIWMSL/LAB_SOP_77	3.80	10
Note: BDL – Below Detection Limit, DL – Detection Limit					

Remarks:

- **The reports results relate only to be samples Tested.**
- **The above emission results meet the standards as prescribed by MOEF Notification.**
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TEST REPORT

Test Report No: RSIWMSL /CONR/25-26/10/0462

Discipline: Chemical
Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH-PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:25.10.2025**	Sample Condition	**: Sample received in Good**
Analysis Completion date	**:25.10.2025**	Sampling Procedure	**: SOP**
Analysis Starting Date	**:17.10.2025**	Sample registration no	**: RSIWMSL /25-26/10/Stack/0462**
Sampling Date	**:16.10.2025**	Sample description/Code	**: Stack Emission**
Sample received Date	**:17.10.2025**	Sample Location	**: Chlorine Scrubber Stack-VOC**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

TEST RESULT

S.No.	Parameter	Unit	Test Method	RESULTS
1	**Ethylene Oxide**	**PPM**	**RSIWMSL/LAB_SOP_35**	BDL(DL:1.0)
2.	**Vinyl Chloride Monomer**	**PPM**	**RSIWMSL/LAB_SOP_35**	BDL(DL:1.0)
3.	**Ethylene Di-Chloride**	**PPM**	**RSIWMSL/LAB_SOP_35**	BDL(DL:1.0)
4.	**Acrylonitrile**	**PPM**	**RSIWMSL/LAB_SOP_35**	BDL(DL:1.0)
5.	**Propylene Oxide**	**PPM**	**RSIWMSL/LAB_SOP_35**	BDL(DL:1.0)
Note: BDL – Below Detection Limit, DL – Detection Limit				

Remarks:

- **The reports results relate only to be samples Tested.**
- **Test reports shall not be reproduced in full or Part without the written approval of the RSIWMSL laboratory.**

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TC-11749

Sustainability

TEST REPORT

URL No:TC-1174925000000765F

Test Report No: RSIWMSL /CON/25-26/09/0435

Discipline: Chemical
Group: Water

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/W/0435**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Bore well water**
Sample received Date	**:30.09.2025**	Sample Location	**: Test Bore - 1**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result
1	Colour	Hazen	APHA 24th Edition; 2121B: 2023	15
2	Odour	-	IS 3025:Part 5 : 2018	Agreeable
3	Temperature	°C	APHA 24th Edition 2550 B : 2023	25.1
4	pH Value @ 25°C	-	APHA 24th Edition 4500 H^+ B : 2023	7.15
5	Taste	-	APHA 24th Edition 2160 C : 2023	Disagreeable
6	Conductivity @ 25°C	µS/cm	APHA 24th Edition; 2510 B: 2023	3280
7	Total Dissolved Solids @ 180°C	mg/L	APHA 24th Edition; 2540 C: 2023	1968
8	Aluminium as Al	mg/L	IS 3025 Part 55 : 2003	0.077
9	Calcium as Ca	mg/L	APHA 24th Edition; 3500-Ca B: 2023	175.1
10	Chlorides as Cl	mg/L	APHA 24th Edition; 4500-Cl B: 2023	909.7
11	Copper as Cu	mg/L	IS 3025 Part 42: 2024	BDL(DL:0.05)
12	Fluoride as F-	mg/L	APHA 24th Edition; 4500- F D: 2023	0.89
13	Free residual chlorine	mg/L	APHA 24th Edition 4500-ClO2 B	BDL (DL:0.5)
14	Iron as Fe	mg/L	APHA 24th Edition; 3500-Fe B: 2023	0.17
15	Magnesium as Mg	mg/L	APHA 24th Edition; 3500-Mg B: 2023	86.7
16	Manganese as Mn	mg/L	APHA 24th Edition; 3111 B: 2023	2.815
17	Nitrate as NO_3	mg/L	APHA 24th Edition 4500-NO^3 B : 2023	3.16
18	Sulphate as SO_4	mg/L	APHA 24th Edition 4500-SO_4 E : 2023	220.3
19	Total alkalinity as $CaCO_3$	mg/L	APHA 24th Edition; 2320 B: 2023	493.5
20	Total hardness as $CaCO_3$	mg/L	APHA 24th Edition; 2340 C: 2023	793.5

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

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TC-11749

Sustainability

URL No:TC-1174925000000765F

Test Report No: RSIWMSL /CON/25-26/09/0435

Sr.No	Parameters	Unit	Method	Result
21	Zinc as Zn	mg/L	APHA 24th Edition; 3111 B: 2023	BDL(DL:0.1)
22	Cadmium as Cd	mg/L	APHA 24th Edition; 3111 B: 2023	BDL(DL:0.01)
23	Lead as Pb	mg/L	APHA 24th Edition; 3111 B: 2023	0.051
24	Mercury as Hg	mg/L	APHA 24th Edition; 3112 B: 2023	BDL(DL:0.001)
25	Total arsenic as As	mg/L	APHA 24th Edition; 3114 B: 2023	0.055
26	Total chromium as Cr	mg/L	APHA 24th Edition; 3111 B: 2023	BDL(DL:0.05)
27	Sodium as Na	mg/L	APHA 24th Edition;3500-Na B:2023	446
28	Dissolved Oxygen	mg/L	APHA 24 th Edition 4500- O B C: 2023	6.8
29	Bio Chemical oxygen Demand (3 days @27°C)	mg/L	IS 3025 Part 44: 2023	7.0
30	Chemical Oxygen Demand	mg/L	APHA 24 th Edition 5220 B	58.2
Microbiology				
31	Total coliforms	MPN/100ml	IS 1622:1981	<2
32	Fecal coliforms	MPN/100ml	IS 1622:1981	<2

Note: BDL – Below Detection Limit, DL – Detection Limit, MPN – Most Probable Number
<2 MPN Can be considered as absent

Remarks:

- **Reports pertained only to the collected sample**
- **Test reports shall not be reproduced expect in full, without written approval of the laboratory.**

Verified by
(S.Shanmugam)

Authorized Signatory - Biological
(S.Rajesh)

Authorized Signatory - Chemical
(S.Subba Reddy)

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Sustainability

TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0435

Discipline: Chemical
Group: Water

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/W/0435**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Bore well water**
Sample received Date	**:30.09.2025**	Sample Location	**: Test Bore - 1**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result
1	Turbidity	NTU	APHA 24 th Edition 2130 B : 2023	3.1
2	Salinity	-	APHA 24 th Edition 2520 B : 2023	1.64
3	Silver	mg/L	APHA 24th Edition; 3111 B: 2023	BDL(DL:0.1)

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

----------**End of the Report**----------

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
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TC-11749

Sustainability

TEST REPORT

URL No:TC-1174925000000766F
Test Report No: RSIWMSL /CON/25-26/09/0436

Discipline: Chemical
Group: Water

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant) Manali Express Highway, Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/W/0436**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Bore well water**
Sample received Date	**:30.09.2025**	Sample Location	**: Test Bore - 2**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result
1	Colour	Hazen	APHA 24th Edition; 2121B: 2023	10
2	Odour	-	IS 3025:Part 5 : 2018	Agreeable
3	Temperature	°C	APHA 24th Edition 2550 B : 2023	25.6
4	pH Value @ 25°C	-	APHA 24th Edition 4500 H^+ B : 2023	7.28
5	Taste	-	APHA 24th Edition 2160 C : 2023	Disagreeable
6	Conductivity @ 25°C	µS/cm	APHA 24th Edition; 2510 B: 2023	1267
7	Total Dissolved Solids @ 180°C	mg/L	APHA 24th Edition; 2540 C: 2023	760
8	Aluminium as Al	mg/L	IS 3025 Part 55 : 2003	1.508
9	Calcium as Ca	mg/L	APHA 24th Edition; 3500-Ca B: 2023	96.8
10	Chlorides as Cl	mg/L	APHA 24th Edition; 4500-Cl B: 2023	274.9
11	Copper as Cu	mg/L	IS 3025 Part 42:2024	0.015
12	Fluoride as F-	mg/L	APHA 24th Edition; 4500- F D: 2023	0.95
13	Free residual chlorine	mg/L	APHA 24th Edition 4500-ClO2 B	BDL (DL:0.5)
14	Iron as Fe	mg/L	APHA 24th Edition; 3500-Fe B: 2023	BDL (DL:0.1)
15	Magnesium as Mg	mg/L	APHA 24th Edition; 3500-Mg B: 2023	22.4
16	Manganese as Mn	mg/L	APHA 24th Edition; 3111 B: 2023	0.806
17	Nitrate as NO_3	mg/L	APHA 24th Edition 4500-NO^3 B : 2023	2.71
18	Sulphate as SO_4	mg/L	APHA 24th Edition 4500-SO_4 E : 2023	52.2
19	Total alkalinity as $CaCO_3$	mg/L	APHA 24th Edition; 2320 B: 2023	270.3
20	Total hardness as $CaCO_3$	mg/L	APHA 24th Edition; 2340 C: 2023	333.5

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

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TC-11749
URL No:TC-1174925000000766F
Test Report No: RSIWMSL /CON/25-26/09/0436

Sr.No	Parameters	Unit	Method	Result
21	Zinc as Zn	mg/L	APHA 24th Edition; 3111 B: 2023	BDL(DL:0.1)
22	Cadmium as Cd	mg/L	APHA 24th Edition; 3111 B: 2023	BDL(DL:0.01)
23	Lead as Pb	mg/L	APHA 24th Edition; 3111 B: 2023	0.044
24	Mercury as Hg	mg/L	APHA 24th Edition; 3112 B: 2023	BDL(DL:0.001)
25	Total arsenic as As	mg/L	APHA 24th Edition; 3114 B: 2023	BDL(DL:0.002)
26	Total chromium as Cr	mg/L	APHA 24th Edition; 3111 B: 2023	BDL(DL:0.05)
27	Sodium as Na	mg/L	APHA 24th Edition;3500-Na B:2023	159
28	Dissolved Oxygen	mg/L	APHA 24th Edition 4500- O B C: 2023	6.9
29	Bio Chemical oxygen Demand (3 days @27°C)	mg/L	IS 3025 Part 44:2023	BDL(DL: 5.0)
30	Chemical Oxygen Demand	mg/L	APHA 24th Edition 5220 B : 2023	BDL(DL: 10.0)
Microbiology				
31	Total coliforms	MPN/100ml	IS 1622:1981	<2
32	Fecal coliforms	MPN/100ml	IS 1622:1981	<2

Note: BDL – Below Detection Limit, DL – Detection Limit, MPN – Most Probable Number
<2 MPN Can be considered as absent
Remarks:

- **Reports pertained only to the collected sample**
- **Test reports shall not be reproduced expect in full, without written approval of the laboratory.**

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Authorized Signatory - Biological
(S.Rajesh)

Authorized Signatory - Chemical
(S.Subba Reddy)

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Sustainability

TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0436

Discipline: Chemical
Group: Water

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/W/0436**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Bore well water**
Sample received Date	**:30.09.2025**	Sample Location	**: Test Bore - 2**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result
1	Turbidity	NTU	APHA 24 th Edition 2130 B : 2023	4.4
2	Salinity	-	APHA 24 th Edition 2520 B : 2023	0.50
3	Silver	mg/L	APHA 24th Edition; 3111 B: 2023	BDL(DL:0.1)

Verified by
(S.Shanmugam)

RE SUSTAINABILITY IWM SOLUTIONS LIMITED

Authorized Signatory - Chemical
(S.Subba Reddy)

----------**End of the Report**----------

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TC-11749

TEST REPORT

URL No:TC-1174925000000767F
Test Report No: RSIWMSL /CON/25-26/09/0437

Discipline: Chemical
Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/WW/0437**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Waste water**
Sample received Date	**:30.09.2025**	Sample Location	**: STP Inlet water**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result
1	Colour	Hazen	APHA 24th EDN 2120 B: 2023	25
2	Odour	-	IS 3025:Part 5 :2018	Disagreeable
3	Temperature	°C	APHA 24th Edition 2550 B:2023	25.8
4	pH Value @ 25°C	-	APHA 24th EDN 4500 H^+ B: 2023	6.98
5	Total Suspended solids	mg/L	APHA 24th EDN 2540 D: 2023	168
6	Particle size of suspended particle (shall pass through 850 microns IS Sieve)	-	RSIWMSL/LAB_SOP-029	Pass
7	Total Dissolved Solids	mg/L	APHA 24th EDN 2540,C: 2023	1794
8	Oil & grease	mg/L	APHA 24th EDN 5520 B: 2023	42.8
9	Ammonical Nitrogen as N	mg/L	APHA 24th Edition 4500-NH3 B & C	31.85
10	Chlorides as Cl	mg/L	APHA 24th EDN 4500 Cl^-,B: 2023	619.8
11	Copper as Cu	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.5)
12	Fluoride as F^-	mg/L	APHA 24th Edition 4500- F B,D:2023	1.24
13	Free residual chlorine	mg/L	APHA 24th Edition 4500-ClO2 B	BDL(DL:0.5)
14	Total Kjeldhal Nitrogen	mg/L	APHA 24th Edition 4500-Norg C	35.14
15	Free ammonia	mg/L	APHA 24th Edition 4500-NH3- F	1.24
16	Boron as B	mg/L	APHA 24th Edition 4500- B B:2023	BDL(DL:1.0)
17	Nickel as Ni	mg/L	APHA 24th Edition 3111 B : 2023	BDL(DL:0.2)
18	Sulphates as SO_4	mg/L	APHA 24th EDN 4500 $SO4^{-2}$,E : 2023	42.3
19	Percent sodium	%	RSIWMSL/LAB_SOP 019	68.4
20	Residual sodium carbonate	meq/L	RSIWMSL/LAB_SOP-057	5.49

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

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TC-11749

Sustainability

URL No:TC-1174925000000767F

Test Report No: RSIWMSL /CON/25-26/09/0437

S.No	Parameters	Unit	Method	Result
21	Zinc as Zn	mg/L	APHA 24th Edition 3111 B : 2023	BDL(DL:0.1)
22	Cadmium as Cd	mg/L	APHA 24th Edition 3111 B : 2023	BDL(DL:0.1)
23	Lead as Pb	mg/L	APHA 24th Edition 3111 B : 2023	0.065
24	Mercury as Hg	mg/L	APHA 24th Edition 3112 B:2023	BDL(DL:0.005)
25	Total arsenic as As	mg/L	APHA 24th Edition 3114 B:2023	0.017
26	Total chromium as Cr	mg/L	APHA 24th Edition 3111 B : 2023	BDL(DL:0.5)
27	Selenium as Se	mg/L	APHA 24th Edition 3114 C:2023	BDL(DL:0.005)
28	Hexavalent Chromium as Cr^{+6}	mg/L	APHA 24th Edition 3500-Cr B:2023	BDL(DL:0.05)
29	Bio Chemical oxygen Demand 3 days @27°C	mg/L	IS: 3025 (part 44): 2023	180.0
30	Chemical Oxygen Demand	mg/L	APHA 24th EDN 5220 B:2023	485.4
31	Total Cyanides as CN-	mg/L	APHA 24th Edition 4500-CN C:2023	BDL(DL:0.01)
32	Phenolic Compounds as C_6H_5OH	mg/L	APHA 24th Edition 5530 B & D:2023	BDL(DL:1.0)
33	Sulphide as S^{2-}	mg/L	APHA 24th Edition 4500-S^{-2} F:2023	BDL(DL:1.0)
34	Dissolved Phosphates as P	mg/L	APHA 24th Edition 4500-P B & C:2023	1.74
35	**Pesticides**			
	4,4 DDD	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	4,4 DDE	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	4,4DDT	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Aldrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Alpha-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Beta-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Delta-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Dieldrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Endosulfan I(Alpha)	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Endosulfan II(Beta)	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Endrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Endrin aldehyde	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Ethion	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Malathion	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Paration	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)

Note: BDL – Below Detection Limit, DL – Detection Limit

Remarks:

- **Reports pertained only to the collected sample**
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Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

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Sustainability

TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0437

Discipline: Chemical
Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/WW/0437**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Waste water**
Sample received Date	**:30.09.2025**	Sample Location	**: STP Inlet water**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result
1.	**Pesticides**			
	Alachlor	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)
	Atrazine	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)
	Butachlor	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)
	chlorpyriphos	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)
	2,4 dichlorophenoxy acetic acid	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)
	isoproturon	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)
	monocrotophos	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)
	phorate	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)
2.	**Radioactivity material**			
	Alpha Emitters	micro curie/ml	IS 41494 Part 2 : 2022	BDL(DL:1 X 10^{-7})
	Beta Emitters	micro curie/ml	IS 41494 Part 1 : 2022	BDL(DL: 1 X 10^{-6})

Note: BDL – Below Detection Limit, DL – Detection Limit

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

----------**End of the Report**----------

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
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TC-11749

TEST REPORT

Sustainability

URL No:TC-1174925000000768F
Test Report No: RSIWMSL /CON/25-26/09/0438

Discipline: Chemical
Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/WW/0438**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Waste water**
Sample received Date	**:30.09.2025**	Sample Location	**: STP Outlet**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result	TNPCB:2025 Limits
1	Colour	Hazen	APHA 24th Edition 2120 B:2023	15	-
2	Odour	-	IS 3025 :Part 5 : 2018	Agreeable	-
3	Temperature	°C	APHA 24th Edition 2550 B:2023	25.6	-
4	pH value @ 25°C	-	APHA 24th Edition 4500-H+ B:2023	8.13	6.5 – 9.0
5	Total Suspended solids	mg/L	APHA 24th EDN 2540 D: 2023	15.0	30
6	Particle size of suspended particle (shall pass through 850 microns IS Sieve)	-	RSIWMSL/LAB_SOP-029	Pass	-
7	Total Dissolved Solids	mg/L	APHA 24th Edition 2540 C:2023	1860	-
8	Oil & grease	mg/L	APHA 24th Edition 5520 B:2023	5.6	-
9	Ammonical Nitrogen as N	mg/L	APHA 24th Edition 4500 NH3 - B & C	25.66	-
10	Chlorides as Cl	mg/L	APHA 24th Edition 4500-Cl B:2023	689.8	-
11	Copper as Cu	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.5)	-
12	Fluoride as F	mg/L	APHA 24th Edition 4500- F B,D:2023	0.91	-
13	Free residual chlorine	mg/L	APHA 24th Edition 4500-ClO2 B	BDL(DL:0.5)	-
14	Total Kjeldhal Nitrogen	mg/L	APHA 24th Edition 4500-Norg C	28.29	-
15	Free ammonia	mg/L	APHA 24th Edition 4500-NH3- F	0.78	-
16	Boron as B	mg/L	APHA 24th Edition 4500- B B:2023	BDL(DL:1.0)	-
17	Nickel as Ni	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.2)	-
18	Sulphates as SO_4	mg/L	APHA 24th Edition 4500-SO4 E:2023	131.3	-
19	Percent sodium	%	RSIWMSL/LAB_SOP 019	64.3	-
20	Residual sodium carbonate	meq/L	RSIWMSL/LAB_SOP-057	5.49	-

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

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TC-11749

URL No:TC-1174925000000768F

Test Report No: RSIWMSL /CON/25-26/09/0438

S.No	Parameters	Unit	Method	Result	TNPCB:2025 Limits
21	Zinc as Zn	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.1)	-
22	Cadmium as Cd	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.1)	-
23	Lead as Pb	mg/L	APHA 24th Edition 3111 B:2023	0.068	-
24	Mercury as Hg	mg/L	APHA 24th Edition 3112 B:2023	BDL(DL:0.005)	-
25	Total arsenic as As	mg/L	APHA 24th Edition 3114 B:2023	0.015	-
26	Total chromium as Cr	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.05)	-
27	Selenium as Se	mg/L	APHA 24th Edition 3114 C:2023	BDL(DL:0.005)	-
28	Hexavalent Chromium as Cr^{+6}	mg/L	APHA 24th Edition 3500-Cr B:2023	BDL(DL:0.05)	-
29	Bio Chemical oxygen Demand 3 days @27°C	mg/L	IS 3025 (Part 44) : 2023	8.6	20
30	Chemical Oxygen Demand	mg/L	APHA 24th Edition 5220 B:2023	45.6	-
31	Total Cyanides as CN-	mg/L	APHA 24th Edition 4500-CN C:2023	BDL(DL:0.01)	-
32	Phenolic Compounds as $_6H_5OH$	mg/L	APHA 24th Edition 5530 B & D:2023	BDL(DL:1.0)	-
33	Sulphide as S^{2-}	mg/L	APHA 24th Edition 4500-S^{-2} F:2023	BDL(DL:1.0)	-
34	Dissolved Phosphates as P	mg/L	APHA 24th Edition 4500-P B & C:2023	1.58	-
35	**Pesticides**				-
	4,4 DDD	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	4,4 DDE	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	4,4DDT	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Aldrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Alpha-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Beta-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Delta-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Dieldrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Endosulfan I(Alpha)	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Endosulfan II(Beta)	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Endrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Endrin aldehyde	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Ethion	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Malathion	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Parathion	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-

Note: BDL – Below Detection Limit, DL – Detection Limit

Remarks:

- **Reports pertained only to the collected sample**
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Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

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TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0438

Discipline: Chemical
Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25- 6/09/WW/0438**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Waste water**
Sample received Date	**:30.09.2025**	Sample Location	**: STP Outlet**
Sub-Contracting of Tests	**Radioactivity**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result	TNPCB:2025 Limits
1.	**Pesticides**				-
	Alachlor	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)	-
	Atrazine	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)	-
	Butachlor	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)	-
	chlorpyriphos	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)	-
	2,4 dichlorophenoxy acetic acid	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)	-
	isoproturon	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)	-
	monocrotophos	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)	-
	phorate	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)	-
2.	**Radioactivity material**				
	Alpha Emitters	micro curie/ml	IS 41494 Part 2 : 2022	BDL(DL:1 X 10^{-7})	-
	Beta Emitters	micro curie/ml	IS 41494 Part 1 : 2022	BDL(DL: 1 X 10^{-6})	-

Note: BDL – Below Detection Limit, DL – Detection Limit

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

----------End of the Report----------

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TC-11749

Sustainability

TEST REPORT

URL No:TC-1174925000000769F
Test Report No: RSIWMSL /CON/25-26/09/0439

Discipline: Chemical
Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/WW/0439**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Waste water**
Sample received Date	**:30.09.2025**	Sample Location	**: ETP Inlet water**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result
1	Colour	Hazen	APHA 24th EDN 2120 B: 2023	10
2	Odour	-	IS 3025:Part 5 :2018	Disagreeable
3	Temperature	°C	APHA 24th Edition 2550 B:2023	25.8
4	pH Value @ 25°C	-	APHA 24th EDN 4500 H^+ B: 2023	11.94
5	Total Suspended solids	mg/L	APHA 24th EDN 2540 D: 2023	34
6	Particle size of suspended particle (shall pass through 850 microns IS Sieve)	-	RSIWMSL/LAB_SOP-029	Pass
7	Total Dissolved Solids	mg/L	APHA 24th EDN 2540,C: 2023	19560
8	Oil & grease	mg/L	APHA 24th EDN 5520 B: 2023	BDL(DL:5.0)
9	Ammonical Nitrogen as N	mg/L	APHA 24th Edition 4500-NH3 B & C	9.61
10	Chlorides as Cl	mg/L	APHA 24th EDN 4500 Cl^-,B: 2023	11996
11	Copper as Cu	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.5)
12	Fluoride as F^-	mg/L	APHA 24th Edition 4500- F B,D:2023	1.15
13	Free residual chlorine	mg/L	APHA 24th Edition 4500-ClO2 B	BDL(DL:0.5)
14	Total Kjeldhal Nitrogen	mg/L	APHA 24th Edition 4500-Norg C	13.82
15	Free ammonia	mg/L	APHA 24th Edition 4500-NH3- F	1.24
16	Boron as B	mg/L	APHA 24th Edition 4500- B B:2023	BDL(DL:1.0)
17	Nickel as Ni	mg/L	APHA 24th Edition 3111 B : 2023	BDL(DL:0.2)
18	Sulphates as SO_4	mg/L	APHA 24th EDN 4500 $SO4^{-2}$,E : 2023	54.1
19	Percent sodium	%	RSIWMSL/LAB_SOP 019	7.04
20	Residual sodium carbonate	meq/L	RSIWMSL/LAB_SOP-057	BDL(DL:1.0)

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

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TC-11749

Sustainability

URL No:TC-1174925000000769F

Test Report No: RSIWMSL /CON/25-26/09/0439

S.No	Parameters	Unit	Method	Result
21	Zinc as Zn	mg/L	APHA 24th Edition 3111 B : 2023	BDL(DL:0.1)
22	Cadmium as Cd	mg/L	APHA 24th Edition 3111 B : 2023	BDL(DL:0.1)
23	Lead as Pb	mg/L	APHA 24th Edition 3111 B : 2023	BDL(DL:0.05)
24	Mercury as Hg	mg/L	APHA 24th Edition 3112 B:2023	BDL(DL:0.005)
25	Total arsenic as As	mg/L	APHA 24th Edition 3114 B:2023	0.012
26	Total chromium as Cr	mg/L	APHA 24th Edition 3111 B : 2023	BDL(DL:0.5)
27	Selenium as Se	mg/L	APHA 24th Edition 3114 C:2023	BDL(DL:0.005)
28	Hexavalent Chromium as Cr^{+6}	mg/L	APHA 24th Edition 3500-Cr B:2023	BDL(DL:0.05)
29	Bio Chemical oxygen Demand 3 days @27°C	mg/L	IS: 3025 (part 44): 2023	95.0
30	Chemical Oxygen Demand	mg/L	APHA 24th EDN 5220 B:2023	582.5
31	Total Cyanides as CN-	mg/L	APHA 24th Edition 4500-CN C:2023	BDL(DL:0.01)
32	Phenolic Compounds as C_6H_5OH	mg/L	APHA 24th Edition 5530 B & D:2023	BDL(DL:1.0)
33	Sulphide as S^{2-}	mg/L	APHA 24th Edition 4500-S^{-2} F:2023	BDL(DL:1.0)
34	Dissolved Phosphates as P	mg/L	APHA 24th Edition 4500-P B & C:2023	BDL(DL:0.1)
35	**Pesticides**			
	4,4 DDD	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	4,4 DDE	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	4,4DDT	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Aldrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Alpha-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Beta-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Delta-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Dieldrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Endosulfan I(Alpha)	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Endosulfan II(Beta)	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Endrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Endrin aldehyde	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Ethion	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Malathion	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)
	Paration	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)

Note: BDL – Below Detection Limit, DL – Detection Limit

Remarks:

- **Reports pertained only to the collected sample**
- **Test reports shall not be reproduced expect in full, without written approval of the laboratory.**

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Sustainability

TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0439

Discipline: Chemical
Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/WW/0439**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Waste water**
Sample received Date	**:30.09.2025**	Sample Location	**: ETP Inlet water**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result
1.	**Pesticides**			
	Alachlor	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)
	Atrazine	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)
	Butachlor	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)
	chlorpyriphos	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)
	2,4 dichlorophenoxy acetic acid	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)
	isoproturon	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)
	monocrotophos	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)
	phorate	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)
2.	**Radioactivity material**			
	Alpha Emitters	micro curie/ml	IS 41494 Part 2 : 2022	BDL(DL:1 X 10^{-7})
	Beta Emitters	micro curie/ml	IS 41494 Part 1 : 2022	BDL(DL: 1 X 10^{-6})

Note: BDL – Below Detection Limit, DL – Detection Limit

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

----------**End of the Report**----------

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
(A Division of Re Sustainability Limited)
Plot No: 5-15, 28-33, SIPCOT Industrial Complex, Gummidipoondi-601201.
Phone: +91 9677122694, E-mail: laboratorytnwml@resustainability.com

TC-11749

TEST REPORT

Sustainability

URL No:TC-1174925000000770F
Test Report No: RSIWMSL /CON/25-26/09/0440

Discipline: Chemical
Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/WW/0440**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Waste water**
Sample received Date	**:30.09.2025**	Sample Location	**: ETP Outlet**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result	TNPCB Limits
1	Colour	Hazen	APHA 24th Edition 2120 B:2023	10	-
2	Odour	-	IS 3025 :Part 5 : 2018	Agreeable	-
3	Temperature	°C	APHA 24th Edition 2550 B:2023	25.8	40°C
4	pH Value @ 25°C	-	APHA 24th Edition 4500-H+ B:2023	7.35	5.5 – 9.0
5	Total Suspended solids	mg/L	APHA 24th EDN 2540 D: 2023	31.2	100
6	Particle size of suspended particle (shall pass through 850 microns IS Sieve)	-	RSIWMSL/LAB_SOP-029	Pass	Shall pass through 850 microns IS Sieve
7	Total Dissolved Solids	mg/L	APHA 24th Edition 2540 C:2023	22800	-
8	Oil & grease	mg/L	APHA 24th Edition 5520 B:2023	BDL(DL:5.0)	10
9	Ammonical Nitrogen as N	mg/L	APHA 24th Edition 4500 NH3 - B & C	7.50	50
10	Chlorides as Cl	mg/L	APHA 24th Edition 4500-Cl B:2023	13995	-
11	Copper as Cu	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.5)	3.0
12	Fluoride as F	mg/L	APHA 24th Edition 4500- F B,D:2023	0.83	15
13	Free residual chlorine	mg/L	APHA 24th Edition 4500-ClO2 B	BDL(DL:0.5)	1.0
14	Total Kjeldhal Nitrogen	mg/L	APHA 24th Edition 4500-Norg C	11.32	100
15	Free ammonia	mg/L	APHA 24th Edition 4500-NH3- F	1.01	5
16	Boron as B	mg/L	APHA 24th Edition 4500- B B:2023	BDL(DL:1.0)	2.0
17	Nickel as Ni	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.2)	3.0
18	Sulphates as SO_4	mg/L	APHA 24th Edition 4500-SO4 E:2023	110.5	1000
19	Percent sodium	%	RSIWMSL/LAB_SOP 019	12.04	-
20	Residual sodium carbonate	meq/L	RSIWMSL/LAB_SOP-057	BDL(DL:1.0)	-

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

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TC-11749

Sustainability

URL No:TC-1174925000000770F

Test Report No: RSIWMSL /CON/25-26/09/0440

S.No	Parameters	Unit	Method	Result	TNPCB Limits
21	Zinc as Zn	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.1)	1.0
22	Cadmium as Cd	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.1)	2.0
23	Lead as Pb	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.05)	0.1
24	Mercury as Hg	mg/L	APHA 24th Edition 3112 B:2023	BDL(DL:0.005)	0.01
25	Total arsenic as As	mg/L	APHA 24th Edition 3114 B:2023	0.010	0.2
26	Total chromium as Cr	mg/L	APHA 24th Edition 3111 B:2023	BDL(DL:0.05)	2.0
27	Selenium as Se	mg/L	APHA 24th Edition 3114 C:2023	BDL(DL:0.005)	0.05
28	Hexavalent Chromium as Cr^{+6}	mg/L	APHA 24th Edition 3500-Cr B:2023	BDL(DL:0.05)	0.1
29	Bio Chemical oxygen Demand 3 days @27°C	mg/L	IS 3025 (Part 44) : 2023	20	100
30	Chemical Oxygen Demand	mg/L	APHA 24th Edition 5220 B:2023	126	250
31	Total Cyanides as CN-	mg/L	APHA 24th Edition 4500-CN C:2023	BDL(DL:0.01)	0.2
32	Phenolic Compounds as C_6H_5OH	mg/L	APHA 24th Edition 5530 B & D:2023	BDL(DL:1.0)	1.0
33	Sulphide as S^{2-}	mg/L	APHA 24th Edition 4500-S^{-2} F:2023	BDL(DL:1.0)	2.0
34	Dissolved Phosphates as P	mg/L	APHA 24th Edition 4500-P B & C:2023	BDL(DL:0.1)	5.0
35	**Pesticides**				Absent
	4,4 DDD	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	4,4 DDE	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	4,4DDT	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Aldrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Alpha-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Beta-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Delta-BHC	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Dieldrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Endosulfan I(Alpha)	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Endosulfan II(Beta)	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Endrin	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Endrin aldehyde	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Ethion	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Malathion	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-
	Paration	µg/L	USEPA 3510 C & 8270 C	BDL(DL:0.01)	-

Note: BDL – Below Detection Limit, DL – Detection Limit

Remarks:

- **Reports pertained only to the collected sample**
- **Test reports shall not be reproduced expect in full, without written approval of the laboratory.**

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
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Phone: +91 9677122694, E-mail: laboratorytnwml@resustainability.com

TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0440

Discipline: Chemical
Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, (ECH- PO Plant)** **Manali Express Highway,** **Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25- 6/09/WW/0440**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Waste water**
Sample received Date	**:30.09.2025**	Sample Location	**: ETP Outlet**
Sub-Contracting of Tests	**Radioactivity**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result	TNPCB Limits
1.	**Pesticides**				**Absent**
	Alachlor	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)	-
	Atrazine	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)	-
	Butachlor	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)	-
	chlorpyriphos	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)	-
	2,4 dichlorophenoxy acetic acid	µg/L	RSIWMSL/LAB_SOP-032	BDL(DL:0.01)	-
	isoproturon	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)	-
	monocrotophos	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)	-
	phorate	µg/L	RSIWMSL/LAB_SOP-033	BDL(DL:0.01)	-
2.	**Radioactivity material**				
	Alpha Emitters	micro curie/ml	IS 41494 Part 2 : 2022	BDL(DL:1 X 10^{-7})	1 X 10^{-7}
	Beta Emitters	micro curie/ml	IS 41494 Part 1 : 2022	BDL(DL: 1 X 10^{-6})	1 X 10^{-6}

Note: BDL – Below Detection Limit, DL – Detection Limit

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

----------**End of the Report**----------

RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY
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Plot No: 5-15, 28-33, SIPCOT Industrial Complex, Gummidipoondi-601201.
Phone: +91 9677122694, E-mail: laboratorytnwml@resustainability.com

Sustainability

TEST REPORT

TC-11749 URL No:TC-1174925000000771F

Test Report No: RSIWMSL /CON/25-26/09/0441

Discipline: Chemical
Group : Water

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, Manali Express Highway, Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/W/0441**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Drinking water**
Sample received Date	**:30.09.2025**	Sample Location	**: Drinking water (Canteen)**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

TEST RESULT

Sr.No	Parameters	Unit	Method	Result	IS 10500 : 2012 Drinking Water Specification	
					Acceptable Limit	Permissible Limit
1	Colour	Hazen	IS 3025 : Part 4 : 2021	10	5	15
2	Odour	-	IS 3025:Part 5 : 2018	Agreeable	Agreeable	Agreeable
3	Temperature	°C	APHA 24th Edition 2550 B :2023	25.1	-	-
4	pH Value @ 25°C	-	IS 3025 :Part 11 : 2022	6.95	6.5-8.5	No relaxation
5	Taste	-	IS 3025 :Part 7 : 2017	Agreeable	Agreeable	Agreeable
6	Conductivity @ 25°C	µS/cm	APHA 24th Edition; 2510 B: 2023	125	-	-
7	Total Dissolved Solids	mg/L	IS 3025 : Part 16 :2023	75	500	2000
8	Aluminium as Al	mg/L	IS 3025 Part 55 : 2003	0.01	0.03	0.2
9	Calcium as Ca	mg/L	IS 3025 : Part 40 : 2024	BDL(DL:5.0)	75	200
10	Chlorides as Cl	mg/L	IS 3025 : Part 32 : 1988	27.5	250	1000
11	Copper as Cu	mg/L	IS 3025 Part 42:2024	BDL(DL:0.05)	0.05	1.5
12	Fluoride as F-	mg/L	IS 3025 : Part 60 : Sec 1 :2023	BDL(DL:0.1)	1.0	1.5
13	Free residual chlorine	mg/L	APHA 24th Edition 4500-ClO2 B	BDL(DL:0.2)	0.2	1
14	Iron as Fe	mg/L	IS 3025 Part 53 : 2024	BDL(DL:0.1)	0.3	No relaxation
15	Magnesium as Mg	mg/L	IS 3025 : Part 46 : 2023	BDL(DL:5.0)	30	100
16	Manganese as Mn	mg/L	IS 3025 Part 59:2023	BDL(DL:0.05)	0.1	0.3

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

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TC-11749

URL No:TC-1174925000000771F

Test Report No: RSIWMSL /CON/25-26/09/0441

Sr.No	Parameters	Unit	Method	Result	IS 10500 : 2012 Drinking Water Specification	
					Acceptable Limit	Acceptable Limit
17	Nitrate as NO_3	mg/L	IS 3025 Part 34 (Sec 1):2023	1.23	45	No relaxation
18	Sulphate as SO_4	mg/L	IS 3025 : Part 24 : Sec 1 :2022	27.5	200	400
19	Total alkalinity as $CaCO_3$	mg/L	IS 3025 : Part 23 : 2023	21.2	200	600
20	Total hardness as $CaCO_3$	mg/L	IS 3025 : Part 21 : 2009	12.7	200	600
21	Zinc as Zn	mg/L	IS 3025 Part 49 : 2024	BDL(DL:0.1)	5	15
22	Cadmium as Cd	mg/L	IS 3025 Part 41 : 2023	BDL(DL:0.001)	0.003	No relaxation
23	Lead as Pb	mg/L	IS 3025 Part 47:2024	BDL(DL:0.01)	0.01	No relaxation
24	Mercury as Hg	mg/L	IS 3025 Part 48 :1994	BDL(DL:0.001)	0.001	No relaxation
25	Total arsenic as As	mg/L	IS 3025 Part 37: 2022	BDL(DL:0.002)	0.01	0.05
26	Total chromium as Cr	mg/L	IS 3025 Part 52: 2003	BDL(DL:0.05)	0.05	No relaxation
27	Sodium as Na	mg/L	APHA 24 th Edition 3500-Na B	23	-	-
28	Dissolved Oxygen	mg/L	APHA 24 th Edition 4500- O B C	7.1	-	-
29	Bio Chemical oxygen Demand 3 days @27°C	mg/L	IS 3025 Part 44:2023	BDL(DL:5.0)	-	-
30	Chemical Oxygen Demand	mg/L	APHA 24 th Edition 5220 B	BDL(DL:10.0)	-	-
Microbiology						
31	Total coliforms	Per 100ml	IS 15185:2016	Absent	Shall not be detectable in any 100ml sample	
32	Escherichia coli	Per 100ml	IS 15185:2016	Absent		

Note: BDL – Below Detection Limit, DL – Detection Limit

Remarks:

- **Reports pertained only to the collected sample**
- **Test reports shall not be reproduced expect in full, without written approval of the laboratory.**

Verified by
(S.Shanmugam)

Authorized Signatory - Biological
(S.Rajesh)

Authorized Signatory - Chemical
(S.Subba Reddy)

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Sustainability

TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0441

Discipline: Chemical
Group: Water

NAME AND ADDRESS OF THE CLIENT	**M/S. Tamilnadu Petro Products Ltd, Manali Express Highway, Manali, Chennai – 600 068.**

Report Date	**:10.10.2025**	Sample Condition	**: Sample received in Plastic Can-5 Ltr**
Analysis Completion date	**:10.10.2025**	Sampling Procedure	**: RSIWMSL/LAB_SOP-001**
Analysis Starting Date	**:30.09.2025**	Sample registration no	**: RSIWMSL /25-26/09/W/0441**
Sampling Date	**:29.09.2025**	Sample description/Code	**: Drinking water**
Sample received Date	**:30.09.2025**	Sample Location	**: Drinking water (Canteen)**
Sub-Contracting of Tests	**: NA**	Sample Collected by	**: Re Sustainability IWM Solutions Ltd**

Sr.No	Parameters	Unit	Method	Result	IS 10500 : 2012 Drinking Water Specification	
					Permissible Limit	Permissible Limit
1	Turbidity	NTU	APHA 24th Edition 2130 B : 2023	0.5	1.0	5.0
2	Salinity	-	APHA 24th Edition 2520 B : 2023	BDL(DL:0.1)	-	-
3	Silver	mg/L	APHA 24th Edition; 3111 B: 2023	BDL(DL:0.1)	0.1	No relaxation

Note: BDL – Below Detection Limit, DL – Detection Limit

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

----------**End of the Report**----------

CORPORATE SOCIAL RESPONSIBILITY

Primary Health Care Centre is provided at Sadayankuppam Village, Kannampalayam & Seemavaram, Manali by AM Foundation on behalf of **Tamilnadu Petroproducts Limited** under its CSR project and Inaugurated.


AM Primary Health Care Centre


AM Foundation
Mobile


பெருநகர சென்னை மாநகராட்சி
சென்னை நடுநிலைப் பள்ளி