

Tamilnadu Petroproducts Limited

Ref: TPL – LAB/ 2026/EC Comp/04

20th May- 2026.

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 – LAB Plant – Environmental Clearance (EC) – Six Monthly Compliance Report – OCT 2025 to MAR 2026- reg.

Ref: RefNo: J-11011/469/2021-IA-II(I) dated 28.11.2022

This has reference to the Environmental Clearance (EC) obtained from MoEF&CC, New Delhi for Expansion of Linear Alkyl Benzene (LAB) production from 1,20,000 TPA to 1,45,000 TPA within the existing plant at Manali Industrial Area, Chennai, Tamil Nadu

We herewith attach the EC compliance status report for the period from October 2025 to March 2026 for your kind reference.

Thanking you,

Yours faithfully,
For Tamilnadu Petroproducts Limited

V.S. Prakash Kumar
GM – Services



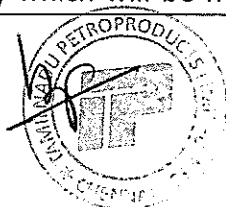
Regd. Office & Factory :
Manali Express Highway, Manali, Chennai - 600 068, India.
Tel. : (0091) - 44 - 25945500 to 09 Website : www.tnpetro.com
CIN : L23200TN1984PLC010931
TPL GSTIN : 33AAACT1295M1Z6

Environmental Clearance Compliance Status Report
For the period from OCT 2025 to MAR 2026

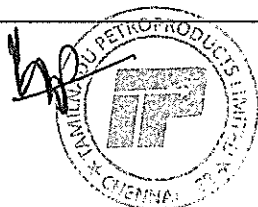
Ref No: J-11011/469/2021-IA-II(I) dated 28.11.2022

(A) Specific Condition

S.No	Condition	Compliance
1	EC will be subject to the decision of Hon'ble NGT (SZ). The project proponent shall abide by all orders and judicial pronouncements made from time to time in the case filed in Hon'ble NGT.	Noted. Shall be complied.
2	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Complied All the environmental protection measures and safeguards proposed in the documents submitted to the Ministry have been complied. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures are being implemented.
3	NOC from the Central Ground Water Authority (CGWA)/ Concerned Local authority shall be obtained before start of the construction of plant and drawing of the ground water for the project activities, State Pollution Control Board / Pollution Control Committees shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.	Complied No ground water withdrawal for the existing & proposed expansion, hence NOC from the Central Ground Water Authority (CGWA)/ Concerned Local authority is not envisaged. Tertiary Treatment Reverse Osmosis (TTRO water) from CMWSSB is being used for the existing operation and same will be using for the expansion project.
4	As proposed, 2 Nos (1 No of 3MW & 1 No of 6 MW) of the above HFO based DG sets shall be replaced with 2 Nos of 7 MW each LNG based Gas Engines during this Financial year 2022-23. As committed, PP shall replace the remaining 1 No of HFO based 6 MW DG set with a Gas Engine within 1 year from the date of issue of EC.	Being complied As committed, 2 Nos of HFO based DG sets (1 X 3MW & 1 X 6.6 MW) have been replaced with 2 Nos of 7 MW LNG based Gas Engines. Remaining 1 No of HFO based DG set (1X6.6MW), which is standby DG set will be removed or replaced with a Gas Engine.
5	Total freshwater requirement is 1000 m ³ /day which will be met from TTRO supply	Complied

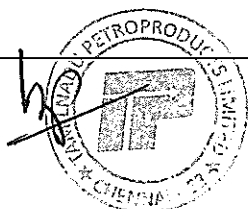


	<p>from CMWSSB. Necessary permission in this regard shall be obtained from the concerned regulatory authority. The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises.</p>	<p>Fresh water requirement of 1000 m³ /day will be met from TTRO supply from CMWSSB.</p> <p>Agreement is executed with CMWSSB, Effluent is treated in the ETP & subsequently in a RO Plant.</p> <p>RO permeate is reused in cooling tower as make up water and RO Reject is reused in TPL - ECH PO Plant process.</p> <p>No waste or treated water is discharged outside the premises.</p>
6	<p>PP shall ensure that effluent shall be treated through existing Effluent Treatment Plant of capacity 300 m³/day. Domestic wastewater is being/will be treated in existing STP of Capacity 160 KLD. The plant is being/will be based on Zero Liquid discharge system and hence treated effluent water / will not be discharged outside the factory premises.</p>	<p>Complied</p> <p>Effluent is treated through existing Effluent Treatment Plant and subsequently in RO Plant of capacity 300 m³/day.</p> <ul style="list-style-type: none"> • RO permeate is reused in cooling tower as make up water and RO Reject is reused in TPL - ECH PO Plant process. • Domestic wastewater is treated in existing STP of Capacity 160 KLD • Treated sewage is utilised for green belt development inside the unit premises. <p>ZLDS is being achieved.</p>
7	<p>3D risk study shall be done including consideration of vertical components and submit to IRO, MOEFCC within 6 months.</p>	<p>Complied</p> <p>3D risk study including consideration of vertical components was conducted through accredited consultant M/s. Efficaz Consulting Services, Chennai. and report submitted to IRO, MOEF&CC.</p>
8	<p>Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme.</p>	<p>Complied.</p> <p>Comprehensive water audit is being conducted annually, and report is being submitted to the Regional Office of MOEF&CC.</p> <p>Water Audit report is attached as Annexure-01</p>
9	<p>Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.</p>	<p>Complied</p> <p>Dedicated storm water drains are provided to avoid Process effluent/any wastewater mixing with storm water. Storm water drain is passed through a guard pond & reused by processing through RO plant.</p>

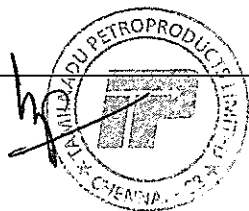


10	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	Complied Hazardous chemicals are stored in dedicated tanks located in tank farms. Necessary safety measures are provided in the tank farm.
11	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.	Complied Hazardous wastes are being disposed as per the authorisation issued by TNPCB. RLNG is used as fuel in boiler hence no generation of ash.
12	Regular VOC monitoring shall be done at vulnerable points.	Complied LDAR survey (VOC Monitoring) is being carried out at vulnerable points periodically. Latest LDAR survey conducted in March'25
13	The oily sludge shall be subjected to melting point for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	Complied Oil sludge is being disposed to authorised TSDF for incineration as per the Hazardous Waste Authorisation issued by TNPCB.
14	Oil catchers / oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	Complied Oil traps are provided in rain/ storm water drainage system inside the factory premises.
15	The company shall undertake waste minimization measures as below: a) Metering and control of quantities of active ingredients to minimize waste. b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c) Use of automated filling to minimize spillage. d) Use of Close Feed system into batch reactors. e) Venting equipment through vapour recovery system.	Complied a) Flow meters are provided to monitor and control of raw material consumption and to minimise waste. b) Off gas and Slop oil is reused as fuel in heaters. c) Automated filling system with magnetic flow meter is provided for product despatch to avoid spillage. d) All Raw material & products are handled in pipelines. e) Off gas generated are routed through Pilot Gas Balance Drum and reused as fuel in heaters.

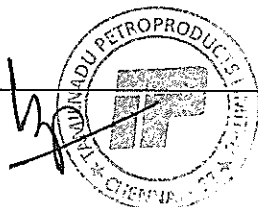
	<p>f) Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation.</p>	<p>f) High pressure hoses are being used for equipment cleaning etc., to reduce wastewater generation.</p>																
<p>16</p>	<p>The green belt of 5-10 m width shall be developed in 8.76 Ha i.e. nearly 54.12% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Development of Green belt in the 18 Acre land area (at a distance of 0.36 km, NE from the project site) shall be done to compensate for the deficit Green Belt (30.875%) for LAB Project within 1 year. Status of development of greenbelt in this area shall be informed to the IRO, MOEFCC regularly.</p>	<p>Being complied</p> <ul style="list-style-type: none"> • We have developed 3.65 Acres (9.125 %) of green belt area within the premises (No. of Trees – 3800). • As per the EC condition, we have developed a green belt of 18 Acre (45 %) outside the premises at a distance of 0.36 km, NE from LAB site to achieve 40 % green belt coverage. (No. of tree sapling proposed – 18000). <table border="1" data-bbox="890 779 1449 1137"> <thead> <tr> <th>Green Belt Detail</th> <th>Area Acre</th> <th>%</th> <th>Trees</th> </tr> </thead> <tbody> <tr> <td>Existing GB (inside)</td> <td>3.65</td> <td>9.125</td> <td>3800</td> </tr> <tr> <td>GB is under progress near the plant.</td> <td>18.00</td> <td>45.000</td> <td>18000</td> </tr> <tr> <td>Total Green Belt</td> <td>21.65</td> <td>54.125</td> <td>21800</td> </tr> </tbody> </table> <p>Apart from the above green belt developed, the following green belt areas have been developed outside of the plant.</p> <ul style="list-style-type: none"> • Tree & flower plantation has been developed on the banks of Korattur lake and fencing provided under Greater Chennai Corporation Greenery of Chennai city scheme. <p>1400 Nos of avenue plantation developed in highway median nearby plant.</p> <ul style="list-style-type: none"> • We have developed a green belt area of around 15.14 acres outside the plant premises at Morai Village, Pandeswaram Village and Grandlyon village, Thiruvallur District during 2022 – 2023. (No. of tree sapling planted– 15000). <p>Status of development of greenbelt is</p>	Green Belt Detail	Area Acre	%	Trees	Existing GB (inside)	3.65	9.125	3800	GB is under progress near the plant.	18.00	45.000	18000	Total Green Belt	21.65	54.125	21800
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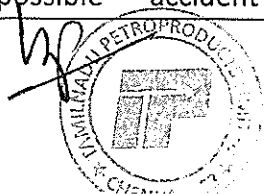
		attached as Annexure-02
17	As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent of Rs. 3.6 Crores to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centres / support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar streetlights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed.	Being complied As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018, the Corporate Environmental Responsibility (CER) allocation for the proposed project is estimated as INR 3.6 Crores. This amount is being dedicated to addressing socio-economic and environmental issues in the surrounding communities, with a focus on sustainable development and long-term community welfare. Action plan is prepared & funds have been committed to adhere as per the given plan. CER spent details is attached as Annexure-03
18	The project proponent shall ensure 70% of the employment to the local people, as per the applicable law. The project proponent shall set up a skill development centre/provide skill development training to village people.	Being Complied Preference has been given to local people for employment as per the rules & regulation of company and will be ensured. Skill development centre will be provided, and skill development training will be imparted to village people.
19	A separate Environmental Management Cell (having qualified person with Environmental Science / Environmental Engineering / specialization in the project area) 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 is available with environmental science qualified personnel. Full-fledged laboratory is available to carryout Environmental Management and Monitoring functions.
20	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.	Complied Firefighting system is provided as per the Tamilnadu Factories Rules. Fire hydrant system along with hydrants, fire monitors, portable fire extinguishers, foam pourers, sprinkler system, and flame detectors, etc are provided in the process as well as in the storage areas for protection of possible fire hazards during manufacturing process in material handling.



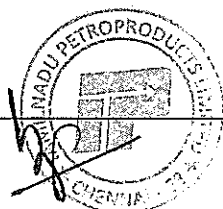
		<p>Fire license obtained from Tamilnadu Fire & Rescue services, Govt. of Tamilnadu. (Renewal Fire license validity is up to 21.08.2028).</p> <p>Onsite emergency plan is maintained to mitigate, in case of any emergency.</p>
21	<p>Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.</p>	<p>Complied</p> <p>Raw materials are stored in closed storage tanks to prevent dust pollution and other fugitive emissions.</p> <p>Storage Tanks are constructed over concrete floor and dykes are provided to trap runoff material.</p> <p>All roads are paved properly, and roads are being cleaned by using industrial vacuum cleaner.</p> <p>The Air Pollution Control Systems will be interlocked with process plant/ machinery for shutdown in case of operational failure of Air Pollution Control Equipment.</p>
22	<p>Continuous online (24x7) monitoring system for stack emissions/effluent shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.</p>	<p>Complied</p> <p><u>Emission Monitoring system</u></p> <p>Online Continuous Emission Monitoring system (OCEMS) is installed in the following stacks to monitor PM, SO₂, NO_x and CO parameters and the monitoring data is being transmitted to the CPCB and SPCB server.</p> <p>OCEMS provided at the following locations.</p> <ol style="list-style-type: none"> 1) Stack attached to Hot oil heater. 2) Stack attached to Hydrotreater heater. 3) Stack attached to PACOL heater. 4) Stack attached to Boiler. 5) Stack attached to CPP DG Sets and 6) Camera installed to view Flare stacks. <p>OCEMS connectivity details attached as <u>Effluents monitoring system</u></p> <p>Effluents are transferred through pipelines and not through channel/drain and hence online flowmeters are provided at the inlet and outlet of ETP and RO plant.</p> <p>Flow meters are provided at the following locations and connected to TNPCB/CPCB.</p>



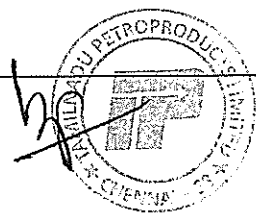
		<p>1) Inlet & Outlet of the ETP, 2) RO Feed 3) RO Permeate 4) RO Reject and 5) Combined effluent outlet from LAB - RO Reject & HCD to ECH PO Plant process.</p> <p>Online Continuous Effluent Monitoring system (OCEMS) is installed at the combined effluent outlet from LAB & HCD plants to ECH PO Plant process for monitoring PH, BOD/COD, TSS and the data is being transmitted to the CPCB and SPCB server.</p>
23	<p>PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.</p>	<p>Complied</p> <p>Occupational health centre is available in the site with the following facility.</p> <p>1) Doctor 2) Nurse, round the clock. 3) Ambulance</p> <p>Periodic medical check-up for all employees is being done at regular interval. Records are maintained. The health data is being used in deploying the duties of the employees.</p> <p>Primary Health Care Centres (PHCC) are provided at nearby villages (Vichoor, Sadayankuppam, Periyasekkadu, Kannampalayam & Seemavaram) to cater to the primary health care needs of the peoples residing nearby areas.</p> <p>Required Personal Protective Equipment (PPEs) are being given to all employees & contractors.</p>
24	<p>The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.</p>	<p>Complied</p> <p>The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time, is being followed.</p>
25	<p>Recommendations of mitigation measures from possible accident shall be</p>	<p>Complied</p>



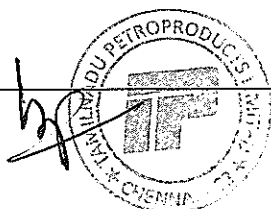
<p>implemented based on advanced risk Assessment studies conducted for worst case scenarios using latest techniques.</p>	<p>Adequate safety measures are provided to mitigate possible accident.</p> <p>Risk Assessment studies have been conducted for worst case scenarios using latest techniques through accredited consultant and the recommendations given in the risk assessment studies are being implemented.</p> <p>Existing safety measures:</p> <ul style="list-style-type: none"> • TPL – LAB has a well laid individual Fire Water pumping system with Jockey pumps, Main motor driven pumps and Diesel engine driven pumps. • Fire hydrant ring header runs throughout the plant, covering the entire LAB plant with sufficient numbers of hydrants and monitors as per the Tamil Nadu Factories Rules requirements. • Sprinkler systems are provided in the storage tanks storing class A chemical. • Nitrogen blanketing system is provided in the benzene storage tanks. • Benzene Online analyzer is provided. • LNG, LPG, Hydrogen, HF and HC detectors are provided at handling areas. • Necessary PPEs are provided. • Hydrant system, Foam pourer, water monitor, are provided. • Fire alarm manual call points provided. • Dyke walls are provided for all storage tanks to contain the liquid in case of any leakages. <p>Risk assessment study –Recommendations</p> <ul style="list-style-type: none"> • Fixed water spray system is provided to HF handling area to minimize the HF dispersion into surroundings. • Online HF leak detectors are provided in and around HF storage and handling areas. • Chemical Protective suit with dual air system and necessary PPE are provided.
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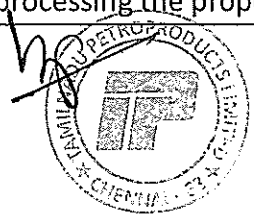
		<ul style="list-style-type: none"> • Periodic training is given to all employees using PPEs and handling emergencies. • Periodic thickness survey is being carried out for HF pipelines, storage tank and vessels. • Standard Operating Procedures is available to take care of emergencies. • Operator training and retraining are being carried out continuously and Mock Drills are being carried out regularly on identified scenarios. • Work Permit System is being strictly enforced. • Explosion proof electrical equipment and lighting features are provided in the classified area. • Smoking and carrying smoking accessories are strictly prohibited. • Ensure that safe work practices are followed in premises, including hot work procedures in areas near flammable inventories. • Safety Procedures and Do's and Don'ts is prepared and displayed in handling and storage area. • Periodic inspection of Pipelines and painting are being carried out to avoid corrosion and subsequent leak.
26	<p>PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.</p>	<p>Complied</p> <p>TPL plant premises is declared as 'Plastic Free Zone'.</p> <p>Display board made of metal with pictorial representation of the banned "one time use and throwaway plastic" items is provided at the entrance of the industry.</p> <p>Conducted awareness programs on ban on use of "one time use and throwaway plastic" and the alternatives for the banned plastics Eco-friendly alternatives such as banana leaf, arecanut palm plate, stainless steel, glass porcelain plants/cups</p>



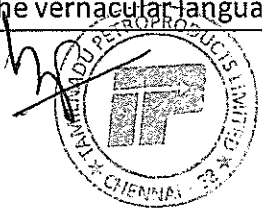
		cloth bag, jute bag etc are being encouraged for use.
	General Condition	
1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, 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, Forests & Climate Change. in case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference will be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.,
2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Complied Energy efficient LED bulbs are being used for lighting purpose to conserve energy and environment betterment.
3	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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	Complied Acoustic hoods, silencers, enclosures, etc., are provided at DG sets to keep the noise level within the prescribed standards. All machineries like blowers, compressors are being maintained properly, and preventive maintenance are taken as per the schedule to control the noise levels. Ambient noise levels are being monitored periodically through in-house laboratory and TNPCB laboratory.
4	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Being Complied All relevant measures are being taken towards the improvement of socio-economic conditions of the surrounding area. Action plan was prepared to undertake eco-developmental measures including community welfare measures under Corporate Environmental Responsibility (CER) involving local villages and administration in the project area for the overall improvement of the environment.



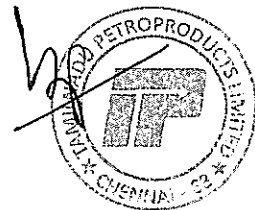
		<p>Following community welfare measures are taken under CSR/CER activities. Primary Health Care Centre (PHCC) is provided at following location in Manali area to cater to the primary health care needs of the peoples residing nearby areas.</p> <ul style="list-style-type: none"> • Sadayankuppam • Vichoor • Periyasekkadu • Kannampalayam • Seemavaram • Smart classroom facility provided to Sadayankuppam village school <p>Constructed Rest rooms in Government schools at following location in, Manali.</p> <ul style="list-style-type: none"> • Government high school at Manali New Town • Government high school at Redhill • Government high school at Vichoor • Government high school at Padiyanallur • Near Sathankadu police station <p>CER spent details is attached as Annexure-03</p>
<p>5</p>	<p>The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.</p>	<p>Being Complied</p> <p>Sufficient funds are earmarked towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government and implementation schedule is prepared and being followed.</p> <p>Funds earmarked for environmental management / pollution control measures will not be diverted for any other purpose.</p>
<p>6</p>	<p>A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.</p>	<p>Complied</p> <p>No suggestion / representation has been received from Panchayat / Municipal corporation urban local body and local NGO while processing the proposal.</p>



<p>7</p>	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.</p>	<p>Being Complied 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 by e-mail) will be submitted to MOEF Regional Office/ the Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report are uploaded in our company's website (www.tnpetro.com) and is being updated periodically.</p>
<p>8</p>	<p>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 the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.</p>	<p>Being 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 to TNPCB on 25.09.2025. The six-monthly compliance status of environmental clearance conditions including results of monitored data is being submitted to MOEF Regional Office through e-mail. A copy of Form V and six-monthly compliance status of environmental clearance conditions were uploaded in the company's website. (www.tnpetro.com)</p>
<p>9</p>	<p>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 and at https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality</p>	<p>Complied Detail of the Environmental clearance obtained for the project was published in English & Tamil newspapers (The Financial Express on 03.12.2022 and Makkal Kural on 02.12.2022) as public notice advertisements. Advertisements were submitted to the Regional Office, MOEFCC on 27.12.2022.</p>



	concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	
10	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.	<p>Complied.</p> <ul style="list-style-type: none"> The details of date of financial closure: 13th February 2023. <p>The consent for establishment (CTE) obtained from TNPCB CONSENT ORDER NOs. 2306151374029,2306251374029, DATED: 31/08/2023.</p> <ul style="list-style-type: none"> G.O from Tamilnadu Government based on Site Appraisal Committee (SAC) recommendation obtained in the month of November-2023 Date of start of the project: Sep-2023 <p>Project was completed & CTO Expansion was obtained from TNPCB on 09-12-25</p>
11	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted..





TAMIL NADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Manali
AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No. 08/AAQS/2025-26

Date: 13.06.2025

1. Name of the Industry : **M/s. TPL (LAB),**
2. Address of the Industry : Manali Express Highway, Chennai - 68.
3. Date of Survey : 13.05.2025
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 (°C)	Min	Max	Relative Humidity (%)	Min	Max
	26	34		55	68
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	NE – SW		Mean Wind Speed (km/hr)	17.8	

Ambient Air Quality Survey Results

Sl. No.	Location	Direction *	Distance (m) *	Height Form GL (m)	Pollutants Concentration (microgram / m ³)			
					PM 2.5	PM 10	SO ₂	NO ₂
1	On top of platform near hot oil heater	NE	100	2.0	22	73	9	21
2	On top of platform adjacent to Raw water pond	E	50	2.0	--	78	10	20
3	On top of CP station near flare stack	SE	100	2.0	--	75	11	22
4	On top of CP station – I	SW	100	2.0	34	89	14	25
5	On Top of Drivers rest Room	W	75	2.0	--	86	12	26
6	On top of the weigh bridge office room	NW	150	2.0	--	84	13	24

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


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

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



TAMILNADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Manali

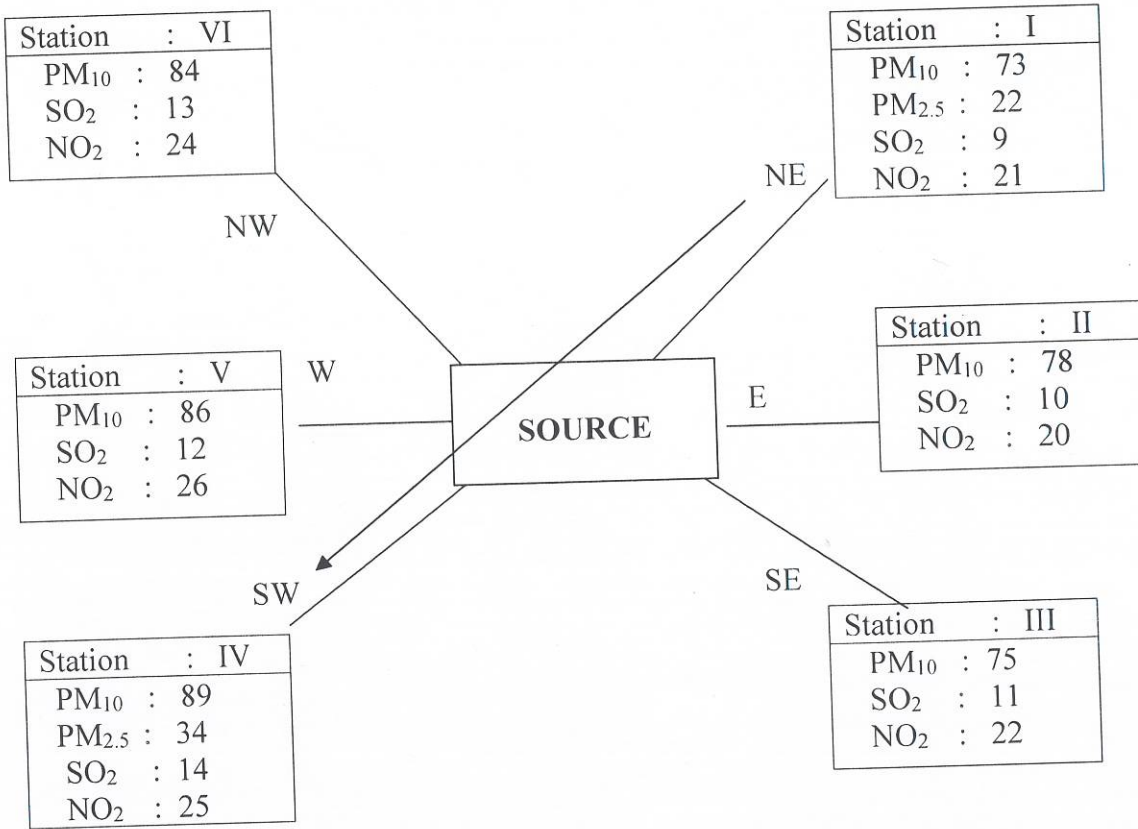
AMBIENT AIR QUALITY SURVEY

Schematic Diagram Showing Location of Sampling

Report No.08 /AAQ/SM/2025-26

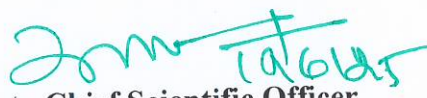
Name and Address of the Industry : **M/s. TPL (LAB)**
Manali Express Highway, Chennai – 68.

Date of Survey : 13.05.2025



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

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


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



TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

STACK MONITORING SURVEY – Report of Analysis

Report No. 08/ SM/2025-26

Date: 13.06.2025

1. Name of the Industry : M/s. TPL (LAB),
2. Address of the Industry : Manali Express Highway, Chennai – 68
3. Date of Survey : 13.05.2025
4. Type of Industry : Coal/Chemical/Sugar/Paper & Pulp/
Power plant / Textile Processing/Petroproducts

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Fuel used	Stack Temp °K	Velocity in (m/ sec)	Discharge rate In Nm ³ /hr	Pollutants (mg / Nm ³)		
						PM	SO ₂	NO _x
1	Boiler – 8T	LNG	467	15.9	57119	4	4	48
2	PACOL Heater	LNG	709	23.4	33952	4	3	42
3	Hydrobon Heater	LNG	407	21.0	20893	4	2	8
4	CPP-II	LNG	427	23.7	68639	2	3	32
5	Hot Oil Heater	LNG	438	24.6	344568	4	2	46

Test Performed	Test Method
PM	IS 11255 : (Part 1) – 1985
SO ₂	IS 11255 : (Part 2) – 1985
NO _x	IS 11255 : (Part 7) – 2005


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



TAMILNADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Manali

Stack Details

Report No.08/AAQ/SM/2025-26

1. Name and Address of the Industry : **M/s. TPL (LAB)**
Manali Express Highway, Chennai – 68
2. Date of Survey : 13.05.2025

Sl. No.	Particulars	1	2	3
1.	Stack attached to	Boiler	Heater	Heater
2.	Details of process stack	Boiler- 8T	PACOL	Hydrobon
3.	Height from G Level in (m)	30	30	30
4.	Diameter in (m)	1.4	1.1	0.69
5.	Port hole height from Ground Level or bends or ducts in (m)	16.7	40.0	20.0
6.	Fuel Used (with % Sulphur content)	LNG	LNG	LNG
7.	Fuel Consumption rate per hr (mention units)	10 kg / hr	880 kg / hr	120 kg / hr
8.	Type of Stack and capacity	Round	Round	Round
9.	Production on 13.05.2025	Linear Alkyl Benzene 294 MT, N-Paraffin – 184 MT, Heavy Alkylate – 6 MT		
10.	APC Measures provided	Stack Provided	Stack Provided	Stack Provided
11.	APC functional status	Functioning	Functioning	Functioning
12.	Ambient temp in °K	303	304	304
13.	Temp of flue gas in °K	467	709	407
14.	Velocity of flue gas in m/sec	15.9	23.4	21.0
15.	Volume of flue gas sampled in m ³	1.01	0.984	1.01
16.	Gaseous Discharge rate per day in Nm ³ /hr	57119	33952	20893


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

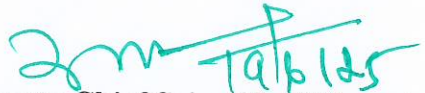


TAMILNADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Manali
Stack Details

Report No.08/AAQ/SM/2025-26

1. Name and Address of the Industry : **M/s. TPL (LAB)**
Manali Express Highway, Chennai – 68
2. Date of Survey : 13.05.2025

Sl. No.	Particulars	4	5
1.	Stack attached to	CPP	Heater
2.	Details of process stack	CPP-II	Hot Oil Heater
3.	Height from G Level in (m)	30	76
4.	Diameter in (m)	1.2	3.4
5.	Port hole height from Ground Level or bends or ducts in (m)	26	68
6.	Fuel Used (with % Sulphur content)	LNG	LNG
7.	Fuel Consumption rate per hr (mention units)	950 kg / hr	3500 kg / hr
8.	Type of Stack and capacity	Round	Round
9.	Production on 13.05.2025	Linear Alkyl Benzene 294 MT, N-Paraffin – 184, MT Heavy Alkylate – 6 MT	
10.	APC Measures provided	Stack Provided	Stack Provided
11.	APC functional status	Functioning	Functioning
13.	Ambient temp in °K	304	305
14.	Temp of flue gas in °K	427	438
15.	Velocity of flue gas in m/sec	23.7	24.6
16.	Volume of flue gas sampled in m ³	1.02	0.992
17.	Gaseous Discharge rate per day in Nm ³ /hr	68639	344568


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



TAMIL NADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Manali

STACK MONITORING SURVEY – Additional details

Report No. 08/ SM/2025-26

Date: 13.06.2025

1. Name of the Industry : M/s. TPL (LAB)
2. Address of the Industry : Manali Express Highway, Chennai – 68
3. Date of Survey : 13.05.2025
4. Type of Industry : Coal/Chemical/Sugar/Paper & Pulp/
Power plant / Textile Processing/ **Petroproducts**

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 – 8T	Working	Sampling Done	--
2.	PACOL Heater	Working	Sampling Done	--
3.	Hydrobon Heater	Working	Sampling Done	--
4.	CPP-II	Working	Sampling Done	--
5.	Hot Oil Heater	Working	Sampling Done	--


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



TAMIL NADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Manali
AMBIENT/SOURCE NOISE LEVEL SURVEY - Report of Analysis

Report No. 08/ NLS/2025-26

Date: 13.06.2025

1.	Name of the Industry	M/s. TPL (LAB)		
2.	Address of the Industry	Manali Express Highway, Chennai - 68		
3.	Date of Survey	13.05.2025		
Category	RL	Land use Classification	Industrial	
Type of Survey	Ambient/Source	Time of Survey	Day	
Meteorological conditions		Calm/Windy/Rainy	Windy	

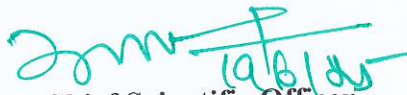
Logging Parameters

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)		
					Leq	Min	Max
1	Near Hot Oil Heater	10	100	NE	62.7	57.5	86.4
2	Near Raw Water Pond	10	50	E	70.0	58.4	82.7
3	Top of CP Station Near Flare Stack	10	100	SE	64.0	58.4	80.0
4	Near CP Station -I	10	100	SW	69.4	60.1	81.5
5	Top of Drivers Rest Room	10	75	W	71.0	57.3	86.1
6	Top of weigh bridge near office room	10	100	NW	59.8	56.8	68.9

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


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



TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

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

1. Name of Industry : M/s. TPL (LAB)
2. Pollution Category : Red Large
3. Date of A.A.Q. Survey : 13.05.2025
4. Predominant Wind Direction : NE - SW
5. Weather condition : Partially Cloudy

STATUS OF POLLUTANTS LEVEL

I. AMBIENT AIR QUALITY :-

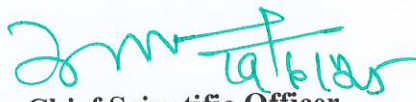
1. Total No. of A.A.Q. stations monitored : 6
2. No. of A.A.Q. stations in which Pollutants Level exceeded the Boards standards : Nil

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	89	73	100
	PM _{2.5}	34	22	60
2.	<u>GASEOUS POLLUTANTS:-</u>			
	(i) SO ₂	14	9	80
	(ii) NO ₂	26	20	80

II. STACK MONITORING:-

1. Total No. of Stacks Monitored : 5
2. No. of Stacks in which Pollutants level Exceeded the Boards standards : Nil


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



TAMILNADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Manali

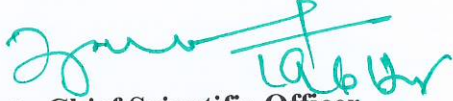
TVOC Survey – Report of Analysis

Report No.08 /TVOC/2025-26 dated :13.06.2025

1. Name of the Industry : M/s. TPL (LAB)
2. Address of the Industry : Manali Express Highway, Chennai - 68
3. Date of Survey : 13.05.2025
4. Pollution Category : Red Large

TVOC – Analysis Report

Sl.No.	Location	Direction	Distance (mts)	TVOC (ppm)
1	Near Hot Oil Heater	NE	100	0.0
2	Near Raw Water Pond	E	50	0.0
3	Top of CP Station Near Flare Stack	SE	100	0.0
4	Near CP Station -I	SW	100	0.0
5	Top of Drivers Rest Room	W	75	0.0
6	Top of weigh bridge near office room	NW	150	0.0


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

TPL – LAB Plant

Environmental Clearance - Newspaper Advertisement

FINANCIAL EXPRESS
12

BLU SMART MOBILITY
The Indian EXPRESS AQDA
WHERE NEWSMAKERS DROP IN FOR A CANDID CHAT.
Express Aqda hosts
Bhupender Yadav
Union Minister for Environment, Forest and Climate Change, Government of India

WATER RESOURCES DEPARTMENT
Recruitment Notice

Government of India
Ministry of Rural Development
Department of Rural Development (Chennai District)
Core Office, India House Centre, Luthi Road, New Delhi - 110002

Recruitment Notice

National Institute of Rural Development & Parastatal Org. (NIRDPAO) incorporated as an autonomous organization under the administrative control of the Ministry of Rural Development, Government of India, is undertaking training, research, action research and extension projects in rural development. It provides an inter-disciplinary academic environment backed by an excellent infrastructure and state-of-art research and extension facilities.

The Ministry invites applications in prescribed format for the post of Deputy Director General of NIRDPAO, Chennai.

1. Pay Band and Grade pay Rs. 10,000-15,000 (P) Rs. 10000 (G) GPO.

2. Method of Recruitment: Department - open - Direct Recruitment.

3. Nature: 10 posts are available across the age of 30 years and below.

4. Age limit for Direct Recruitment: Postgraduate degree 30 years.

5. Age limit for appointment by PE: post on closing date of receipt of application.

Applications in the prescribed format should be sent through the Central Controlling and Administration Office, to the Under Secretary, (Training) Ministry of Rural Development, Department of Rural Development, Core Office, India House Centre, Luthi Road, New Delhi - 110002. Details regarding qualifications and experience along with application form may be downloaded from www.nirdpaoinia.in.
LAST DATE: 31.12.2022
Mail No. 21002-01-0001/2022/1791
(Sensy Kumar)

English Newspaper – Financial Express dated 03.12.2022

Tamilnadu Petroproducts Limited
Regd. Office & Factory: Manali Express Highway, Manali, Chennai 600 068. Telefax: 044-25945500
CIN: L23200TN1984PLC010931
Website: www.tnpetro.com
E-mail: secy-legal@tnpetro.com

PUBLIC NOTICE

This is to inform that the Ministry of Environment, Forest and Climate Change, New Delhi has accorded Environmental Clearance for the expansion of Linear Alkyl Benzene (LAB) production from 125000 TPA to 145000 TPA within the existing LAB Plant, Manali, Chennai - 600068 vide their letter No.J-11011/469/2021-IA-II(I) dated 28.11.2022.

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 Ministry of Environment, Forest and Climate Change at <http://parivesh.nic.in>.

Place : Chennai - 600068
Date : 02.12.2022 Dy. General Manager - HR

600 ஏழைகளுக்கு ஆதரவு இனிய நேரம்!
கு.20 வர் மதிப்பில் துவரை உபகரணங்கள் அமைச்சர் கு.கே. சேகர்பட்டி வழங்கினார்

தமிழ்நாடு பெட்ரோப்ராடகல் லிமிடெட்
பதிவு அலுவலகம் - ஆலை: மணலி எக்ஸ்பிரஸ் ஹைவே, மணலி, சென்னை-600 068.
தி.ப.என் : L23200TN1984PLC010931
தொலைபேசி எண்: 044-25945500
வலைதளம்: www.tnpetro.com
மின்னஞ்சல்: secy-legal@tnpetro.com

பொது அறிவிப்பு

தமிழ்நாடு பெட்ரோப்ராடகல் லிமிடெட், மணலி, சென்னை 600068ல் அமைந்துள்ள லீனியர் அல்கைல் பென்சீன் ஆலையில் 1,20,000 டன் வருட உற்பத்தியிலிருந்து 1,45,000 டன் வருட உற்பத்தி அளவிற்கு லீனியர் அல்கைல் பென்சீன் உற்பத்தி விரிவாக்கத் திட்டத்திற்கு மத்திய சுற்றுச்சூழல், வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகம் சுற்றுச்சூழல் அனுமதி வழங்கியுள்ளது (J-11011/469/2021-IA-II(I) தேதி 28.11.2022).

மேற்படி விரிவாக்கத் திட்டத்திற்கான சுற்றுச்சூழல் அனுமதி கடிதத்தின் நகல் தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம் / கமிட்டி, சென்னை அலுவலகத்தில் உள்ளது. மேலும் இக்கடிதத்தின் நகலை மத்திய சுற்றுச்சூழல், வனம் மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் இணையதளத்திலும் (<http://parivesh.nic.in>) காணலாம்.

இடம் : சென்னை - 600068
தேதி : 02.12.2022
துணை பொது மேலாளர் - மனிதவளம்

Tamil Newspaper – Makkal Kural dated 02.12.2022



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-1174925000000732F

Test Report No: RSIWMSL/CON/25-26/09/0400

Page 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date : 30.09.25 Sample Condition : Sample received in Polyethylene cover
 Analysis Completion date : 30.09.25 Sample description/Code : Ambient Air Quality
 Analysis Starting Date : 20.09.25 Sample Location : Near Hot Oil Heater (North East)
 Sampling Date & Time : 19.09.25 to 20.09.25 (10:00am to 10:00am) Sample registration no : RSIWMSL/25-26/09/AAQ/0400
 Sample received Date : 20.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd
 Sub-Contracting of Tests : NA Sampling Procedure : IS-5182
 Environmental Condition :
 Ambient Temperature: Min: 24.6° C, Max: 33.0° C
 Relative Humidity : Min: 60% & Max: 94%

TEST RESULT

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	Particulate Matter (PM2.5)	µg/m ³	IS: 5182-Part-24	27.45	60
2.	Particulate Matter (PM10)	µg/m ³	IS: 5182-Part-23	57.97	100
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS: 5182-Part-2	15.25	80
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS: 5182-Part-6	25.0	80
5.	Carbon Monoxide as CO	mg/m ³	IS: 5182 -Part-10	1.33	4.0
6.	Ammonia as NH ₃	µg/m ³	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/m ³	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/m ³	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C ₆ H ₆	µg/m ³	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



Sustainability

Page 1 of 1

TC-11749

TEST REPORT

URL No:TC-1174925000000733F

Test Report No: RSIWMSL/CON/25-26/09/0401

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date : 30.09.25 Sample Condition : Sample received in Polyethylene cover
 Analysis Completion date : 30.09.25 Sample description/Code : Ambient Air Quality
 Analysis Starting Date : 20.09.25 Sample Location : Near Raw Water Pond (East)
 Sampling Date & Time : 19.09.25 to 20.09.25 (10:05am to 10:05am) Sample registration no : RSIWMSL/25-26/09/AAQ/0401
 Sample received Date : 20.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd
 Sub-Contracting of Tests : NA Sampling Procedure : IS-5182
 Environmental Condition :
 Ambient Temperature: Min: 24.6° C, Max: 33.0° C
 Relative Humidity : Min: 60% & Max: 94%

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	50.51	100
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS: 5182-Part-2	13.45	80
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS: 5182-Part-6	22.37	80
5.	Carbon Monoxide as CO	mg/m ³	IS: 5182 -Part-10	1.17	4.0
6.	Ammonia as NH ₃	µg/m ³	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/m ³	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/m ³	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C ₆ H ₆	µg/m ³	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.

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**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: laboratorynwml@resustainability.com



TC-11749

TEST REPORT

URL No:TC-1174925000000734F

Test Report No: RSIWMSL/CON/25-26/09/0402

Sustainability
Page 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date : 30.09.25 Sample Condition : Sample received in Polyethylene cover
 Analysis Completion date : 30.09.25 Sample description/Code : Ambient Air Quality
 Analysis Starting Date : 20.09.25 Sample Location : Near Driver Rest Room (West)
 Sampling Date & Time : 19.09.25 to 20.09.25 (10:20am to 10:20am) Sample registration no : RSIWMSL/25-26/09/AAQ/0402
 Sample received Date : 20.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd
 Sub-Contracting of Tests : NA Sampling Procedure : IS-5182
 Environmental Condition :
 Ambient Temperature: Min: 24.6° C, Max: 33.0° C
 Relative Humidity : Min: 60% & Max: 94%

TEST RESULT

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	Particulate Matter (PM2.5)	µg/m ³	IS: 5182-Part-24	22.87	60
2.	Particulate Matter (PM10)	µg/m ³	IS: 5182-Part-23	56.59	100
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS: 5182-Part-2	15.25	80
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS: 5182-Part-6	22.19	80
5.	Carbon Monoxide as CO	mg/m ³	IS: 5182 -Part-10	1.19	4.0
6.	Ammonia as NH ₃	µg/m ³	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/m ³	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/m ³	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C ₆ H ₆	µg/m ³	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.

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-----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-1174925000000735F

Test Report No: RSIWMSL/CON/25-26/09/0403

Page 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date : 30.09.25 Sample Condition : Sample received in Polyethylene cover
 Analysis Completion date : 30.09.25 Sample description/Code : Ambient Air Quality
 Analysis Starting Date : 20.09.25 Sample Location : Near CP Station-1 (South West)
 Sampling Date & Time : 19.09.25 to 20.09.25 (10:15am to 10:15am) Sample registration no : RSIWMSL/25-26/09/AAQ/0403
 Sample received Date : 20.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd
 Sub-Contracting of Tests : NA Sampling Procedure : IS-5182
 Environmental Condition :
 Ambient Temperature: Min: 24.6° C, Max: 33.0° C
 Relative Humidity : Min: 60% & Max: 94%

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	51.62	100
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS: 5182-Part-2	12.11	80
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS: 5182-Part-6	20.79	80
5.	Carbon Monoxide as CO	mg/m ³	IS: 5182 -Part-10	BDL (DL: 1.14)	4.0
6.	Ammonia as NH ₃	µg/m ³	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/m ³	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/m ³	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C ₆ H ₆	µg/m ³	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.

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-----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-1174925000000736F

Test Report No: RSIWMSL/CON/25-26/09/0404

Page 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date : 30.09.25 Sample Condition : Sample received in Polyethylene cover
 Analysis Completion date : 30.09.25 Sample description/Code : Ambient Air Quality
 Analysis Starting Date : 20.09.25 Sample Location : Near Flare Stack (South East)
 Sampling Date & Time : 19.09.25 to 20.09.25 (10:10am to 10:10am) Sample registration no : RSIWMSL/25-26/09/AAQ/0404
 Sample received Date : 20.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd
 Sub-Contracting of Tests : NA Sampling Procedure : IS-5182
 Environmental Condition :
 Ambient Temperature: Min: 24.6° C, Max: 33.0° C
 Relative Humidity : Min: 60% & Max: 94%

TEST RESULT

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	Particulate Matter (PM2.5)	µg/m ³	IS: 5182-Part-24	29.11	60
2.	Particulate Matter (PM10)	µg/m ³	IS: 5182-Part-23	61.39	100
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS: 5182-Part-2	16.59	80
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS: 5182-Part-6	23.12	80
5.	Carbon Monoxide as CO	mg/m ³	IS: 5182 -Part-10	1.39	4.0
6.	Ammonia as NH ₃	µg/m ³	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/m ³	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/m ³	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C ₆ H ₆	µg/m ³	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.

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Phone: +91 9677122694, E-mail: laboratorytnwml@resustainability.com



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Page 1 of 1

TC-11749

TEST REPORT

URL No:TC-117492500000737F

Test Report No: RSIWMSL/CON/25-26/09/0405

Discipline: Chemical
Group: Atmospheric Pollution

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

Report Date : 30.09.25 Sample Condition : Sample received in Polyethylene cover
Analysis Completion date : 30.09.25 Sample description/Code : Ambient Air Quality
Analysis Starting Date : 20.09.25 Sample Location : Near Weigh Bridge Office Room (North West)
Sampling Date & Time : 19.09.25 to 20.09.25 (10:25am to 10:25am) Sample registration no : RSIWMSL/25-26/09/AAQ/0405
Sample received Date : 20.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd
Sub-Contracting of Tests : NA Sampling Procedure : IS-5182
Environmental Condition :
Ambient Temperature: Min: 24.6° C, Max: 33.0° C
Relative Humidity : Min: 60% & Max: 94%

TEST RESULT

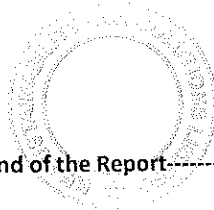
S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	Particulate Matter (PM2.5)	µg/m ³	IS: 5182-Part-24	31.19	60
2.	Particulate Matter (PM10)	µg/m ³	IS: 5182-Part-23	68.44	100
3.	Sulphur Dioxide as SO ₂	µg/m ³	IS: 5182-Part-2	17.49	80
4.	Nitrogen Dioxide as NO ₂	µg/m ³	IS: 5182-Part-6	27.22	80
5.	Carbon Monoxide as CO	mg/m ³	IS: 5182 -Part-10	1.21	4.0
6.	Ammonia as NH ₃	µg/m ³	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/m ³	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/m ³	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C ₆ H ₆	µg/m ³	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.

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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

URL No:TC-1174925000000741F

Test Report No: RSIWMSL /CONR/25-26/09/0409

Page: 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date	:30.09.2025	Sample Condition	: Sample received in Good
Analysis Completion date	:30.09.2025	Sampling Procedure	: IS:11255 & SOP
Analysis Starting Date	:19.09.2025	Sample registration no	: RSIWMSL /25-26/09/Stack/0409
Sampling Date	:19.09.2025	Sample description/Code	: Stack Emission
Sample received Date	:20.09.2025	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	1.4m
2	Temperature	471 °K
3	Velocity	7.79 m/sec
4	Volume of Gas Discharged	26905 Nm ³ /hr

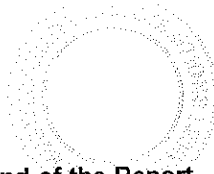
S.No.	Parameter	Unit	Test Method	RESULTS	Limit as Per MOEF Notification (Max)
1	Particulate Matter	mg/Nm ³	IS:11255 (Part-1)-1985	BDL(DL:5.0)	10
2	Oxides of Nitrogen	mg/Nm ³	IS:11255 (Part-7)-2005	58	250
3	Sulphur Dioxide	mg/Nm ³	IS:11255 (Part-2)-1985	BDL(DL:5.0)	50
4	Carbon Monoxides as CO	mg/Nm ³	RSIWMSL/LAB_SOP_34	3.2	150
5	Carbon Dioxide as CO ₂	%		4.6	--
6	Oxygen as O ₂	%		2.04	--

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.

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TC-11749

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



Sustainability

TEST REPORT

URL No:TC-1174925000000738F

Test Report No: RSIWMSL /CONR/25-26/09/0406

Page: 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date :30.09.2025 Sample Condition : Sample received in Good
Analysis Completion date :30.09.2025 Sampling Procedure : IS:11255 & SOP
Analysis Starting Date :19.09.2025 Sample registration no : RSIWMSL /25-26/09/Stack/0406
Sampling Date :19.09.2025 Sample description/Code : Stack Emission
Sample received Date :20.09.2025 Sample Location : Captive Power Plant 7 MW LNG Based (1&2) Stack
Sub-Contracting of Tests : NA Sample Collected by : Re Sustainability IWM Solutions Ltd

TEST RESULT

S.No.	Stack Details	Engine-5	Engine-6
1	Diameter	1.2m	1.2m
2	Temperature	653 °K	659 °K
3	Velocity	17.09 m/sec	17.16 m/sec
4	Volume of Gas Discharged	31072 Nm ³ /hr	31135 Nm ³ /hr

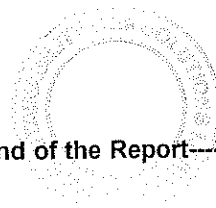
S.No.	Parameter	Unit	Test Method	RESULTS		Limit as Per MOEF Notification (Max)
				Engine-5	Engine-6	
1	Particulate Matter	mg/Nm ³	IS:11255 (Part-1)-1985	BDL(DL:5.0)	BDL(DL:5.0)	05
2	Oxides of Nitrogen	mg/Nm ³	IS:11255 (Part-7)-2005	129	141	250
3	Sulphur Dioxide	mg/Nm ³	IS:11255 (Part-2)-1985	9.65	9.96	50
4	Carbon Monoxides as CO	mg/Nm ³	RSIWMSL/LAB_SOP_34	66.4	69.7	100
5	Carbon Dioxide as CO ₂	%		6.2	6.8	--
6	Oxygen as O ₂	%		10.56	10.97	--


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.


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Authorized Signatory

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

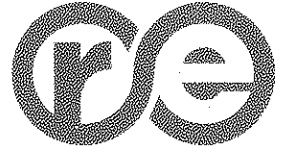


TC-11749

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-1174925000000740F

Test Report No: RSIWMSL /CONR/25-26/09/0408

Page: 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date	:30.09.2025	Sample Condition	: Sample received in Good
Analysis Completion date	:30.09.2025	Sampling Procedure	: IS:11255 & SOP
Analysis Starting Date	:19.09.2025	Sample registration no	: RSIWMSL /25-26/09/Stack/0408
Sampling Date	:19.09.2025	Sample description/Code	: Stack Emission
Sample received Date	:20.09.2025	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	515 °K
3	Velocity	5.73 m/sec
4	Volume of Gas Discharged	3314 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	29.4	50
2	Oxides of Nitrogen	mg/Nm ³	IS:11255 (Part-7)-2005	198	650
3	Sulphur Dioxide	mg/Nm ³	IS:11255 (Part-2)-1985	25	--
4	Carbon Monoxides as CO	mg/Nm ³	RSIWMSL/LAB_SOP_34	45	100
5	Carbon Dioxide as CO ₂	%		5.8	--
6	Oxygen as O ₂	%		14.9	--

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.


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-----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.
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Sustainability

TEST REPORT

URL No:TC-1174925000000742F

Test Report No: RSIWMSL /CONR/25-26/09/0410

Page: 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date	:30.09.2025	Sample Condition	: Sample received in Good
Analysis Completion date	:30.09.2025	Sampling Procedure	: IS:11255 & SOP
Analysis Starting Date	:19.09.2025	Sample registration no	: RSIWMSL /25-26/09/Stack/0410
Sampling Date	:19.09.2025	Sample description/Code	: Stack Emission
Sample received Date	:20.09.2025	Sample Location	: Hot Oil Heater Stack
Sub-Contracting of Tests	: NA	Sample Collected by	: Re Sustainability IWM Solutions Ltd

TEST RESULT

S.No.	Stack Details	
1	Diameter	3.41 m
2	Temperature	824 °K
3	Velocity	11.9 m/sec
4	Volume of Gas Discharged	1,39,337 Nm ³ /hr

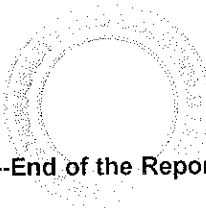
S.No.	Parameter	Unit	Test Method	Results	Limit as Per MOEF Notification (Max)
1	Particulate Matter	mg/Nm ³	IS:11255 (Part-1)-1985	BDL(DL:5.0)	10
2	Oxides of Nitrogen	mg/Nm ³	IS:11255 (Part-7)-2005	48	350
3	Sulphur Dioxide	mg/Nm ³	IS:11255 (Part-2)-1985	BDL(DL:5.0)	50
4	Carbon Monoxides as CO	mg/Nm ³	RSIWMSL/LAB_SOP_34	8.62	150
5	Carbon Dioxide as CO ₂	%		5.7	--
6	Oxygen as O ₂	%		2.64	--

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.

adw
Verified by



Adithy
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-1174925000000739F

Test Report No: RSIWMSL /CONR/25-26/09/0407

Page: 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date	:30.09.2025	Sample Condition	: Sample received in Good
Analysis Completion date	:30.09.2025	Sampling Procedure	: IS:11255 & SOP
Analysis Starting Date	:19.09.2025	Sample registration no	: RSIWMSL /25-26/09/Stack/0407
Sampling Date	:19.09.2025	Sample description/Code	: Stack Emission
Sample received Date	:20.09.2025	Sample Location	: Hydrotreater Heater Stack
Sub-Contracting of Tests	: NA	Sample Collected by	: Re Sustainability IWM Solutions Ltd

TEST RESULT

S.No.	Stack Details	
1	Diameter	0.69 m
2	Temperature	497 °K
3	Velocity	6.41 m/sec
4	Volume of Gas Discharged	5089 Nm ³ /hr

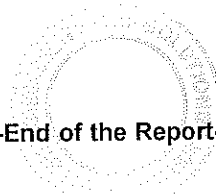
S.No.	Parameter	Unit	Test Method	Results	Limit as Per MOEF Notification (Max)
1	Particulate Matter	mg/Nm ³	IS:11255 (Part-1)-1985	BDL(DL:5.0)	10
2	Oxides of Nitrogen	mg/Nm ³	IS:11255 (Part-7)-2005	50	350
3	Sulphur Dioxide	mg/Nm ³	IS:11255 (Part-2)-1985	5.0	50
4	Carbon Monoxides as CO	mg/Nm ³	RSIWMSL/LAB_SOP_34	2.2	150
5	Carbon Dioxide as CO ₂	%		4.8	--
6	Oxygen as O ₂	%		2.57	--

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.

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-----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



TEST REPORT

TC-11749

URL No:TC-1174925000000743F

Test Report No: RSIWMSL /CONR/25-26/09/0411

Page: 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

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

Report Date	:30.09.2025	Sample Condition	: Sample received in Good
Analysis Completion date	:30.09.2025	Sampling Procedure	: IS:11255 & SOP
Analysis Starting Date	:19.09.2025	Sample registration no	: RSIWMSL /25-26/09/Stack/0411
Sampling Date	:19.09.2025	Sample description/Code	: Stack Emission
Sample received Date	:20.09.2025	Sample Location	: PACOL Heater Stack
Sub-Contracting of Tests	: NA	Sample Collected by	: Re Sustainability IWM Solutions Ltd

TEST RESULT

S.No.	Stack Details	
1	Diameter	1.1 m
2	Temperature	1028 °K
3	Velocity	16.67 m/sec
4	Volume of Gas Discharged	16275 Nm ³ /hr

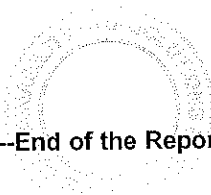
S.No.	Parameter	Unit	Test Method	Results	Limit as Per MOEF Notification (Max)
1	Particulate Matter	mg/Nm ³	IS:11255 (Part-1)-1985	BDL(DL:5.0)	10
2	Oxides of Nitrogen	mg/Nm ³	IS:11255 (Part-7)-2005	43	350
3	Sulphur Dioxide	mg/Nm ³	IS:11255 (Part-2)-1985	BDL(DL:5.0)	50
4	Carbon Monoxides as CO	mg/Nm ³	RSIWMSL/LAB_SOP_34	19.5	150
5	Carbon Dioxide as CO2	%		4.3	--
6	Oxygen as O2	%		2.12	--

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.

QAWP
Verified by



A. H. Ch.
Authorized Signatory

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



TC-11749



Sustainability

TEST REPORT

URL No:TC-117492500000744F

Test Report No: RSIWMSL /CON/25-26/09/0412

Page: 1 of 2


Discipline: Chemical

Group : Water

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB 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/0412
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 24 th Edition; 2121B: 2023	10
2	Odour	-	IS 3025:Part 5 : 2018	Agreeable
3	Temperature	°C	APHA 24 th Edition 2550 B : 2023	25.0
4	pH Value @ 25°C	-	APHA 24 th Edition 4500 H ⁺ B : 2023	7.05
5	Taste	-	APHA 24 th Edition 2160 C : 2023	Disagreeable
6	Conductivity @ 25°C	µS/cm	APHA 24 th Edition; 2510 B: 2023	2637
7	Total Dissolved Solids @ 180°C	mg/L	APHA 24 th Edition; 2540 C: 2023	1582
8	Aluminium as Al	mg/L	IS 3025 Part 55 : 2003	BDL(DL:0.02)
9	Calcium as Ca	mg/L	APHA 24 th Edition; 3500-Ca B: 2023	46
10	Chlorides as Cl	mg/L	APHA 24 th Edition; 4500-Cl B: 2023	649.8
11	Copper as Cu	mg/L	IS 3025 Part 42:2024	0.174
12	Fluoride as F-	mg/L	APHA 24 th Edition; 4500- F D: 2023	0.36
13	Free residual chlorine	mg/L	APHA 24 th Edition 4500-CIO ₂ B	BDL(DL:0.5)
14	Iron as Fe	mg/L	APHA 24 th Edition; 3500-Fe B: 2023	0.36
15	Magnesium as Mg	mg/L	APHA 24 th Edition; 3500-Mg B: 2023	14.0
16	Manganese as Mn	mg/L	APHA 24 th Edition; 3111 B: 2023	0.575
17	Nitrate as NO ₃	mg/L	APHA 24 th Edition 4500-NO ³ B : 2023	4.16
18	Sulphate as SO ₄	mg/L	APHA 24 th Edition 4500-SO ₄ E : 2023	149.7
19	Total alkalinity as CaCO ₃	mg/L	APHA 24 th Edition; 2320 B: 2023	136
20	Total hardness as CaCO ₃	mg/L	APHA 24 th Edition; 2340 C: 2023	173


Verified by
(S.Shanmugam)


Authorized Signatory - Chemical
(S.Subba Reddy)



TC-11749

URL No:TC-1174925000000744F

Test Report No: RSIWMSL /CON/25-26/09/0412

Sr.No	Parameters	Unit	Method	Result
21	Zinc as Zn	mg/L	APHA 24 th Edition; 3111 B: 2023	0.231
22	Cadmium as Cd	mg/L	APHA 24 th Edition; 3111 B: 2023	BDL(DL:0.01)
23	Lead as Pb	mg/L	APHA 24 th Edition; 3111 B: 2023	0.055
24	Mercury as Hg	mg/L	APHA 24 th Edition; 3112 B: 2023	BDL(DL:0.001)
25	Total arsenic as As	mg/L	APHA 24 th Edition; 3114 B: 2023	BDL(DL:0.002)
26	Total chromium as Cr	mg/L	APHA 24 th Edition; 3111 B: 2023	0.018
27	Sodium as Na	mg/L	APHA 24 th Edition;3500-Na B:2023	395
28	Dissolved Oxygen	mg/L	APHA 24 th Edition 4500- O B C: 2023	6.7
29	Bio Chemical oxygen Demand (3 days @27°C)	mg/L	IS 3025 Part 44:2023	6.0
30	Chemical Oxygen Demand	mg/L	APHA 24 th Edition 5220 B	48.5
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)

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



TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0412

Discipline: Chemical

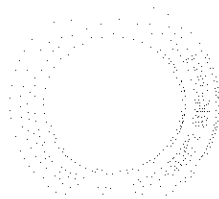
Group: Water


NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB 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/0412
Sampling Date	:29.09.2025	Sample description/Code	: Borewell 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	4.1
2	Salinity	-	APHA 24 th Edition 2520 B : 2023	1.17
3	Silver	mg/L	APHA 24 th Edition; 3111 B: 2023	BDL (DL: 0.1)


Verified by
(S.Shanmugam)




Authorized Signatory - Chemical
(S.Subba Reddy)

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



TC-11749



Sustainability

TEST REPORT

URL No:TC-1174925000000745F

Test Report No: RSIWMSL /CON/25-26/09/0413

Page: 1 of 2

Discipline: Chemical


Group: Water

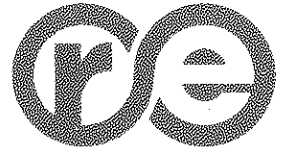
NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB Plant) Manali Express Highway, Manali, Chennai – 600 068.
--------------------------------	---

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/0413
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 24 th Edition; 2121B: 2023	10
2	Odour	-	IS 3025:Part 5 : 2018	Agreeable
3	Temperature	°C	APHA 24 th Edition 2550 B : 2023	25.6
4	pH Value @ 25°C	-	APHA 24 th Edition 4500 H ⁺ B : 2023	7.32
5	Taste	-	APHA 24 th Edition 2160 C : 2023	Disagreeable
6	Conductivity @ 25°C	µS/cm	APHA 24 th Edition; 2510 B: 2023	2780
7	Total Dissolved Solids @ 180°C	mg/L	APHA 24 th Edition; 2540 C: 2023	1668
8	Aluminium as Al	mg/L	IS 3025 Part 55 : 2003	4.208
9	Calcium as Ca	mg/L	APHA 24 th Edition; 3500-Ca B: 2023	133.7
10	Chlorides as Cl	mg/L	APHA 24 th Edition; 4500-Cl B: 2023	674.8
11	Copper as Cu	mg/L	IS 3025 Part 42:2024	0.039
12	Fluoride as F-	mg/L	APHA 24 th Edition; 4500- F D: 2023	0.25
13	Free residual chlorine	mg/L	APHA 24 th Edition 4500-CIO ₂ B	BDL(DL:0.5)
14	Iron as Fe	mg/L	APHA 24 th Edition; 3500-Fe B: 2023	0.23
15	Magnesium as Mg	mg/L	APHA 24 th Edition; 3500-Mg B: 2023	11.2
16	Manganese as Mn	mg/L	APHA 24 th Edition; 3111 B: 2023	1.090
17	Nitrate as NO ₃	mg/L	APHA 24 th Edition 4500-NO ₃ B : 2023	6.13
18	Sulphate as SO ₄	mg/L	APHA 24 th Edition 4500-SO ₄ E : 2023	210.8
19	Total alkalinity as CaCO ₃	mg/L	APHA 24 th Edition; 2320 B: 2023	329.0
20	Total hardness as CaCO ₃	mg/L	APHA 24 th Edition; 2340 C: 2023	379.5


Verified by
(S.Shanmugam)


Authorized Signatory - Chemical
(S.Subba Reddy)



TC-11749

URL No:TC-1174925000000745F

Test Report No: RSIWMSL /CON/25-26/09/0413

Sustainability
Page: 2 of 2


Sr.No	Parameters	Unit	Method	Result
21	Zinc as Zn	mg/L	APHA 24 th Edition; 3111 B: 2023	0.187
22	Cadmium as Cd	mg/L	APHA 24 th Edition; 3111 B: 2023	BDL(DL:0.01)
23	Lead as Pb	mg/L	APHA 24 th Edition; 3111 B: 2023	0.105
24	Mercury as Hg	mg/L	APHA 24 th Edition; 3112 B: 2023	BDL(DL:0.001)
25	Total arsenic as As	mg/L	APHA 24 th Edition; 3114 B: 2023	0.013
26	Total chromium as Cr	mg/L	APHA 24 th Edition; 3111 B: 2023	0.060
27	Sodium as Na	mg/L	APHA 24 th Edition;3500-Na B:2023	417
28	Dissolved Oxygen	mg/L	APHA 24 th Edition 4500- O B C: 2023	6.5
29	Bio Chemical oxygen Demand (3 days @27°C)	mg/L	IS 3025 Part 44:2023	5.0
30	Chemical Oxygen Demand	mg/L	APHA 24 th Edition 5220 B	39.0
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:

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- Test reports shall not be reproduced expect in full, without written approval of the laboratory.


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(S.Shanmugam)


Authorized Signatory - Biological
(S.Rajesh)


Authorized Signatory - Chemical
(S.Subba Reddy)



Sustainability

TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0413

Page: 1 of 1

Discipline: Chemical

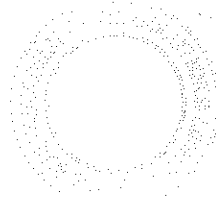
Group: Water


NAME AND ADDRESS OF THE CLIENT	M/S.Tamilnadu Petro Products Ltd, (LAB 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/0413
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	6.6
2	Salinity	-	APHA 24 th Edition 2520 B : 2023	1.22
3	Silver	mg/L	APHA 24 th Edition; 3111 B: 2023	BDL(DL:0.1)


Verified by
(S.Shanmugam)




Authorized Signatory - Chemical
(S.Subba Reddy)

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



TC-11749



Sustainability

TEST REPORT

URL No:TC-1174925000000746F

Test Report No: RSIWMSL /CON/25-26/09/0414

Page: 1 of 2


Discipline: Chemical


Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB 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/0414
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 24 th EDN 2120 B: 2023	25
2	Odour	-	IS 3025:Part 5 :2018	Disagreeable
3	Temperature	°C	APHA 24 th Edition 2550 B:2023	25.3
4	pH Value @ 25°C	-	APHA 24 th EDN 4500 H ⁺ B: 2023	8.05
5	Total Suspended solids	mg/L	APHA 24 th EDN 2540 D: 2023	174
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 24 th EDN 2540,C: 2023	1572
8	Oil & grease	mg/L	APHA 24 th EDN 5520 B: 2023	55
9	Ammonical Nitrogen as N	mg/L	APHA 24 th Edition 4500-NH ₃ B & C	2.90
10	Chlorides as Cl	mg/L	APHA 24 th EDN 4500 Cl ⁻ ,B: 2023	569.8
11	Copper as Cu	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.5)
12	Fluoride as F ⁻	mg/L	APHA 24 th Edition 4500- F B,D:2023	1.65
13	Free residual chlorine	mg/L	APHA 24 th Edition 4500-CIO ₂ B	BDL(DL:0.5)
14	Total Kjeldhal Nitrogen	mg/L	APHA 24 th Edition 4500-Norg C	5.92
15	Free ammonia	mg/L	APHA 24 th Edition 4500-NH ₃ - F	2.45
16	Boron as B	mg/L	APHA 24 th Edition 4500- B B:2023	BDL(DL:1.0)
17	Nickel as Ni	mg/L	APHA 24 th Edition 3111 B : 2023	0.276
18	Sulphates as SO ₄	mg/L	APHA 24 th EDN 4500 SO ₄ ²⁻ ,E : 2023	202.8
19	Percent sodium	%	RSIWMSL/LAB_SOP 019	67.9
20	Residual sodium carbonate	meq/L	RSIWMSL/LAB_SOP-057	BDL(DL:1.0)


Verified by
(S.Shanmugam)


Authorized Signatory - Chemical
(S.Subba Reddy)

**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



Page 2 of 2

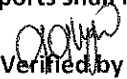
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
Test Report No: RSIWMSL /CON/25-26/09/0414

S.No	Parameters	Unit	Method	Result
21	Zinc as Zn	mg/L	APHA 24 th Edition 3111 B : 2023	1.06
22	Cadmium as Cd	mg/L	APHA 24 th Edition 3111 B : 2023	BDL(DL:0.1)
23	Lead as Pb	mg/L	APHA 24 th Edition 3111 B : 2023	0.110
24	Mercury as Hg	mg/L	APHA 24 th Edition 3112 B:2023	BDL(DL:0.005)
25	Total arsenic as As	mg/L	APHA 24 th Edition 3114 B:2023	BDL(DL:0.002)
26	Total chromium as Cr	mg/L	APHA 24 th Edition 3111 B : 2023	BDL(DL:0.5)
27	Selenium as Se	mg/L	APHA 24 th Edition 3114 C:2023	BDL(DL:0.005)
28	Hexavalent Chromium as Cr ⁺⁶	mg/L	APHA 24 th 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	85.0
30	Chemical Oxygen Demand	mg/L	APHA 24 th EDN 5220 B:2023	543.6
31	Total Cyanides as CN-	mg/L	APHA 24 th Edition 4500-CN C:2023	BDL(DL:0.01)
32	Phenolic Compounds as C ₆ H ₅ OH	mg/L	APHA 24 th Edition 5530 B & D:2023	BDL(DL:1.0)
33	Sulphide as S ²⁻	mg/L	APHA 24 th Edition 4500-S ²⁻ F:2023	BDL(DL:1.0)
34	Dissolved Phosphates as P	mg/L	APHA 24 th Edition 4500-P B & C:2023	0.75
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 except in full, without written approval of the laboratory.


Verified by
(S.Shanmugam)


Authorized Signatory - Chemical
(S.Subba Reddy)



TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0414

Page: 1 of 1


Discipline: Chemical
 Group: Pollution & Environment

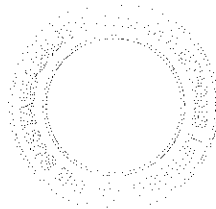
NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB Plant) Manali Express Highway, Manali, Chennai – 600 068.
--------------------------------	---

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/0414
 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	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
(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



TEST REPORT

TC-11749

URL No:TC-117492500000747F
Test Report No: RSIWMSL /CON/25-26/09/0415

Sustainability
Page: 1 of 2

Discipline: Chemical
Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB 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/0415
Sampling Date	:29.09.2025	Sample description/Code	: Waste water
Sample received Date	:30.09.2025	Sample Location	: ETP outlet water
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 24 th Edition 2120 B:2023	15	-
2	Odour	-	IS 3025 :Part 5 : 2018	Disagreeable	-
3	Temperature	°C	APHA 24 th Edition 2550 B:2023	25.7	40°C
4	pH Value @ 25°C	-	APHA 24 th Edition 4500-H+ B:2023	6.65	5.5 – 9.0
5	Total Suspended solids	mg/L	APHA 24 th EDN 2540 D: 2023	37.6	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 24 th Edition 2540 C:2023	1290	2100
8	Oil & grease	mg/L	APHA 24 th Edition 5520 B:2023	7.6	10
9	Ammonical Nitrogen as N	mg/L	APHA 24 th Edition 4500 NH3 - B & C	14.48	50
10	Chlorides as Cl	mg/L	APHA 24 th Edition 4500-Cl B:2023	439.9	1000
11	Copper as Cu	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.5)	3.0
12	Fluoride as F ⁻	mg/L	APHA 24 th Edition 4500- F B,D:2023	1.16	2.0
13	Free residual chlorine	mg/L	APHA 24 th Edition 4500-CLO2 B	BDL(DL:0.5)	1.0
14	Total Kjeldhal Nitrogen	mg/L	APHA 24 th Edition 4500-Norg C	17.24	100
15	Free ammonia	mg/L	APHA 24 th Edition 4500-NH3- F	1.23	5
16	Boron as B	mg/L	APHA 24 th Edition 4500- B B:2023	BDL(DL:1.0)	2.0
17	Nickel as Ni	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.2)	3.0
18	Sulphates as SO ₄	mg/L	APHA 24 th Edition 4500-SO4 E:2023	237	1000
19	Percent sodium	%	RSIWMSL/LAB_SOP 019	66.2	-
20	Residual sodium carbonate	meq/L	RSIWMSL/LAB_SOP-057	BDL(DL:1.0)	-


Verified by
(S.Shanmugam)


Authorized Signatory - Chemical
(S.Subba Reddy)

**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



URL No:TC-117492500000747F

Test Report No: RSIWMSL /CON/25-26/09/0415

Page: 2 of 2


Sustainability

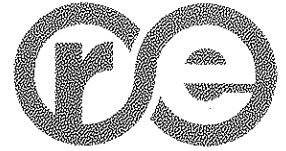
S.No	Parameters	Unit	Method	Result	TNPCB Limits
21	Zinc as Zn	mg/L	APHA 24 th Edition 3111 B:2023	0.303	1.0
22	Cadmium as Cd	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.1)	2.0
23	Lead as Pb	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.05)	0.1
24	Mercury as Hg	mg/L	APHA 24 th Edition 3112 B:2023	BDL(DL:0.005)	0.01
25	Total arsenic as As	mg/L	APHA 24 th Edition 3114 B:2023	BDL(DL:0.002)	0.2
26	Total chromium as Cr	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.05)	2.0
27	Selenium as Se	mg/L	APHA 24 th Edition 3114 C:2023	BDL(DL:0.005)	0.05
28	Hexavalent Chromium as Cr ⁺⁶	mg/L	APHA 24 th 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	25	30
30	Chemical Oxygen Demand	mg/L	APHA 24 th Edition 5220 B:2023	77.7	250
31	Total Cyanides as CN-	mg/L	APHA 24 th Edition 4500-CN C:2023	BDL(DL:0.01)	0.2
32	Phenolic Compounds as C ₆ H ₅ OH	mg/L	APHA 24 th Edition 5530 B & D:2023	BDL(DL:1.0)	1.0
33	Sulphide as S ²⁻	mg/L	APHA 24 th Edition 4500-S ²⁻ F:2023	BDL(DL:1.0)	2.0
34	Dissolved Phosphates as P	mg/L	APHA 24 th Edition 4500-P B & C:2023	0.23	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)



TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0415

Discipline: Chemical
 Group: Pollution & Environment

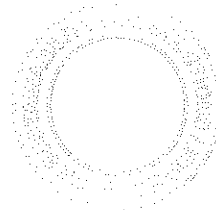
NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB Plant) Manali Express Highway, Manali, Chennai – 600 068.
---------------------------------------	--

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/0415
Sampling Date	:29.09.2025	Sample description/Code	: Waste water
Sample received Date	:30.09.2025	Sample Location	: ETP outlet water
Sub-Contracting of Tests	Radioactivity	Sample Collected by	: Re Sustainability IWM Solutions Ltd

Sr.No	Parameters	Unit	Method	Result	TNPCLimits
1.	<u>Pesticides</u>				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)	-
	chlorpyrifos	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.	<u>Radioactivity material</u>				
	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-----



TEST REPORT

TC-11749

URL No:TC-117492500000748F

Test Report No: RSIWMSL /CON/25-26/09/0416

Sustainability

Page: 1 of 2

Discipline: Chemical

Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB Plant) Manali Express Highway, Manali, Chennai – 600 068.
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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/0416
Sampling Date	:29.09.2025	Sample description/Code	: Waste water
Sample received Date	:30.09.2025	Sample Location	: RO Permeate
Sub-Contracting of Tests	: NA	Sample Collected by	: Re Sustainability IWM Solutions Ltd

Sr.No	Parameters	Unit	Method	Result	TNPSB Limits
1	Colour	Hazen	APHA 24 th Edition 2120 B:2023	10	-
2	Odour	-	IS 3025 :Part 5 :2018	Agreeable	-
3	Temperature	°C	APHA 24 th Edition 2550 B:2023	25.6	40°C
4	pH value @ 25°C	-	APHA 24 th Edition 4500-H+ B:2023	6.05	5.5 – 9.0
5	Total Suspended solids	mg/L	APHA 24 th EDN 2540 D: 2023	BDL(DL:5.0)	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 24 th Edition 2540 C:2023	747	2100
8	Oil & grease	mg/L	APHA 24 th Edition 5520 B:2023	BDL(DL:5.0)	10
9	Ammonical Nitrogen as N	mg/L	APHA 24 th Edition 4500 NH3 - B & C	9.87	50
10	Chlorides as Cl	mg/L	APHA 24 th Edition 4500-Cl B:2023	255	1000
11	Copper as Cu	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.5)	3.0
12	Fluoride as F ⁻	mg/L	APHA 24 th Edition 4500- F B,D:2023	0.65	2.0
13	Free residual chlorine	mg/L	APHA 24 th Edition 4500-ClO2 B	BDL(DL:0.5)	1.0
14	Total Kjeldhal Nitrogen	mg/L	APHA 24 th Edition 4500-Norg C	11.2	100
15	Free ammonia	mg/L	APHA 24 th Edition 4500-NH3- F	0.94	5
16	Boron as B	mg/L	APHA 24 th Edition 4500- B B:2023	BDL(DL:1.0)	2.0
17	Nickel as Ni	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.2)	3.0
18	Sulphates as SO ₄	mg/L	APHA 24 th Edition 4500-SO4 E:2023	25.4	1000
19	Percent sodium	%	RSIWMSL/LAB_SOP 019	80.7	-
20	Residual sodium carbonate	meq/L	RSIWMSL/LAB_SOP-057	BDL(DL:1.0)	-

Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)



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: laboratorynwm1@resustainability.com



URL No:TC-1174925000000748F

Test Report No: RSIWMSL /CON/25-26/09/0416

Page: 2 of 2
Sustainability

S.No	Parameters	Unit	Method	Result	TNPCB Limits
21	Zinc as Zn	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.1)	1.0
22	Cadmium as Cd	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.1)	2.0
23	Lead as Pb	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.05)	0.1
24	Mercury as Hg	mg/L	APHA 24 th Edition 3112 B:2023	BDL(DL:0.005)	0.01
25	Total arsenic as As	mg/L	APHA 24 th Edition 3114 B:2023	BDL(DL:0.002)	0.2
26	Total chromium as Cr	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.05)	2.0
27	Selenium as Se	mg/L	APHA 24 th Edition 3114 C:2023	BDL(DL:0.005)	0.05
28	Hexavalent Chromium as Cr ⁺⁶	mg/L	APHA 24 th 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	BDL(DL:4.0)	30
30	Chemical Oxygen Demand	mg/L	APHA 24 th Edition 5220 B:2023	BDL(DL:10.0)	250
31	Total Cyanides as CN-	mg/L	APHA 24 th Edition 4500-CN C:2023	BDL(DL:0.01)	0.2
32	Phenolic Compounds as C ₆ H ₅ OH	mg/L	APHA 24 th Edition 5530 B & D:2023	BDL(DL:1.0)	1.0
33	Sulphide as S ²⁻	mg/L	APHA 24 th Edition 4500-S ²⁻ F:2023	BDL(DL:1.0)	2.0
34	Dissolved Phosphates as P	mg/L	APHA 24 th 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)	-

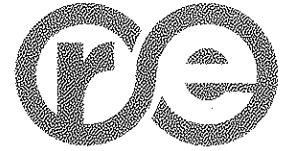
Note: BDL – Below Detection Limit, DL – Detection Limit

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)



TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0416

Discipline: Chemical

Group: Pollution & Environment

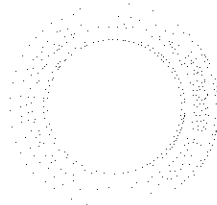
NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB Plant) Manali Express Highway, Manali, Chennai – 600 068.
--------------------------------	---

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/0416
Sampling Date	:29.09.2025	Sample description/Code	: Waste water
Sample received Date	:30.09.2025	Sample Location	: RO Permeate
Sub-Contracting of Tests	Radioactivity	Sample Collected by	: Re Sustainability IWM Solutions Ltd

Sr.No	Parameters	Unit	Method	Result	TNPCB Limits
1.	<u>Pesticides</u>				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)	-
	chlorpyrifos	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.	<u>Radioactivity material</u>				
	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-----



TEST REPORT

Sustainability

Page: 1 of 2

URL No:TC-117492500000749F

Test Report No: RSIWMSL /CON/25-26/09/0417

Discipline: Chemical

Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB 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/0417
Sampling Date :29.09.2025 Sample description/Code : Waste water
Sample received Date :30.09.2025 Sample Location : RO Reject
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 24 th Edition 2120 B:2023	25	-
2	Odour	-	IS 3025 :Part 5 : 2018	Agreeable	-
3	Temperature	°C	APHA 24 th Edition 2550 B:2023	25.8	40°C
4	pH value @ 25°C	-	APHA 24 th Edition 4500-H+ B:2023	6.81	5.5 – 9.0
5	Total Suspended solids	mg/L	APHA 24 th EDN 2540 D: 2023	5.2	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 24 th Edition 2540 C:2023	1972	2100
8	Oil & grease	mg/L	APHA 24 th Edition 5520 B:2023	BDL(DL:5.0)	10
9	Ammonical Nitrogen as N	mg/L	APHA 24 th Edition 4500 NH3 - B & C	18.42	50
10	Chlorides as Cl	mg/L	APHA 24 th Edition 4500-Cl B:2023	809	1000
11	Copper as Cu	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.5)	3.0
12	Fluoride as F ⁻	mg/L	APHA 24 th Edition 4500- F B,D:2023	0.72	2.0
13	Free residual chlorine	mg/L	APHA 24 th Edition 4500-CIO2 B	BDL(DL:0.5)	1.0
14	Total Kjeldhal Nitrogen	mg/L	APHA 24 th Edition 4500-Norg C	20.40	100
15	Free ammonia	mg/L	APHA 24 th Edition 4500-NH3- F	0.98	5
16	Boron as B	mg/L	APHA 24 th Edition 4500- B B:2023	BDL(DL:1.0)	2.0
17	Nickel as Ni	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.2)	3.0
18	Sulphates as SO ₄	mg/L	APHA 24 th Edition 4500-SO4 E:2023	504.9	1000
19	Percent sodium	%	RSIWMSL/LAB_SOP 019	77.7	-
20	Residual sodium carbonate	meq/L	RSIWMSL/LAB_SOP-057	BDL(DL:1.0)	-

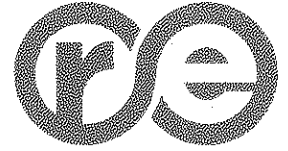
Verified by
(S.Shanmugam)

Authorized Signatory - Chemical
(S.Subba Reddy)

**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: laboratorynwm@resustainability.com

**Sustainability**
Page: 2 of 2

TC-11749

URL No:TC-117492500000749F

Test Report No: RSIWMSL /CON/25-26/09/0417

S.No	Parameters	Unit	Method	Result	TNPCB Limits
21	Zinc as Zn	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.1)	1.0
22	Cadmium as Cd	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.1)	2.0
23	Lead as Pb	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.05)	0.1
24	Mercury as Hg	mg/L	APHA 24 th Edition 3112 B:2023	BDL(DL:0.005)	0.01
25	Total arsenic as As	mg/L	APHA 24 th Edition 3114 B:2023	BDL(DL:0.002)	0.2
26	Total chromium as Cr	mg/L	APHA 24 th Edition 3111 B:2023	BDL(DL:0.05)	2.0
27	Selenium as Se	mg/L	APHA 24 th Edition 3114 C:2023	BDL(DL:0.005)	0.05
28	Hexavalent Chromium as Cr ⁺⁶	mg/L	APHA 24 th 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	7.2	30
30	Chemical Oxygen Demand	mg/L	APHA 24 th Edition 5220 B:2023	97.1	250
31	Total Cyanides as CN-	mg/L	APHA 24 th Edition 4500-CN C:2023	BDL(DL:0.01)	0.2
32	Phenolic Compounds as C ₆ H ₅ OH	mg/L	APHA 24 th Edition 5530 B & D:2023	BDL(DL:1.0)	1.0
33	Sulphide as S ²⁻	mg/L	APHA 24 th Edition 4500-S ²⁻ F:2023	BDL(DL:1.0)	2.0
34	Dissolved Phosphates as P	mg/L	APHA 24 th Edition 4500-P B & C:2023	0.25	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)



TEST REPORT

Test Report No: RSIWMSL /CON/25-26/09/0417

Discipline: Chemical

Group: Pollution & Environment

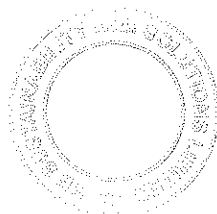
NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (LAB Plant) Manali Express Highway, Manali, Chennai – 600 068.
---------------------------------------	--


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/0417
Sampling Date	:29.09.2025	Sample description/Code	: Waste water
Sample received Date	:30.09.2025	Sample Location	: RO Reject
Sub-Contracting of Tests	Radioactivity	Sample Collected by	: Re Sustainability IWM Solutions Ltd

Sr.No	Parameters	Unit	Method	Result	TNPCL Limits
1.	<u>Pesticides</u>				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)	-
	chlorpyrifos	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.	<u>Radioactivity material</u>				
	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-----

Annual Water Audit Report

Tamilnadu Petroproducts Limited
LAB Plant



TAMILNADU PETROPRODUCTS LIMITED (TPL)
Manali Industrial Area
Taluk: Thiruvottiyur
District: Chennai
State: Tamil Nadu

2024-2025

By TPL-Internal Team

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1. INTRODUCTION

Internal water audit is conducted on the following aspects,

1. Water consumption for domestic and industrial applications
2. Sources of wastewater generation
3. Remediation measures to optimize and discharge wastewater generations within the industrial premises

Tamil Nadu Petroproducts Limited (TPL) is a joint venture promoted with equity participation by Tamil Nadu Industrial Development Corporation Limited (TIDCO) - wholly owned by the Government of Tamil Nadu and Southern Petrochemical Industries Corporation Ltd. (SPIC) & with remaining equity contributed by around 80,000 public shareholders. TPL is a listed company on Bombay Stock Exchange and National Stock Exchange. M/s. SPIC Limited has diverse interest ranging from Fertilizers, Petrochemicals & other services. TIDCO is a public financial institution engaged in promoting industries in the State of Tamil Nadu.

TPL was established in 1984 at Manali, Thiruvallur district in Tamil Nadu State to manufacture Linear Alkyl Benzene (LAB), an industrial intermediary chemical, which finds application in manufacture of detergents and cleaning agents.

TPL acquired its Heavy Chemicals Division (HCD) from SPIC in the year 2000, which manufactures Chloro Alkali comprising Caustic Soda & Chlorine, which are widely used industrial chemicals in Textile, Paper and Pulp, Soaps & Detergents and Aluminium industries in India.

TPL established its Propylene Oxide manufacturing facility in the year 2019, in the existing ECH plant, which is used as a key raw material in the manufacture of Polyol.

TPL commenced its Linear Alkyl Benzene (LAB) facility in 1987 with technology from UOP, USA. The LAB manufacturing facility is integrated with the production unit of intermediate Normal Paraffin.

2. DATA COLLECTION

Table 1: Details

1.	Name of the company/ Industry/ Unit & Address:	Tamil Nadu Petro products Limited (TPL) - LAB Plant 265 (Part), 266 (Part), Manali Industrial Area, Manali village, Thiruvottiyur Taluk, Chennai District, Tamil Nadu
2.	Managing Director	Mr. Senthil Kumar D
3.	Audit Period:	2024-2025
4.	Manufacturing details:	Manufacturing of LINEAR ALKYL BENZENE(LAB)
5.	No of Employees Staffs	344 Nos. (Including contract workers)

2.1. LAYOUT OF THE UNIT

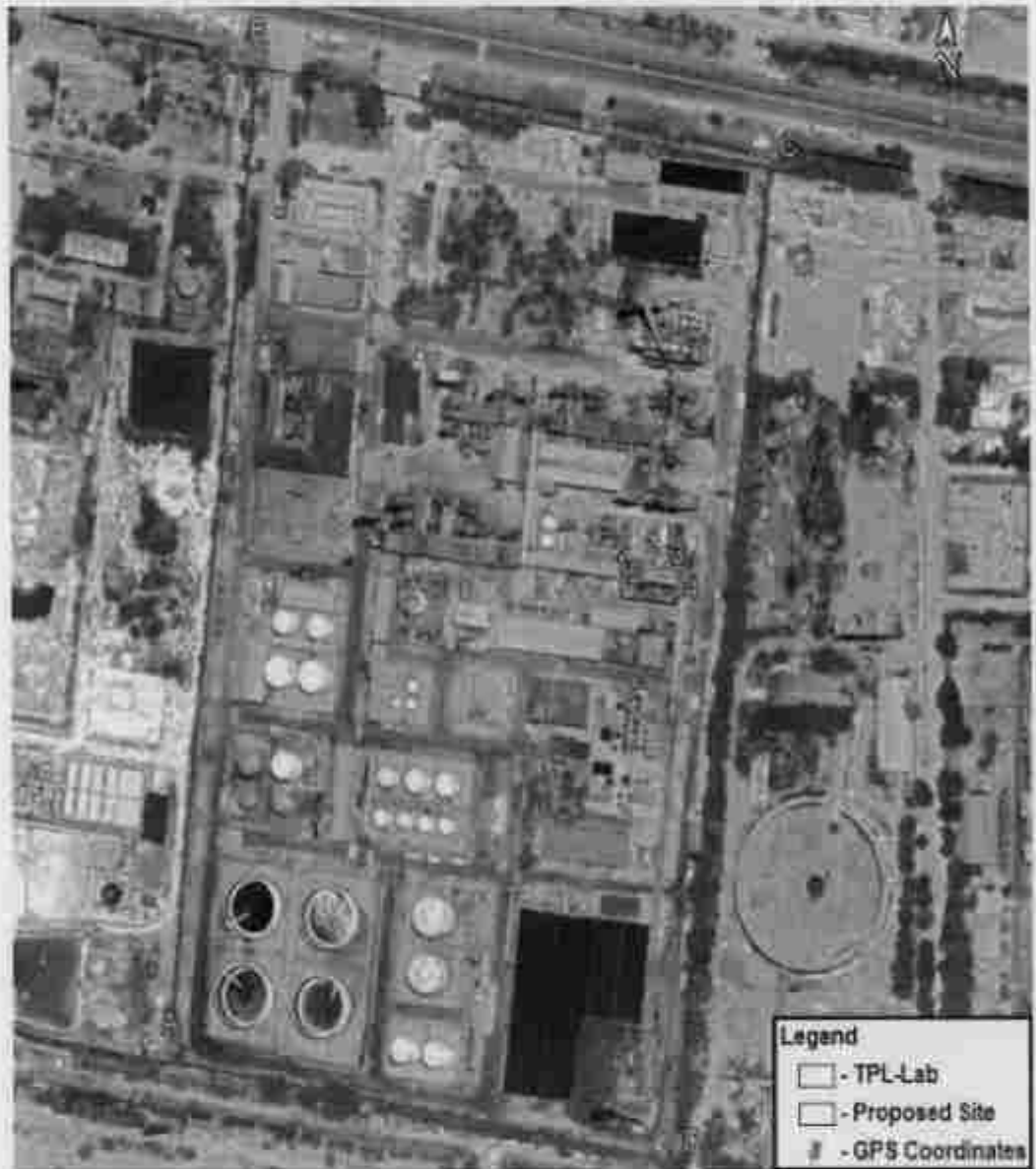


Figure 1: layout of the project

2.2. BUILT UP AREA DETAILS

Table 2: Extend land details

Extent of Land	Acres
a) Total area	40.0
b) Built up area	34.85
c) Solid waste storage / disposal area	1.0
d) Green Belt / Irrigation area	3.65
e) Vacant area	0.5

2.3. GREEN BELT AREA AVAILABLE

Table 3: Green Belt Area Details

Green Belt Detail	Area (in Acres)	%	Trees
GB (inside of plant Area)	3.65	9.125	3800
GB (outside of plant Area)	18.00	45.000	18000
Total Green Belt	21.65	54.125	21800

2.4. POWER REQUIREMENT

Table 4: Details of Power Requirement

Description	Unit	Existing	Proposed	After Expansion	Source
Power requirement	MW	7.5	2.5	10	Captive Generation

2.5. DG DETAILS WITH CAPACITY AND NOS.

Table 5: DG details

1	EMDG Set 1250 KVA
2	DG Set 7.0 MW
3	DG Set 7.0 MW

2.6. SOURCES OF WATER

a) CMWSSB -TTRO water 2039 KLD

2.7. WATER CONSUMPTION DETAILS (LIT / KL) / DAY:

Table 6: Water Consumption Details

PARTICULARS	EXISTING	EXPANSION
Source of Water - TTRO	2039	1170
WCI (Cooling and boiler feed)	1340	1025
WCII (Domestic)	60	40
WCIII (Process – Easily biodegradable)	639	105
WCIV (Process–Non easily biodegradable)	----	----

NOTE: Existing values updated as per CTO

2.8. EFFLUENT ARISING FROM THE INDUSTRY / KLD

Table 7: Details of Effluent Arising from The Industry / KLD

PARTICULARS	EXISTING	EXPANSION
Sewage	60	35
Trade Effluent	1164	180

2.9. EXISTING ETP /STP DETAILS IF ANY

SEWAGE TREATMENT PLANT

Table 8: Details of Sewage Treatment Plant

S. No	Name of the Treatment Unit	No. of Units	Dimensions (m)
1.	Collection Tank	01	11.5 X 7.8 X 4.0m
2.	Screen chamber	01	1.0 X 1.0 X 1.0m
3.	Aeration Tank	01	8.0 X 8.0 X 2.5m
4.	Clarifier-1	01	4.0 Dis X 2.5m
5.	Treated Water Tank	01	4.5 X 4.5 X 4.5 m
6.	Sludge Drying Bed	04	5.0 X 5.0 X 5.0m

Sewage Treatment Plant - Proposed

- Existing STP Capacity is adequate for treating the additional quantity of effluent generated from the proposed expansion.
- No changes in existing STP components.
- Treated sewage is utilized for Green Belt Development.

EXISTING ETP

Table 9: Existing ETP details

S. No	Name of the Treatment Unit	No. of Units	Dimensions in meters
1	Oily process water Stream Pit	01	14 x 2.25 x 5.5
2	Collection Tank	01	3.04 x 1.524 x 4
3	Tilted Plate Separator	01	3.84 x 1.2
4	API Separator	01	25 x 2.0 x 1.0
5	Recycle sump	01	2.05 x 2.8
6	Low-Rate Bio Filter	01	3.5 x 3
7	Settling Tank	01	2.8 x 6.2 x 3
8	Neutralizing pit	01	8.0 x 8.0 x 2.5
9	Primary Neutralizing pit	01	2.5 x 2.8 x 3
10	Secondary Neutralizing pit	01	2.5 x 2.8 x 2.1
11	Clarifier	01	4.0 x 2.5
12	Polishing Tank-17nos.	01	2.8 x 2.8 x 2.2
13	V Notch chamber-4nos.	02	1.2 x 2.8 x 1.2
14	Final mixing Chamber-8nos.	01	2.0 x 2.0 x 2.0
15	Sand Filter	01	1.4 x 3.2
16	Sludge Drying Beds	04	5.0 x 5.0 x 0.8
17	Guard Pond	01	57m x 30m x 3
	RO PLANT 300KLD		

RO PERMEATE WATER RECYCLED IN COOLING TOWER RO REJECT
REUSED IN ECH-PO PLANT PROCESS

3. Actual Water Consumption

3.1. Domestic Purposes

Table 10: Actual Water Consumption for domestic purposes

Water calculation as per NBC code		
Total number of employees / visitors	-	344
Water requirements as per NBC code (Domestic – 30, Flushing – 15)	-	45 LPCD
Total water requirements (Domestic)	344 * 45	15 KLD
Employees Kitchen & Canteen usage	10 KLD (Drinking water)	
Contractors' Canteen usage	10 KLD	
Total Domestic water requirement	35 KLD	

3.2. Water Balance Diagram

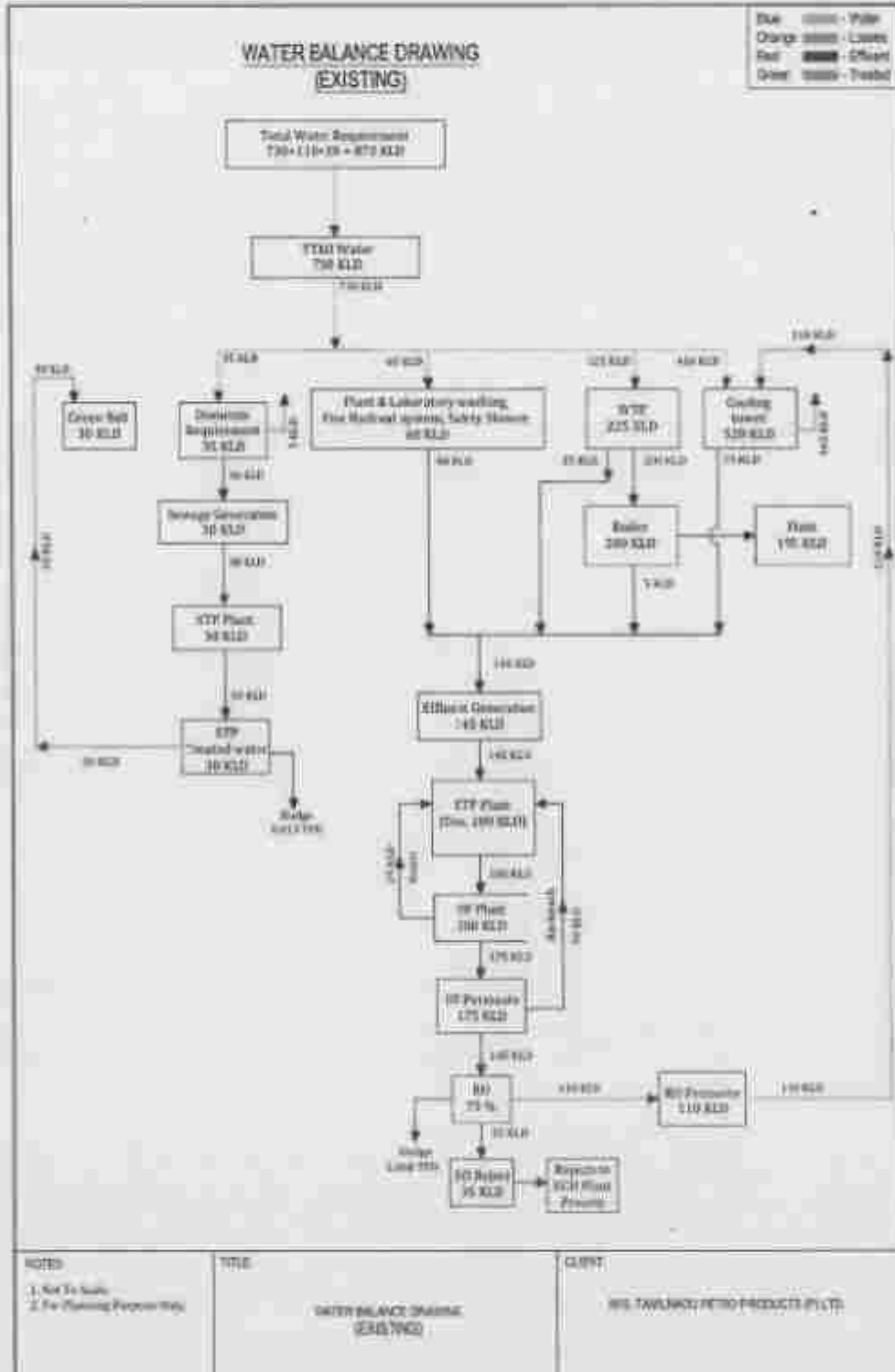


Figure 2: Water Balance Diagram

Table 11: Actual Total Water Requirement per day in TPL -LAB

S. No	Purpose	Quantity (KLD)	Percentage of total use
1	Domestic Water Requirement	13	2
2	Hand wash water	3.0	0.4
3	Kitchen vessels, washing & cooking	19	2.6
	Total Domestic Water	35	5
4	For water treatment plant (DM water generation)	109	15.2
5	Fire hydrant and plant safety shower	70	9.8
6	Water requirement for cooling tower	335	46.9
7	RO permeate for makeup CT	165	23.1
8	<i>Total water for plant usage</i>	679	95.0
	Total Water requirement	714.0	100

Total water requirement –714 KLD, *Note: As project Expansion is going on the consumption of water seems to be higher than the previous audit (657 KLD).

3.3. SEWAGE GENERATION DETAILS

Table 12: Sewage Generation Details

Domestic Sewage generation as per consent order	60 KLD
Domestic Sewage generation as per calculation	35 KLD

3.4. EFFLUENT GENERATION DETAILS

Table 13: Effluent Generation Details

Total Effluent Generation	155 KLD
---------------------------	---------



3.5. PHOTOGRAPH



API Oil Separator



Low Rate Bio Filter (LRBF)



Tilted Plate Separator



Polishing Tank



Primary & Secondary neutraliser



Clarifier



Figure 3: photograph of existing ETP units

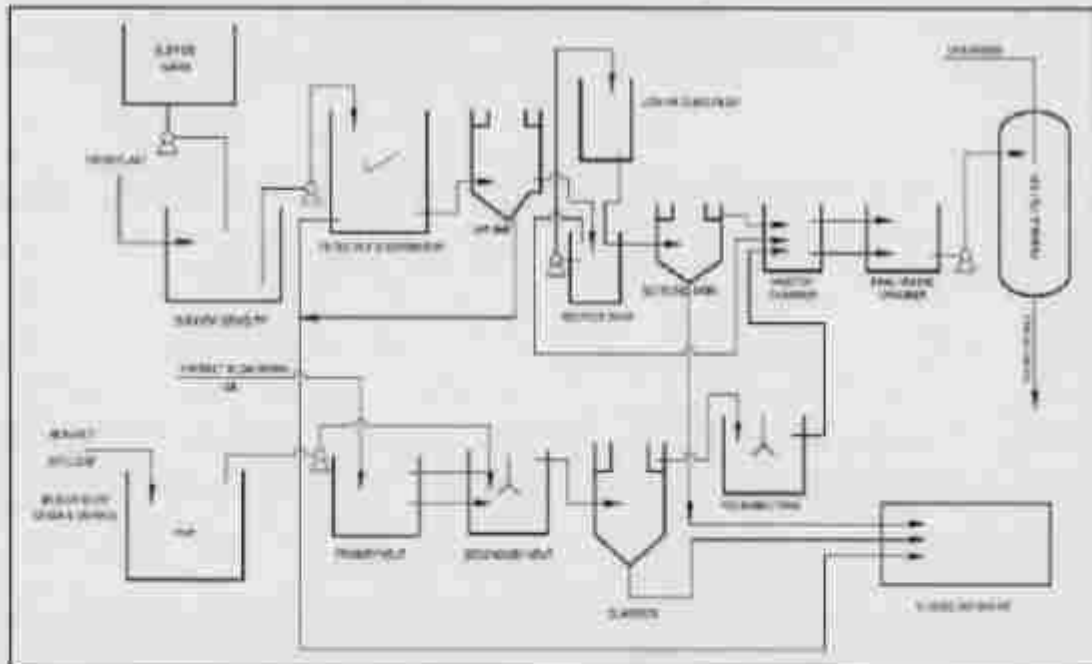


Figure 4: process flow diagram of existing ETP

3.6. ETP COMPONENTS & SIZE:

Table 14: Existing ETP Components & Size

S.No.	Type of Treatment	Instruments	Size (m)
1	Oily Effluent Treatment	Oily process water Stream Pit	14 x 2.25 x 5.5
		Collection Tank	3.04 x 1.524 x 4
		Tilted Plate Separator	3.84 x 1.2
		API Separator	25 x 2.0 x 1.0
		Recycle sump	2.05 x 2.8
		Low-Rate Bio Filter	3.5 x 3
		Settling Tank	2.8 x 6.2 x 3
2	Non-Oily Effluent Treatment	Neutralizing pit	8.0 x 8.0 x 2.5
		Primary Neutralizing pit	2.5x 2.8 x 3
		Secondary Neutralizing pit	2.5x 2.8 x 2.1
		Clarifier	4.0 x 2.5
		Polishing Tank – 17 nos.	2.8 x 2.8 x 2.2
3	Oily & Non-Oily Effluent Treatment	V-Notch chamber – 4 nos.	1.2 x 2.8 x 1.2
		Final mixing Chamber – 8 nos.	2.0 x 2.0 x 2.0
		Sand Filter	1.4 x 3.2
		Sludge Drying Beds – 4 nos.	5.0 x 5.0 x 0.8

4. RO PLANT

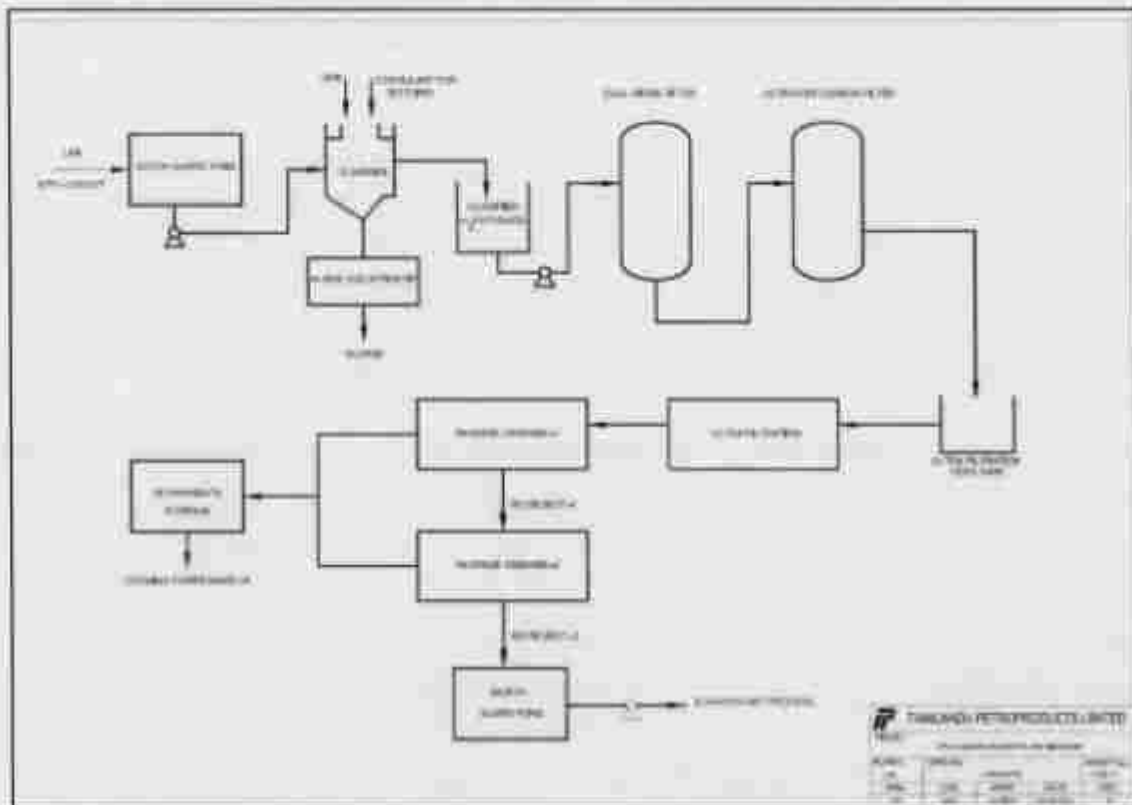


Figure 5: Flow Diagram of RO Plant



Figure 6: Photograph of Existing RO plant

RO CAPACITY - 300 KLD

EXISTING RO COMPONENTS & SIZE

Table 15: existing RO components & size

S. No.	Tank Name	Capacity (KL)
1.	HRSCC Feed Pond (south guard Pond)	3000
2.	Filter feed tank	15
3.	RO feed tank	15
4.	RO final product tank (RO-1& 2 Permeate tank)	15
5.	RO-2 feed tank (RO-1reject tank)	5
6.	HRSCC (High rate solid contact clarifier)	75
7.	Sludge pits (4*1)	4
8.	RO-2reject Pond (North guard Pond)	1000

RO MEMBRANE DETAILS

Table 16:RO membrane details

Description	Membrane	Quantity (Nos.)
RO-1	Thin Film Composite membrane (Brackish Membrane)	18
RO-2	Thin Film Composite membrane (sea water membrane)	6

5. SITE INSPECTION & SAMPLE TESTING

Sewage samples were collected, and the quality parameters were tested were tested as per IS 3025. The detailed list of sampling location and its quality characteristics are mentioned in section 5.1.




ANNUAL WATER AUDIT REPORT



5.1. TEST REPORTS



GREENEX ENVIRO LABORATORY PVT LTD
ISO 9001:2015 Certified Laboratory

TEST REPORT				
Sample Ref No: DECW054603		Report No: 34952		
CUSTOMER NAME: FAMILKADU PETROPRODUCTS LIMITED		Report Date: 10.04.2025		
ADDRESS: Manali Express Highway, Marol, Chennai - 600 056		Page: 1 of 5		
Sample Description: Effluent Water		Received On: 26.03.2025		
Sample Taken By / Date: SRIJITH DS/2025		Commenced On: 26.03.2025		
Customer's Reference: Xceler Water on 20.03.2025		Completed On: 05.04.2025		
Sample Mark: STP, tank				
Sl. No.	PARAMETERS	Unit	RESULTS	TEST METHOD
Discipline: Chemical				
Parameters				
1	Zinc	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
2	Lead	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
3	Alpha BHC	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
4	Beta BHC	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
5	Gamma BHC	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
6	Endrin	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
7	Chlordane	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
8	Delta BHC	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
9	Dieldrin	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
10	Chlormethrin	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
11	Endosulfan alpha	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
12	Endosulfan beta	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/0034
End of Page 1 for GREENEX ENVIRO LABORATORY PVT LTD				
 A. Karimullah - Technical Manager		 GREENEX ENVIRO LABORATORY PVT LTD		
		 K.H. Purnananda - Head of the Laboratory		

- NOTE: 1. Test results shown in this test report refers only to the tests stated.
 2. This test report shall not be reproduced anywhere except in full and in same format without the approval of the laboratory.
 3. Unless informed by the customer the test items will not be retained for more than 30 days from the date of issue of test report (exceptional for microbiology and wastewater for which retaining time 7 days).

NO: 102, First Floor GST Road, Pallavaram, Chennai - 600043
 PH - 644-22542325 / MOB - 9444411582 EMAIL ID: info@greenexenvirolab.com
 GSTIN: 33AALC09655H121 | CIN NO: U71201TN2024PTC167889

ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
ISO 9001:2015 Certified Laboratory

TEST REPORT ADDITIONAL SHEET				
Sample Ref No: CELAWUS4503			Report No: 545/22	
			Report Date: 05.04.2025	
			Page of 2 of 2	
Sl. No	PARAMETERS	Unit	RESULTS	TEST METHOD
13	Chloride Sulphate	mg/l	NDL (DL: 0.0001)	SOP/DEL/017/2024
14	Chloride	mg/l	NDL (DL: 0.0001)	SOP/DEL/015/2024
15	Gamma BNC	mg/l	NDL (DL: 0.0001)	SOP/DEL/013/2024
16	Stannous	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/2024
17	mg/DOO	mg/l	NDL (DL: 0.0001)	SOP/DEL/010/2024
18	mg/DOE	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/2024
19	mg/DO1	mg/l	NDL (DL: 0.0001)	SOP/DEL/013/2024
20	mg/DOO	mg/l	NDL (DL: 0.0001)	SOP/DEL/011/2024
21	mg/DOE	mg/l	NDL (DL: 0.0001)	SOP/DEL/012/2024
22	mg/DO1	mg/l	NDL (DL: 0.0001)	SOP/DEL/013/2024
23	Fluoride (methyl)	mg/l	NDL (DL: 0.0001)	SOP/DEL/010/2024
24	Fluoride	mg/l	NDL (DL: 0.0001)	SOP/DEL/010/2024

End of Page 2
BY GREENEX ENVIRO LABORATORY PVT LTD


 Verified by
A. Kalyan - Technical Manager




 Authorized by
E.P. Perumal - Head of the Laboratory

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 2. This test report shall not be reprinted anywhere except in full and in same format without the approval of the laboratory.
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 GSTIN: 33AALCG859K1Z1 ; CIN NO: U71200TN2024PTC167009


ANNUAL WATER AUDIT REPORT





GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT-ADDITIONAL SHEET				
Sample Ref No: GELWW04505			Report No: 34500 Report Date: 05.04.2025 Page 3 of 5	
Sl. No	PARAMETERS	Unit	RESULTS	TEST METHOD
22	Cd	mg/l	BDL (DL: 0.0001)	SOP/IGEL/0120004
23	Isoproturon	mg/l	BDL (DL: 0.0001)	SOP/IGEL/0120004
27	Metolachlor	mg/l	BDL (DL: 0.0001)	SOP/IGEL/0120004
28	Methyl Parathion	mg/l	BDL (DL: 0.0001)	SOP/IGEL/0120004
29	Methyl Parathion	mg/l	BDL (DL: 0.0001)	SOP/IGEL/0120004
30	Monocrotophos	mg/l	BDL (DL: 0.0001)	SOP/IGEL/0120004
31	Fluoride Sulphate	mg/l	BDL (DL: 0.0001)	SOP/IGEL/0120004
32	Fluoride Sulphate	mg/l	BDL (DL: 0.0001)	SOP/IGEL/0120004
33	Arsenic	mg/l	BDL (DL: 0.0001)	USEPA 200.9 Revision 5.4:1004
34	Cadmium	mg/l	BDL (DL: 0.01)	USEPA 200.9 Revision 5.4:1004
35	Chromium	mg/l	BDL (DL: 0.1)	USEPA 200.9 Revision 5.4:1004
36	Copper	mg/l	BDL (DL: 0.01)	USEPA 200.9 Revision 5.4:1004

End of Page 3
for GREENEX ENVIRO LABORATORY PVT LTD


 Verified By
A. Parvathidevi - Technical Manager




 Verified By
K.P. Periaswami - Head of the Laboratory

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 2. The test report shall not be reproduced anywhere except in full and in same format without the Approval of the laboratory.
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 GSTIN : 33AALCG8855K123 | CIN NO : U71298TN2024PFC167808

ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
ISO 9001:2015 Certified Laboratory

TEST REPORT-ADDITIONAL SHEET				
Sample Ref No: GELWWS4503			Report No: 445623	
			Report Date: 05/04/2025	
			Page of 4 of 5	
Sl. No.	PARAMETERS	Unit	RESULTS	TEST METHOD
37	Nitrate	mg/l	NDL (DL: 0.0)	USEPA 200.1 Revision 5.4: 1994
38	Selenium	mg/l	NDL (DL: 0.005)	USEPA 200.8 Revision 5.4: 1994
39	Zinc	mg/l	NDL (DL: 0.1)	USEPA 200.8 Revision 5.4: 1994
40	Ammonia as NH3	mg/l	4.00	IS: 3025 P. 34 1988 R. 2009
41	Anomalous Nitrogen as NH3-N	mg/l	54.0	IS: 3025 P. 34 1988 R. 2009
42	Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C	mg/l	265	IS: 3025 P. 44 1993 R. 2009
43	Biom as B	mg/l	5.48	IS: 3025 P. 37 2001
44	Sulfide as Na	mg/l	280	IS: 3025 P. 45 1993
45	Chemical Oxygen Demand(COD)	mg/l	781	IS: 3025 P. 36 2006
46	Chloride as Cl	mg/l	450	IS: 3025 P. 32 1988
47	Cyanide as CN	mg/l	NDL (DL: 0.01)	IS: 3025 P. 27 1988
48	Fluoride as F	mg/l	1.30	APHA 2478 (B) (2003) 4500 DF

End of Page 4
for GREENEX ENVIRO LABORATORY PVT LTD

A. Kavayal
Checked By
A. Kavayal- Technical Manager



K.P. Perinwar
Approved By
K.P. Perinwar- Head of the Laboratory

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ANNUAL WATER AUDIT REPORT



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TEST REPORT-ADDITIONAL SHEET				
Sample Ref No: OELNW054503			Report No: 34503 Report Date: 05.04.2025 Page 5 of 5	
Sl No	PARAMETERS	Unit	RESULTS	TEST METHOD
49	Free Residual Chlorine	mg/l	0.00 (D.L.O. 1)	IS 3025 P.26:2003
50	Hexavalent Chromium as Cr ^{VI}	mg/l	0.00 (D.L.O.0.000)	IS 3025 P.52:2003
51	Oil and grease	mg/l	90.0	IS 3025 P.39:2001
52	pH value @25°C	mg/l	8.50	IS 3025 P.11:2003
53	Fluoride Compound	mg/l	54	IS 3025 P.43:1992
54	Dissolved Phosphate as P	mg/l	0.85	APHA 24 ⁺ Edn 2002 4800 P-B-D
55	Residual Sodium Carbonate	mg/l	Nil	IS 11624:1986
56	Sulfate as SO ₄	mg/l	124	IS 3008 P.24:1980
57	Sulfide as S ₂	mg/l	1.50	IS 3025 P.25:1998
58	Temperature	°C	27.0	IS 3025 P.00:1994
59	Total dissolved solids @ 180°C	mg/l	1770	IS 3025 P.10:1984
60	Total Fixed Nitrogen as N	mg/l	340	IS 3025 P.54:1988 & 2010
61	Total suspended Solids @100°C	mg/l	340	IS 3025 P.17:1984

End of Page 5
for GREENEX ENVIRO LABORATORY PVT LTD

A. Karthikeyan
Checked By
A. Karthikeyan - Technical Manager



K.P. Prasanna
Authorized By
K.P. Prasanna - Head of the Laboratory




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ANNUAL WATER AUDIT REPORT



GREENIX ENVIRO LABORATORY PVT.LTD
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TEST REPORT					
Sample Ref No. GELWV054603			Report No. 54003		
CUSTOMER NAME		YAMLNADU PETROPRODUCTS LIMITED		Report Date 05.04.2025	
ADDRESS		Marul Express Highway, Marul, Chennai - 600 008		Page 1 of 5	
Sample Description		Effluent Water		Received On : 28.03.2025	
Sample Drawn By/Date		SELUG 03.2025		Commenced On : 28.03.2025	
Customer's Reference		Letter dated on 28.03.2025		Completed On : 05.04.2025	
Sample Mark		ETP - Outlet			
Sl No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
Discipline: Chemist					
Pesticides					
1	Atrachor	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
2	Azin	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
3	Alpha BHC	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
4	Atracins	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
5	Beta BHC	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
6	Butachor	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
7	Chlorpyrifos	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
8	Gamma BHC	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
9	Disodin	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
10	Deltamethrin	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
11	Endosulfan alpha	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
12	Endosulfan Beta	mg/l	BDL (DL:0.0001)	Absent	SOPGEL/0122024
End of Page 1					
for GREENIX ENVIRO LABORATORY PVT LTD					
 Verified By A. Kalyanraj - Technical Manager		 CHENNAI 600 043		 Authorized By K.P. Parthasarathi - Head of the Laboratory	

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 2. This test report shall not be reproduced anywhere except in full and in same format without the approval of the laboratory.
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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT-ADDITIONAL SHEET					
Sample Ref No: GEL/WW/54653				Report No: 34403 Report Date: 05.04.2025 Page 2 of 5	
Sl. No.	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNFCS	TEST METHOD
13	Hexachloro Buthene	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
14	Hepton	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
15	Gamma BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
16	Malthion	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
17	p,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
18	p,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
19	p,p'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
20	p,p'-DDD	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
21	p,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
22	p,p'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
23	Forathion-methyl	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024
24	Phorate	mg/l	BDL (DL:0.0001)	Absent	SOP/SEL/ 012/0024

End of Page 2
for GREENEX ENVIRO LABORATORY PVT LTD


 Verified By
 A. Kavyasree- Technical Manager




 Authorized By
 K. P. Perlaswathi- Head of the Laboratory

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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT-ADDITIONAL SHEET					
Sample Ref No: GEL/ANN/54800				Report No: 54803 Report Date: 05.04.2025 Page of 3 of 5	
Sl. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
25	Zn-D	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
26	Iron	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
27	Manganese	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
28	Methyl Parathion	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
29	Methyl Parathion	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
30	Monocrotophos	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
31	Phorate Sulfone	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
32	Phorate Sulfoxide	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
33	Arsenic	mg/l	BDL (DL:0.005)	0.2	USEPA 200.8 Revision 5.4.1994
34	Cadmium	mg/l	BDL (DL:0.01)	2.0	USEPA 200.9 Revision 5.4.1994
35	Chromium	mg/l	BDL (DL:0.1)	2.0	USEPA 200.8 Revision 5.4.1994
36	Copper	mg/l	BDL (DL:0.01)	3.0	USEPA 200.8 Revision 5.4.1994

End of Page 3

for GREENEX ENVIRO LABORATORY PVT LTD

A. Anand
Certified By
A. Anand - Technical Manager



K.P. Prasad
Certified By
K.P. Prasad - Head of the Laboratory

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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT-ADDITIONAL SHEET					
Sample Ref No: GELWWS45433			Report No: 54503 Report Date: 06/04/2023 Page of 4 of 5		
Sl. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
37	Nitrate	mg/l	NDL (DL 0.1)	3.0	USEPA 200.8 Revision 5.4 1994
38	Nitrate	mg/l	NDL (DL 0.025)	0.05	USEPA 200.8 Revision 5.4 1994
39	Zinc	mg/l	NDL (DL 0.1)	1.5	USEPA 200.8 Revision 5.4 1994
40	Ammonia as NH3	mg/l	0.2	5.0	IS: 3025 P:34 1983 R: 2009
41	Ammoniacal Nitrogen as NH3-N	mg/l	24.0	50	IS: 3025 P: 34 1983 R: 2009
42	Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C	mg/l	28.0	100	IS: 3025 P: 44 1983 R: 2009
43	Alum as Al	mg/l	NDL (DL 0.1)	2	IS: 3025 P: 67 2021
44	Iron as Fe	mg/l	190	-	IS 3025 P: 45 1993
45	Chemical Oxygen Demand(COD)	mg/l	160	250	IS 3025 P:58 2008
46	Chloride as Cl	mg/l	358	-	IS 3025 P:32 1983
47	Cyanide as CN	mg/l	NDL (DL 0.01)	0.2	IS 3025 P:27 1986
48	Fluorides as F	mg/l	0.90	15	APHA 2471 Edn: 2023 4500 DF

End of Page 4

BY GREENEX ENVIRO LABORATORY PVT LTD

A. Kavyasree
Verified By
A. Kavyasree- Technical Manager



K.P. Periaswami
Authorized By
K.P. Periaswami- Head of the Laboratory

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 2. This test report shall not be reproduce anywhere except in full and in same format without the approval of the laboratory.
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ANNUAL WATER AUDIT REPORT





GREENEX ENVIRO LABORATORY PVT LTD
ISO 9001:2015 Certified Laboratory

TEST REPORT-ADDITIONAL SHEET					
Sample Ref No: GE1/WWW4802				Report No: 54603 Report Date: 00/04/2005 Page of 5 of 5	
Sl. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
49	Free Residual Chlorine	mg/l	Nil	1	IS 3025 P-20 2001
50	Hexavalent Chromium as Cr ⁶⁺	mg/l	Nil	1	IS 3025 P-52 2003
51	Oil and grease	mg/l	Nil	20	IS 3025 P-30 2001
52	pH value @25°C	mg/l	7.50	5.5 to 9.0	IS 3025 P-11 2002
53	Phenolic Compounds	mg/l	BDL (DL - 0.01)	0.0	IS 3025 P-43 1980
54	Dissolved Phosphate as P	mg/l	BDL (DL - 0.1)	-	APHA 24 th Edn. 2003 4500 P-B-D
55	Residual Barium Carbonate	mEq/l	Nil	-	IS 11624 1988
56	Sulphate as SO ₄	mg/l	56.0	1000	IS 3025 P-24 1988
57	Sulphide as S ²⁻	mg/l	BDL (DL - 1.0)	5	IS 3025 P-29 1985
58	Temperature	°C	27.0	40° C at the point of discharge	IS 3025 P-06 1984
59	Total dissolved solids @ 180°C	mg/l	1060	-	IS 3025 P-16 1984
60	Total Residual Nitrogen as N	mg/l	86.0	100	IS 3025 P-34 1988 R:2000
61	Total suspended Solids @105°C	mg/l	78.0	100	IS 3025 P-17 1984

End of Page 5
for GREENEX ENVIRO LABORATORY PVT LTD


 Verified By
 A. Kavyasree- Technical Manager




 Authorized By
 K. P. Parasuram - Head of the Laboratory



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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT					
Sample Ref No: GELW54503			Report No: 54903		
CUSTOMER NAME: TAMILNADU PETROPRODUCTS LIMITED ADDRESS: Marol Express Highway, Marolli, Chennai - 600 052			Report Date: 05.04.2025 Page: 1 of 5		
Sample Description: RO Water Sample Drawn By /Date: GEL/25.03.2025 Customer's Reference: Letter dated on 26.03.2025 Sample Mark: RO-PERMEATE			Received On: 26.03.2025 Commenced On: 26.03.2025 Completed On: 05.04.2025		
Sl. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
Discipline: Chemical					
Pesticides					
1	Aldrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
2	Aldrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
3	Alpha BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
4	Arsenic	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
5	Beta BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
6	Butachlor	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
7	Chlorpyrifos	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
8	Delta BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
9	Dieldrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
10	Deltamethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
11	Endosulfan alpha	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
12	Endosulfan beta	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/2024
End of Page 1 for GREENEX ENVIRO LABORATORY PVT LTD					
 Verified By A. Kavyarasi - Technical Manager			  Authorized By K.P. Palaswami - Head of the Laboratory		

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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
ISO 9001:2015 Certified Laboratory

TEST REPORT-ADDITIONAL SHEET					
Sample Ref No: GEL/MS4903			Report No: 54903 Report Date: 05-04-2025 Page 2 of 5		
Sl. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
12	Endosulfan Sulfoxide	mg/l	NDL (DL: 0.0021)	Absent	SOP/GEL/012/0024
14	Cyfluthrin	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024
15	Quinalphos	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024
16	Malathion	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024
17	αp-DDD	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024
18	αp-DDE	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024
19	αp-DDT	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024
20	αp-OCB	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024
21	βp-DDE	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024
22	βp-DDT	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024
23	Permethrin-methal	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024
24	Phosam	mg/l	NDL (DL: 0.0001)	Absent	SOP/GEL/012/0024

End of Page 2
for GREENEX ENVIRO LABORATORY PVT LTD

A. Karayasekhar
Verified By
A. Karayasekhar - Technical Manager



K.P. Pragasam
Authorized By
K.P. Pragasam - Head of the Laboratory

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GSTIN : 33AALC00659K1Z1 | CIN NO : U71300TN2024PTC187899

ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
ISO 9001:2015 Certified Laboratory

TEST REPORT-ADDITIONAL SHEET					
Sample Ref No: GEL/W64903			Report No: 54603 Report Date: 05.04.2025 Page of 3 of 3		
Sl. No.	PARAMETERS	Unit	RESULTS	Tolerance Limits for Treated Effluent as per TNPCB	TEST METHOD
25	Zn-D	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/0120024
26	Aspartic acid	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/0120024
27	Malonate	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/0120024
28	Methyl Parathion	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/0120024
29	Methyl Parathion	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/0120024
30	Monocrothox	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/0120024
31	Phorate Sulfone	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/0120024
32	Phorate Sulfone	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/0120024
33	Arsenic	mg/l	NDL (DL:0.005)	Absent	USEPA 200.8 Revision 5.4/1994
34	Cadmium	mg/l	NDL (DL:0.01)	Absent	USEPA 200.8 Revision 5.4/1994
35	Chromium	mg/l	NDL (DL:0.1)	Absent	USEPA 200.8 Revision 5.4/1994
36	Copper	mg/l	NDL (DL:0.01)	Absent	USEPA 200.8 Revision 5.4/1994

End of Page 3

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A. K. Khandel
Verified By
A. K. Khandel - Technical Manager



K. P. Parthasarathy
Authorized By
K. P. Parthasarathy - Head of the Laboratory

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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT-ADDITIONAL SHEET					
Sample Ref No: GEL/VV04500			Report No: 54900 Report Date: 05.04.2025 Page of 4 of 5		
Sl. No.	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Effluent as per TNPCB	TEST METHOD
27	Nickel	mg/l	BDL (DL: 0.1)	Absent	USEPA 200.8 Revision 5.4-1994
28	Selenium	mg/l	BDL (DL: 0.005)	Absent	USEPA 200.8 Revision 5.4-1994
29	Zinc	mg/l	BDL (DL: 0.1)	Absent	USEPA 200.8 Revision 5.4-1994
40	Amonia as NH3	mg/l	BDL (DL: 0.1)	5	IS: 3025 P. 34 1988 R. 2006
41	Ammonical Nitrogen as NH3-N	mg/l	BDL (DL: 0.1)	50	IS: 3025 P. 34 1988 R. 2006
42	Bio-Chemical Oxygen Demand (BOD) 5 days @ 27°C	mg/l	BDL (DL: 0.1)	30	IS: 3025 P. 44 1993 R. 2000
43	Sulphur as S	mg/l	BDL (DL: 0.1)	2	IS: 3025 P. 57 2021
44	Sodium as Na	mg/l	13.0	-	IS: 3025 P. 45 1990
45	Chemical Oxygen Demand(COD)	mg/l	BDL (DL: 4.0)	250	IS: 3025 P. 61 2006
46	Chloride as Cl	mg/l	40.0	1000	IS: 3025 P. 52 1988
47	Cyanide as CN	mg/l	BDL (DL: 0.01)	0.2	IS: 3025 P. 27 1988
48	Fluorides as F	mg/l	BDL (DL: 0.1)	2	APHA 24 th Edn. 2023 4500 CF

End of Page 4

for GREENEX ENVIRO LABORATORY PVT LTD

 Verified By J. Kariyaran- Technical Manager		 Checked By K.P. Periasami- Head of the Laboratory
---	---	---

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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT.LTD
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TEST REPORT-ADDITIONAL SHEET					
Sample Ref No: DEL/WH5495				Report No: 549/03 Report Date: 06.04.2025 Page of 5 of 5	
Sl. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
48	Free Residual Chlorine	mg/l	BN(DL : 0.2)	-	IS 3025 P.26 2021
50	Hexavalent Chromium as Cr ⁶⁺	mg/l	BDL(DL : 0.05)	-	IS 3025 P.52 2023
51	Oil and grease	mg/l	BDL(DL : 0.1)	10	IS 3025 P.38 2021
52	pH value @25°C	mg/l	7.05	6.5 to 8.5	IS 3025 P.11 2022
53	Phenolic Compound	mg/l	Nil	1.0	IS 3025 P.43 1992
54	Dissolved Phosphate as P	mg/l	Nil	5.0	APHA 24 th Edn 2023 4500 P.B.D
55	Residual Sodium Carbonate	meq/L	Nil	NA	IS 11824 1995
56	Sulphate as SO ₄	mg/l	14.0	1000	IS 3025 P.24 1995
57	Sulphide as S ²⁻	mg/l	Nil	2	IS 3025 P.29 1995
58	Temperature	°C	27.0	40° C at the point of discharge	IS 3025 P.09 1994
59	Total dissolved solids @ 180°C	mg/l	118		IS 3025 P.16 1994
60	Total Kjeldahl Nitrogen as N	mg/l	Nil	100	IS 3025 P.34 1995 R.2006
61	Total suspended solids @105°C	mg/l	Nil	100	IS 3025 P.17 1994

End of Page 5

for GREENEX ENVIRO LABORATORY PVT LTD

<p style="text-align: center;"> Verified By A. Kavyasree- Technical Manager</p>		<p style="text-align: center;"> Authorized By K.P. Perikumar- Head of the Laboratory</p>
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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT				
Sample Ref No. GELW/56903			Report No. 56903	
CUSTOMER NAME TAMILNADU PETROPRODUCTS LIMITED			Report Date : 05.04.2025	
ADDRESS Manali Express Highway, Manali, Chennai - 600 088.			Page: 1 of 5	
Sample Description: Effluent Water			Received On: 26.03.2025	
Sample Drawn By /Date: GEL/26.03.2025			Commenced On: 26.03.2025	
Customer's Reference: Letter dated on 26.03.2025			Completed On: 05.04.2025	
Sample Mark: RO-REJECT				
Sl. No.	PARAMETERS	Unit	RESULTS	TEST METHOD
Discipline: Chemical				
Pesticides				
1	Aaachlor	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
2	Aldrin	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
3	Alpha BHC	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
4	Atrazine	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
5	Beta BHC	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
6	Butachlor	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
7	Chlorpyrifos	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
8	Delta BHC	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
9	Dieldrin	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
10	Deltamethrin	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
11	Endosulfan alpha	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
12	Endosulfan Beta	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
End of Page 1				
for GREENEX ENVIRO LABORATORY PVT LTD				
 Verified By A. Kaviyarasi - Technical Manager			 Authorized By K.P. Perazhavan - Head of the Laboratory	

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GSTIN - 33AALG0855K1Z1 | CIN NO - U71200TN2024PTC167899

ANNUAL WATER AUDIT REPORT





GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT-ADDITIONAL SHEET				
Sample Ref No: GELN56503			Report No :56503 Report Date 05.04.2025 Page of 2 of 5	
Sl. No	PARAMETERS	Unit	RESULTS	TEST METHOD
13	Endosulfan Sulfate	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
14	Ethion	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
15	Gamma BHC	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
16	Methion	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
17	o,p'-DDD	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
18	o,p'-DDE	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
19	o,p'-DDT	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
20	p,p'-DDD	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
21	p,p'-DDE	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
22	p,p'-DDT	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
23	Parathion-methyl	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
24	Phorate	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024

End of Page 2

for GREENEX ENVIRO LABORATORY PVT LTD


 Verified By
 A. Kavyasree - Technical Manager




 Authorized By
 K.P. Periswami - Head of the Laboratory

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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT-ADDITIONAL SHEET				
Sample Ref No: GEL/NI/500/03			Report No: 50003 Report Date: 05.04.2025 Page of 2 of 5	
Sl. No	PARAMETERS	Unit	RESULTS	TEST METHOD
25	2,4-D	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
26	Heptachlor	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
27	Melachlor	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
28	Methyl Parathion	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
29	Methyl Parathion	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
30	Monocrotophos	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
31	Phorate Sulfone	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
32	Phorate Sulfoxide	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024
33	Arsenic	mg/l	BDL (DL:0.005)	USEPA 200.8 Revision 5.4.1994
34	Cadmium	mg/l	BDL (DL:0.01)	USEPA 200.8 Revision 5.4.1994
35	Chromium	mg/l	1.20	USEPA 200.8 Revision 5.4.1994
36	Copper	mg/l	1.80	USEPA 200.8 Revision 5.4.1994

End of Page 2
for GREENEX ENVIRO LABORATORY PVT LTD

A. Kirishnan
Verified By
A. Kirishnan - Technical Manager



K. P. Periswami
Authorized By
K. P. Periswami - Head of the Laboratory

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ANNUAL WATER AUDIT REPORT



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TEST REPORT-ADDITIONAL SHEET

Sample Ref No: GEL/W/52003			Report No: 35003 Report Date: 05/04/2025 Page of 4 of 5	
Sl No	PARAMETERS	Unit	RESULTS	TEST METHOD
27	Nickel	mg/l	BDL (DL:0.1)	USEPA 200.8 Revision 5.4:1994
28	Selenium	mg/l	BDL (DL:0.005)	USEPA 200.8 Revision 5.4:1994
29	Zinc	mg/l	BDL (DL:0.1)	USEPA 200.8 Revision 5.4:1994
40	Ammonia as NH ₃	mg/l	BDL (DL:0.1)	IS:3025 P.34 1988 R:2009
41	Ammonical Nitrogen as Fe-O-N	mg/l	BDL (DL:0.1)	IS:3025 P.34 1988 R:2009
42	Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C	mg/l	BDL (DL:2.0)	IS: 3025 P. 44 1990 R. 2009
43	Boron as B	mg/l	0.55	IS: 3025 P. 57 2021
44	Sodium as Na	mg/l	480	IS 3025 P 45 1993
45	Chemical Oxygen Demand(COD)	mg/l	10.0	IS 3025 P 58 2006
46	Chloride as Cl	mg/l	1490	IS 3025 P 32 1988
47	Cyanide as CN	mg/l	BDL (DL:0.01)	IS 3025 P 27. 1986
48	Fluorides as F	mg/l	5.80	APHA 24 th Edn :2023 4500 DF

End of Page 4

for GREENEX ENVIRO LABORATORY PVT LTD

A. Kaviyaras
Verified By
A.Kaviyaras - Technical Manager



K.P. Periasami
Authorized By
K.P. Periasami - Head of the Laboratory

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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT-ADDITIONAL SHEET

Sample Ref No: GELAV50003			Report No: 55003 Report Date: 05/04/2025 Page of 5 of 5	
Sl. No	PARAMETERS	Unit	RESULTS	TEST METHOD
49	Free Residual Chlorine	mg/l	BDL(DL : 0.2)	IS 3025 P.26 2021
50	Hexavalent Chromium as Cr6+	mg/l	BDL(DL : 1.0)	IS 3025 P.52 2003
51	Oil and greases	mg/l	BIX(DL : 1.0)	IS 3025 P.39 2021
52	pH value @20°C	mg/l	6.90	IS 3025 P.11 2022
53	Phenolic Compound	mg/l	BDL(DL : 0.1)	IS 3025 P.43 1992
54	Dissolved Phosphate as P	mg/l	0.50	APHA 24 th Edn 2023 4500 P-B.D
55	Residual Sodium Carbonate	mEq/L	BDL(DL : 1.0)	IS 11624 1986
56	Sulphate as SO4	mg/l	570	IS 3025 P.24 1986
57	Sulphide as S2	mg/l	BDL(DL : 1.0)	IS 3025 P.29 1986
58	Temperature	°C	27.0	IS 3025 P.09 1984
59	Total dissolved solids @ 180°C	mg/l	4380	IS 3025 P.16 1984
60	Total Kjeldahl Nitrogen as N	mg/l	8.0	IS:3025 P.34 1988 R 2009
61	Total suspended Solids @105°C	mg/l	18.0	IS 3025 P.17 1984

End of Page 5

for GREENEX ENVIRO LABORATORY PVT LTD

A. Kavyarasi
 Signed By
 A.Kavyarasi- Technical Manager



K.P. Parthaswami
 Authorized By
 K.P. Parthaswami - Head of the Laboratory




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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT					
Sample Ref No: CEL/W05303			Report No:	56363	
CUSTOMER NAME		TAMILNADU PETROPRODUCTS LIMITED		Report Date:	05.04.2025
ADDRESS		Maroli Express Highway, Maroli, Chennai - 600 095		Page:	1 of 3
Sample Description:		Effluent Water		Received On:	20.02.2025
Sample Drawn By/Date:		GEL/20.02.2025		Commenced On:	20.02.2025
Customer's Reference:		Letter dated on 20.02.2025		Completed On:	05.04.2025
Sample Mark:		STP inlet			
Sl No	PARAMETERS	Unit	RESULTS	TEST METHOD	
Discipline: Chemical					
Pesticides					
1	Alachlor	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
2	Azinphos	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
3	Azoxystrobin	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
4	Azinphos	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
5	Beta BHC	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
6	Deltamethrin	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
7	Chlorpyrifos	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
8	Delta BHC	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
9	Imidacloprid	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
10	Deltamethrin	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
11	Endosulfan alpha	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
12	Endosulfan Beta	mg/l	BDL (DL:0.0001)	SOP/GEL/012/2024	
End of Page 1 for GREENEX ENVIRO LABORATORY PVT LTD					
 Verified By A. Kalyan - Technical Manager				 Authorized By K.P. Periaswami - Head of the Laboratory	

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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT-ADDITIONAL SHEET

Sample Ref No: OELW/553/00				Report No: 583/03 Report Date: 05/04/2025 Page of 2 of 5.
Sl No	PARAMETERS	Unit	RESULTS	TEST METHOD
13	Endosulfan sulfate	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
14	Ethion	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
15	Gamma BHC	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
16	Methion	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
17	o,p'-DDD	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
18	o,p'-DDE	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
19	o,p'-DDT	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
20	p,p'-DDD	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
21	p,p'-DDE	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
22	p,p'-DDT	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
23	Parathion-methyl	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
24	Phorate	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024

End of Page
for GREENEX ENVIRO LABORATORY PVT LTD

A. Kavyasree
Checked By

A. Kavyasree - Technical Manager



K. P. Periaswami
Authorized By

K. P. Periaswami - Head of the Laboratory

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ANNUAL WATER AUDIT REPORT



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TEST REPORT-ADDITIONAL SHEET

Sample Ref No: GEL/19/56303			Report No: 56303	
			Report Date: 05/04/2025	
			Page of 3 of 5	
Sl. No	PARAMETERS	Unit	RESULTS	TEST METHOD
25	ZnD	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
26	Naphthalene	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
27	Masson	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
28	Methyl Parathion	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
29	Methyl Parathion	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
30	Monocrotophos	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
31	Phorate Sulfoxide	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
32	Phorate Sulfoxide	mg/l	BDL (DL:0.0001)	SOP/IGEL/012/2024
33	Arsenic	mg/l	BDL (DL:0.005)	USEPA 200.8 Revision: 5.4.1994
34	Calcium	mg/l	BDL (DL:0.01)	USEPA 200.8 Revision: 5.4.1994
35	Chromium	mg/l	BDL (DL:0.0001)	USEPA 200.8 Revision: 5.4.1994
36	Copper	mg/l	BDL (DL:0.01)	USEPA 200.8 Revision: 5.4.1994

End of Page 2

For GREENEX ENVIRO LABORATORY PVT LTD

A. Karayaras
Verified By
A. Karayaras, Technical Manager



K. P. Periaswami
Authorized By
K. P. Periaswami - Head of the Laboratory

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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT-ADDITIONAL SHEET

Sample Ref No: GELW56303			Report No: 56303 Report Date: 05.04.2025 Page 4 of 5	
Sl. No	PARAMETERS	Unit	RESULTS	TEST METHOD
37	Nickel	mg/l	BDL (DL: 0.1)	USEPA 200.8 Revision 3.4.1994
38	Selenium	mg/l	BDL (DL: 0.005)	USEPA 200.8 Revision 3.4.1994
39	Zinc	mg/l	BDL (DL: 0.1)	USEPA 200.8 Revision 3.4.1994
40	Ammonia as NH ₃	mg/l	1.50	IS: 3025 P. 34 1988 R. 2009
41	Ammoniac Nitrogen as NH ₃ -N	mg/l	58.0	IS: 3025 P. 34 1988 R. 2009
42	Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C	mg/l	265	IS: 3025 P. 44 1993 R. 2009
43	Boron as B	mg/l	BDL (DL: 0.1)	IS: 3025 P. 57 2021
44	Sodium as Na	mg/l	180	IS: 3025 P. 45 1993
45	Chemical Oxygen Demand (COD)	mg/l	290	IS: 3025 P. 56 2006
46	Chloride as Cl	mg/l	490	IS: 3025 P. 32 1988
47	Cyanide as CN	mg/l	BDL (DL: 0.01)	IS: 3025 P. 27 1986
48	Fluorides as F	mg/l	1.40	APHA 24 th Edn 2023 4500 DF

End of Page 4

for GREENEX ENVIRO LABORATORY PVT LTD

A. K. Srinivasan
Verified By
A. K. Srinivasan - Technical Manager



K. P. Prasad
Authorized By
K. P. Prasad - Head of the Laboratory

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TEST REPORT-ADDITIONAL SHEET				
Sample Ref No: GEX/W063/15			Report No: 56302 Report Date: 05/04/2025 Page 2 of 5 of 5	
Sl. No.	PARAMETERS	UNIT	RESULTS	TEST METHOD
48	Free Residual Chlorine	mg/l	NDL (DL: 0.0001)	IS 3025 P 26 2002
50	Hexavalent Chromium as Cr ⁶⁺	mg/l	NDL (DL: 0.005)	IS 3025 P 52 2003
51	Oil and grease	mg/l	20 G	IS 3025 P 39 2002
52	pH value @25°C	mg/l	7.06	IS 3025 P 11 2002
53	Phenolic Compound	mg/l	NDL (DL: 0.01)	IS 3025 P 43 1992
54	Dissolved Phosphate as P	mg/l	1.20	APHA 24 th Edn. 2003 4500 P-R D
55	Residual Sodium Carbonate	mg/L	Nil	IS: 11824 1996
56	Sulfate as SO ₄	mg/l	123	IS 3025 P 24 1999
57	Sulfide as S ²⁻	mg/l	1.80	IS 3025 P 29 1988
58	Temperature	°C	27.0	IS 3025 P 06 1984
59	Total dissolved solids @ 180°C	mg/l	1530	IS 3025 P 16 1984
60	Total Kjeldahl Nitrogen as N	mg/l	300	IS 3025 P 34 1988 R 2003
61	Total suspended solids @105°C	mg/l	180	IS 3025 P 17 1984

End of Page 2

for GREENEX ENVIRO LABORATORY PVT LTD

A. K. Kulkarni
Verified By
A. Kulkarni - Technical Manager



R. P. Peraswami
Authorized By
R. P. Peraswami - Head of the Laboratory

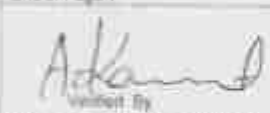


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ANNUAL WATER AUDIT REPORT



GREENEX ENVIRO LABORATORY PVT LTD
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TEST REPORT					
Sample Ref No: QELW/56403			Report No: 56403		
CUSTOMER NAME		TAMILNADU PETROPRODUCTS LIMITED		Report Date: 05.04.2025	
ADDRESS		Maruti Express Highway, Maruti, Chennai - 600 058		Page: 1 of 5	
Sample Description: Effluent Water		Received On: 20.03.2025		Commenced On: 20.03.2025	
Sample Drawn By/Date: GEL/20.02.2025		Customer's Reference: Letter dated on 20.03.2025		Completed On: 05.04.2025	
Sample Mark: STP Outlet					
Sl. No.	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
Discipline: Chemical					
Pesticides					
1	Azinphos	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
2	Azinth	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
3	Alpha BHC	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
4	Proprate	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
5	Delta BHC	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
6	Gamma BHC	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
7	Chlorpyrifos	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
8	Delta BHC	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
9	Cyfluthrin	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
10	Octamethrin	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
11	Endosulfan alpha	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
12	Endosulfan beta	mg/l	NDL (DL:0.0001)	Absent	SOP/DEL/012/2024
End of Page 1					
BY GREENEX ENVIRO LABORATORY PVT LTD					
 Verified By A. Kavyasree - Technical Manager				 Authorized By K. P. Parasuram - Head of the Laboratory	

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ISO 9001:2015 Certified Laboratory

TEST REPORT-ADDITIONAL SHEET

Sample Ref No: GEL/W/004/03			Report No: 004/03 Report Date: 05.04.2025 Page of 2 of 3		
Sl. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
13	Endosulfan Sulfate	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
14	Ethion	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
15	Gamma BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
16	Malathion	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
17	p,p'-DDD	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
18	p,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
19	p,p'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
20	p,p'-DDD	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
21	p,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
22	p,p'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
23	Parathion-methyl	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024
24	Phorate	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/012/0024

for GREENEX ENVIRO LABORATORY PVT LTD


Verified By
A. Kalyanasundhar - Technical Manager




Authorized by
K.P. Parasuraman - Head of the Laboratory

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TEST REPORT-ADDITIONAL SHEET					
Sample Ref No: GEL/W50402			Report No: 56402 Report Date: 05/04/2025 Page of 3 of 5		
Sl. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
25	140	mg/l	NDL (DL 0.0001)	Absent	SOP/GEL/012/2024
26	Isoproturon	mg/l	NDL (DL 0.0001)	Absent	SOP/GEL/012/2024
27	Metolason	mg/l	NDL (DL 0.0001)	Absent	SOP/GEL/012/2024
28	Methyl Parathion	mg/l	NDL (DL 0.0001)	Absent	SOP/GEL/012/2024
29	Methyl Parathion	mg/l	NDL (DL 0.0001)	Absent	SOP/GEL/012/2024
30	Monochlorophos	mg/l	NDL (DL 0.0001)	Absent	SOP/GEL/012/2024
31	Phosphate Sulfate	mg/l	NDL (DL 0.0001)	Absent	SOP/GEL/012/2024
32	Phosphate Sulfate	mg/l	NDL (DL 0.0001)	Absent	SOP/GEL/012/2024
33	Arsenic	mg/l	NDL (DL 0.005)	Absent	USEPA 200.8 Revision 5.4/1994
34	Cadmium	mg/l	NDL (DL 0.01)	Absent	USEPA 200.8 Revision 5.4/1994
35	Chromium	mg/l	NDL (DL 0.0001)	Absent	USEPA 200.8 Revision 5.4/1994
36	Copper	mg/l	NDL (DL 0.01)	Absent	USEPA 200.8 Revision 5.4/1994

for GREENEX ENVIRO LABORATORY PVT LTD





A. Kavayakshi - Technical Manager
K.P. Parthasarathy - Head of the Laboratory

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ANNUAL WATER AUDIT REPORT



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TEST REPORT ADDITIONAL SHEET

Sample Ref No: GEL/WS/000			Report No: 06402 Report Date: 09/04/2025 Page: 4 of 5		
Sl. No.	PARAMETERS	UNIT	RESULTS	Tolerance limits for Treated Effluent as per TNPCB	TEST METHOD
37	Metal	mg/l	NCL (DL 0.1)	Absent	USEPA 200.8 Revision 5.4.1004
38	Selenium	mg/l	NCL (DL 0.005)	Absent	USEPA 200.8 Revision 5.4.1004
39	Zinc	mg/l	NCL (DL 0.1)	Absent	USEPA 200.8 Revision 5.4.1004
40	Ammonia as NH ₃	mg/l	0.50	-	IS 3025 P.34 1988 R.2009
41	Ammonical Nitrogen as NH ₃ -N	mg/l	0.0	-	IS 3025 P.34 1988 R.2009
42	Bio-Chemical Oxygen Demand (BOD) 5 days @ 20°C	mg/l	2.0	20	IS 3025 P.44 1993 R.2009
43	Nitron as N	mg/l	NCL (DL 0.1)	-	IS 3025 P.57 2001
44	Carbon as C	mg/l	20.0	-	IS 3025 P.40 1981
45	Chemical Oxygen Demand(COD)	mg/l	20.0	50	IS 3025 P.58 2008
46	Chloride as Cl ⁻	mg/l	455	-	IS 3025 P.32 1988
47	Cyanide as CN ⁻	mg/l	NCL (DL 0.01)	0.2	IS 3025 P.27 1988
48	Fluoride as F ⁻	mg/l	1.20	2.0	APHA 24 th Edn 2023 4500 DF
End of Page GREENEX ENVIRO LABORATORY PVT LTD					
 Checked By K. Vinayak - Technical Manager				 Authorized By K.P. Periaswami - Head of the Laboratory	

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TEST REPORT ADDITIONAL SHEET

Sample Ref No: GELW096463			Report No: 59423		
			Report Date: 05/04/2025		
			Page of 5 of 5		
Sl No.	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Effluent as per TNPCB	TEST METHOD
45	Free Residual Chlorine	mg/l	BDL (DL: 0.2)	-	IS 3025 P-26:2021
52	Hexavalent Chromium as Cr ⁶⁺	mg/l	BDL (DL: 0.0001)	-	IS 3025 P-32:2003
31	Oil and grease	mg/l	BDL (DL: 1.0)	10	IS 3025 P-36:2021
52	pH value @25°C	mg/l	7.87	8.50 to 8.50	IS 3025 P-11:2022
53	Phenolic Compound	mg/l	BDL (DL: 0.01)	1.0	IS 3025 P-43:1992
54	Dissolved Phosphate as P	mg/l	Nil	-	APHA 247, Eqn 2023 4530 P-B-D
55	Residual Sodium Carbonate	mg/L	Nil	NA	IS 11024:1986
56	Sulphate as SO ₄	mg/l	124	-	IS 3025 P-24:1996
57	Sulphide as S ²⁻	mg/l	Nil	-	IS 3025 P-28:1996
58	Temperature	°C	27.0	40° C at the point of discharge	IS 3025 P-09:1984
59	Total dissolved solids @ 180°C	mg/l	1570	-	IS 3025 P-18:1984
60	Total Kjeldahl Nitrogen as N	mg/l	24.0	-	IS 3025 P-34:1985 (I:2000)
61	Total suspended solids @ 105°C	mg/l	4.0	30	IS 3025 P-17:1984

End of Page 5

By GREENEX ENVIRO LABORATORY PVT LTD


Verified By
A. Karayyalan - Technical Manager




Authorized By
K. P. Parthasarathy - Head of the Laboratory

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5.2. FIELD OBSERVATIONS AND WATER QUALITY ANALYSIS

Table 17: Water Quality Analysis

SAMPLING LOCATIONS	pH	TDS (IN mg/L)	REMARKS
TTRO	8.8	980.0	<ul style="list-style-type: none"> • Clear liquid is observed in the TTRO water reservoir. • Since the TTRO water quality conductivity is found to be more >500, the water treatment plant regeneration drain generated more
FIRE WATER	8.8	980.0	<ul style="list-style-type: none"> • Fire water storage tank is to be cleaned annually/during shutdown to avoid sludge accumulation. • Ensure that suction and delivery lines remain free from scaling or sediment.
WTP OUTLET	8.9	16.0	<ul style="list-style-type: none"> • Average TDS of WTP outlet is 16.0 ppm which is within the permissible limit • The effluent (regeneration drain) from WTP is to be treated in ETP through Neutralization Pit and followed by Reverse Osmosis. Before treatment in RO plant, removal of TSS through sand filter and carbon filter followed with Ultra Filtration and regular Hypo dosing continue to ensure.

ANNUAL WATER AUDIT REPORT



<p>BOILER BLOW DOWN WATER</p>		<p>10.5</p>	<p>2926</p>	<ul style="list-style-type: none"> • Water shall be routed to the Effluent Treatment Plant (ETP), followed by Reverse Osmosis (RO) for effective TDS reduction. • Prior to RO, removal of Total Suspended Solids (TSS) through dual media filtration (sand + carbon) is required. • Ultra Filtration (UF) should follow to reduce finer particulates and organic load. • Continuous and optimized hypochlorite (hypo) dosing must be ensured to control microbial growth and prevent RO membrane fouling.
<p>COOLING TOWER BLOW DOWN</p>		<p>6.3</p>	<p>3271.0</p>	<ul style="list-style-type: none"> • This water is to be treated in ETP & followed by Reverse Osmosis system for removal of TDS of 3271 ppm. Before treatment in RO plant, removal of TSS through sand filter and carbon filter • Continuous hypo dosing should be applied to maintain biological stability.
<p>ETP OUTLET</p>		<p>7.93</p>	<p>1060.0</p>	<ul style="list-style-type: none"> • The presence of Total Suspended Solids (TSS) is 78.0 ppm which is though within the permissible limit (< 100ppm) it can be further treated through sand filter and Carbon Filter for removal of TSS. • The BOD 28.0 ppm and COD 190.0 ppm presence ETP treated water is within the acceptable limit, further treatment is required to recycle the treated water by using of sand filter and carbon filter with Ultra Filtration as pre-treatment for processing in RO system to avoid fouling on the membranes. • Please ensure the sand and carbon filter media are replaced periodically. • This ETP outlet water has a TDS of 1060.0 ppm and is to be treated with Suitable RO systems with optimum recovery for reuse.

ANNUAL WATER AUDIT REPORT



<p>RO PERMEATE</p>	<p>7.05</p>	<p>118.0</p>	<ul style="list-style-type: none"> • The presence of Total Dissolved Solids (TDS) is 118.0 ppm which is better than TRO water TDS. • suitable for use as Boiler Feed Water and Cooling Tower makeup. • Recommended as feed water to the DM Plant to improve output efficiency and reduce regeneration frequency, thereby minimizing chemical effluent generation. • Currently utilized for Cooling Tower makeup to optimize water reuse and reduce freshwater dependency.
<p>RO REJECT</p>	<p>6.14</p>	<p>4830.0</p>	<ul style="list-style-type: none"> • The reuse of RO reject water can be assessed i.e., by further treatment in additional RO / by considering economic feasibility for treating final RO reject via MEE and ATFD - ZLD. • Presently this RO reject water is being utilized in PO plant process thus achieving Zero Liquid Discharge.
<p>STP OUTLET</p>	<p>7.87</p>	<p>1520.0</p>	<ul style="list-style-type: none"> • The inlet quality of water has a Total Suspended Solids (TSS) of 160.0 ppm shall be treated through the filtering systems available in the STP plant. • The BOD 285.0 ppm and COD 290.0 ppm are reported in STP inlet water shall be treated in available Sewage Treatment Plant Comprising Aeration and Hypo Dosing along with clarifier systems • This STP treated water having TSS 4.0ppm and TDS 1520.0 ppm can be used for gardening / Floor washing and having parameters within specified limits. • BOD and COD in the treated water is observed to be within the limits and shall be used for Gardening and floor washing purposes.

5.3. Observations

Internal audit is conducted on 04th April 2025 for the Year of 2024-2025 by Environment Department & TS Department of TPL, Water samples collected and tested in internal laboratory and M/s. Greenex Enviro Laboratory.



6. Remedial Actions

Table 18: Proposed Remedial Actions

S. No	Areas / Point of use	Remarks	Actions / Recommendations
1	Water Usage	For Canteen vessel washing	<ul style="list-style-type: none"> • Grey water can be treated separately by implementing third party study/method and treated water from this system can be utilized for green belt management, which will reduce the consumption of raw water • Providing jet spray type arrangement can reduce the water usage especially in utensil cleaning. • Schedule regular maintenance of valves and taps to avoid leaks and drips. • Proposed to provide separate flow meters to monitor and regulate the water usage at the canteen area. • Canteen terrace civil water tank overflow shall be avoided by fixing suitable control devices.
2	Cooling Tower evaporation loss/makeup water	<p>More Water loss in cooling tower More evaporation of water in CT found. Poor makeup water leading to higher blow down.</p>	<ul style="list-style-type: none"> • To control over the evaporation loss incoming water, ETP RO permeate can be taken as topping up with optimum TDS which will increase the COC • Monitor and maintain optimum TDS levels in makeup water through regular testing. • Install an automatic slowdown controller to manage discharge based on real-time conductivity

ANNUAL WATER AUDIT REPORT

3	Boiler consumption/condensate recovery	Steam leakages near furnace area and steam trap points	<p>Reduce Steam consumption by</p> <ul style="list-style-type: none"> • Pipe insulation patch-up work shall be carried out periodically • Steam consumption can be reduced by ensuring proper insulation in the piping network. • Steam line flange leakage and Steam trap leakages shall be attended.
4	DM plant regeneration	Higher DM water consumption to meet Steam demand.	<p>Reduced DM water consumption in line with reduced steam demand</p> <ul style="list-style-type: none"> • The continue follow up with CMWSSB is needed for optimization on quality of TTRO, Subsequently the load of DM plant shall be reduced. • Ensure Possibility /economic feasibility for ETP RO permeate as feed to DM Plant.
5	Reuse of water	RO recovery/ performance	<ul style="list-style-type: none"> • RO plant for treating treated effluent & percentage of recovery shall be relooked for any improvement to reduce the raw water consumption. • Continuation of reuse of harvested rainwater and possibility of inclusion other terrace area for the same
6	Domestic water	Reduction of sewage water	<ul style="list-style-type: none"> • Spray gun facility for the utensil cleaning to reduce the raw water usage for domestic purposes • Drip system for gardening at LAB can reduce further consumption of water. • Fault/leak free Water tap provision for hand washing and toilet area could control water leakage.
7	Effluent water	Reduction of effluent	<ul style="list-style-type: none"> • The manual water pouring for cooling in the process line could be avoided which generate more effluent. • Optimum utilization of process water with minimum effluent generation. • Details on Effluent water generation at source and its reduction plan by brainstorming session with production team shall be conducted.

ANNUAL WATER AUDIT REPORT



8	Oil contamination	Oil mix-up	<ul style="list-style-type: none"> • Through operational control the oil spillage can be reduced, subsequently oil mixed up in the drain will be reduced. • The floating oil skimmer arrangement has been done in the new OPWS pit to skim the oil layer • The close loop sampling system is recommended to reduce oil spillages
9	Operation of Effluent Treatment Plant	Treatment efficiency	<ul style="list-style-type: none"> • Ensure Continuous operation of ETP. • The efficiency of ACF and PSF operations at RO needs to be monitored and back washing of filters is to be done periodically (at least once in a day)
10	Main Sewage Collection Tank	Anaerobic condition of sewage	<ul style="list-style-type: none"> • Ensure continuous operation of the STP to consistently meet prescribed effluent standards. • The collected sewage should not be stored for a long period of time and should be treated and consumed for gardening purposes. It should be transported to the sewage treatment plant continuously.



7. Conclusion

The internal water audit has revealed several opportunities to reduce water consumption and improve overall efficiency. Key areas include optimizing treatment processes, minimizing wastage, and increasing the reuse of treated and rainwater. Regular maintenance of treatment units. Simple measures like sensor-based taps, grey water treatment facility and immediate leak rectification can also make a big impact. Implementing these improvements will support long-term resource savings and environmental responsibility.

18 Acres GB Area for TPI- LAB plant

While developing GB on Sep-2023



GB Status as on date NOV-2025





Smart Classroom provided to Village's School



Rest Room & Waiting Shed provided at Sathankadu



Green Belt 10 Acres developed at Morai Village, Tiruvallur District





Green Belt 2.11 Acres developed at Pandeswaram Village, Tiruvallur District







Tree & flower plantation developed on the banks of Korattur river





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.





Tamilnadu petroproducts Limited, Manali



