



# Tamilnadu Petroproducts Limited

Ref: TPL – HCD/ 2025/EC Comp/09

13<sup>th</sup> NOV- 2025

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

Dear Sir,

**Sub: TPL – HCD Plant – Environmental Clearance (EC) – Six Monthly Compliance Report – APR-2025 to SEP-2025 - reg.**

Ref: F.No. J-11011/20/99-IA-II(I) dated 18.09.2023

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This has reference to the Environmental Clearance (EC) obtained from MoEF&CC, New Delhi for Expansion of Caustic Soda production capacity from 150 TPD to 250 TPD by bipolar membrane cell process in the existing Heavy Chemicals Division Plant (HCD Plant) at Manali, Chennai.

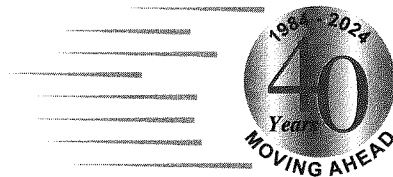
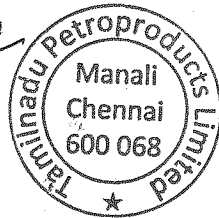
We herewith attach the EC compliance status report for the period from April 2025 to September 2025 for your kind reference.

Thanking you,

Yours faithfully,  
For Tamilnadu Petroproducts Limited

*V.S. Prakash Kumar*

V.S. Prakash Kumar  
GM – Services



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Manali Express Highway, Manali, Chennai - 600 068, India.  
Tel. : (0091) - 44 - 25945500 to 09 Website : [www.tnpetro.com](http://www.tnpetro.com)  
CIN : L23200TN1984PLC010931  
TPL GSTIN : 33AAACT1295M1Z6

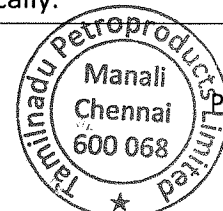
**Environmental Clearance Compliance Status Report**

*For the period from APR 2025 to SEP 2025*

Ref: No. J-11011/20/99-IA-II(I) dated 18.09.2023.

**(A) Specific Condition**

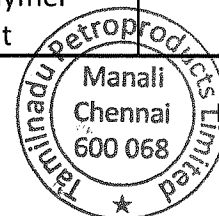
S.No	Condition	Compliance Status
1	The directions issued in the Judgement dated 20.07.2023 by the Hon'ble NGT in O.A.No. 256/2020 shall be strictly complied and the compliance to each of the direction shall be submitted to the IRO, MoEF&CC along with the six-monthly reports	Being complied Directions issued in the judgement of O.A.No. 256/22020 by the Hon'ble NGT has been complied and the same has been submitted to IRO, MoEF&CC along with the six-monthly reports
2	Adequate stack height as per CPCB/SPCB guidelines shall be provided. Stack emission levels shall be stringent than the existing standards in terms of the identified critical pollutants	Complied Adequate stack height of all point sources of emissions ensured as per CPCB/SPCB guidelines and emission levels being maintained within the existing standards.
3	CEMS shall be installed and connected to SPCB/CPCB Server.	Complied Continuous Emission Monitoring System already installed. And OCEMS data is being uploaded continuously in TNPCB / CPCB server.
4	Effective fugitive emission control measures shall be adopted in the process, transportation, packing etc.	Being complied The following measures are being taken by the industry to control the fugitive emissions. <ul style="list-style-type: none"> <li>• Regular preventive maintenance of equipment, effective plant operation and continuous monitoring are being carried out. Records are being maintained.</li> <li>• Chlorine detectors are installed at chlorine bottling area, Cell house, transfer pipeline areas for monitoring and to take immediate corrective and preventive actions.</li> <li>• Hydrogen detector installed in H2 bottling, Boiler &amp; Cell house</li> <li>• LNG detector installed in Boiler area</li> <li>• Chemicals used in the manufacturing process are stored in closed shed.</li> <li>• Preventive maintenance of pumps, valves, pipelines is being carried out periodically.</li> </ul>



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# TPL-HCD plant -EC Compliance Report

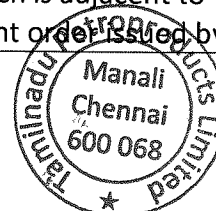
		<ul style="list-style-type: none"><li>• To eliminate leakage &amp; to ensure maximum sealing safety, double mechanical seals are provided in Caustic circulation Pumps &amp; Chlorine blower, based on Hazardous service applications.</li><li>• 1 Number of Continuous Ambient Air Quality Monitoring Station is provided to monitor Chlorine, HCl Vapour and Ammonia and monitoring data is connected to CPCB/TNPCB.</li></ul>															
5	Fuel (R - LNG) shall be transferred through pipeline from IOCL. Raw material and products shall be transported through dedicated road tankers, Raw material Common salt shall be shipped and transported by sea, and majority quantity of gaseous chlorine shall be transferred through pipeline	Complied Fuel (R - LNG) is received through a pipeline from IOCL. Raw material and products are transported through dedicated road tankers. Raw material Common salt is shipped by sea, and the gaseous chlorine is transferred through pipeline.															
6	Regasified Liquefied Natural Gas / Hydrogen shall be used as fuel in Boiler.	Complied We switched over from Fuel Oil (FO) to cleaner fuels i.e., R-LNG / Hydrogen in Boiler, since 2019.															
7	The best available technology shall be used and as committed by the PP, Caustic soda shall be manufactured through latest energy efficient bipolar membrane cell technology	Being Complied The manufacturing of caustic soda is planned to be carried out using the latest energy-efficient bipolar membrane cell technology.															
8	The PP shall develop greenbelt over an area of at least 14 acres (42.18% of total land area)by planting approx. 7000 numbers of saplings within a year of grant of EC. The saplings selected for the plantation should be of sufficient height, preferably 6-ft. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate,	Being complied Green belt development details <table><tr><th>Sl.No</th><th>Green belt details</th><th>Area in Acres</th><th>% of green belt area</th><th>No of trees</th></tr><tr><td>1</td><td>Green belt within the plant premises</td><td>5.00</td><td>15.06</td><td>5000</td></tr><tr><td>2</td><td>Green belt adjacent to the premises – *Polymer plant</td><td>9.00*</td><td>27.11</td><td>9000</td></tr></table>	Sl.No	Green belt details	Area in Acres	% of green belt area	No of trees	1	Green belt within the plant premises	5.00	15.06	5000	2	Green belt adjacent to the premises – *Polymer plant	9.00*	27.11	9000
Sl.No	Green belt details	Area in Acres	% of green belt area	No of trees													
1	Green belt within the plant premises	5.00	15.06	5000													
2	Green belt adjacent to the premises – *Polymer plant	9.00*	27.11	9000													



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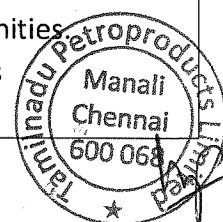
# TPL-HCD plant -EC Compliance Report

	density of plantation etc. to the Regional Office of MoEF&CC before 1 <sup>st</sup> July of every year for the activities carried out during previous year	3	Total green belt area	14.00	42.18	14000
		<p>1.* The total Green Belt area is 14 Acres (42.18% of Total Land Area), Green Belt area of 5 Acres (15.06%) was developed inside the plant premises, and 9 Acres (27.11%) was developed outside the plant premises at TPL-Polymer Plant, which is located 250m from the project site.</p> <p>2. Additionally, we have developed a green belt area of around 15.14 acres outside the plant premises at Morai Village, Pandeswaram Village, Thiruvallur District during 2022 – 2023. (No. of tree sapling planted– 15000).</p> <p>Auditor certified statement towards expenditure incurred for Green Belt development, along with proof of developed green belt has also been submitted to the Regional Office of MoEF&amp;CC. Auditor certificate is attached <b>Annexure-1</b></p>				
9	1400 Nos. of avenue plantation shall develop in highway median nearby plant.	<p>Complied</p> <p>Avenue plantation was developed in highway median, nearby plant.</p>				
10	The transportation load on roads shall be within their carrying capacity and adequate width of roads shall be maintained inside the industrial premises.	<p>Complied</p> <p>Sufficient road space is available within the site premises for transportation of loads. The width of existing roads is min 7 m, which is adequate for transportation of loads.</p>				
11	Entire liquid Effluent generated shall neutralized with Acid / Alkali and treated effluent shall be utilized in ECH – PO Process. Sludge shall be used as manure for Greenbelt.	<p>Complied</p> <p>We have an adequate effluent treatment plant to treat the effluent and the treated effluent is being utilized in ECH – PO Process. The Sewage water is being treated in combined STP plant and STP sludge is utilized as manure for greenbelt.</p>				
12	As committed by the PP, zero liquid discharge shall be ensured.	<p>Complied</p> <p>There is no discharge of treated effluents into the land or any water bodies, both from existing plant and proposed expansion. Entire quantity of treated trade effluent is being recycled and reused in the TPL (ECH PO Plant) which is adjacent to TPL (HCD Plant), as per consent order issued by TNPCB.</p>				



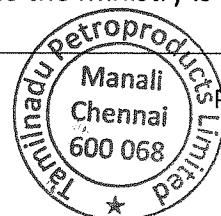
# TPL-HCD plant -EC Compliance Report

		Consent No: 2408157787803 dt:25-05-2024
13	Online continuous effluent monitoring system (OCEMS) shall be provided for pH, TSS and Flow for Effluent treated water shall be connected to TNPCB and CPCB	Complied Online continuous effluent monitoring system (OCEMS) is provided for monitoring pH, TSS and flow of treated effluent and it is connected to TNPCB & CPCB.
14	The roof top rainwater shall be collected in the existing Rain water harvesting pits is 2 Nos and 2 Nos of water reservoir 3000 KL (72m x 25m x 1.7m) & 2000 KL (26m x 36m x 2.1m) shall be maintained and used for process purpose. Rain water percolation pit shall be provided to collect rain water from Canteen building for ground water recharge. The PP also proposed to provide roof rain water harvesting facility for 4000 sq.m. which shall be collected in the existing reservoir and will be utilized for process purpose	Being complied The existing rainwater Harvesting facility has been maintained and it is ensured that the rainwater is collected in 2 Nos of water reservoir 3000 KL (72m x 25m x 1.7m) & 2000 KL (26m x 36m x 2.1m) and it is utilized for process purposes. Rainwater percolation pit is also provided to collect the rainwater from the canteen to ensure ground water recharge. We commit to provide roof rainwater harvesting facility for 4000 sq.m. which shall be collected in the existing reservoir and will be utilized for process purpose.
15	4 KLD of sewage shall be treated in Common STP of capacity 160 KLD. Sewage after treatment in STP shall be used for Green Belt.	Complied. The proposed additional sewage effluent can be treated in the existing combined STP, which is adequate to treat the additional load & treated sewage effluent will be utilized for green belt.
16	As committed by the PP, no Fly ash, slag, red mud, etc., shall be generated from the plant.	Complied Ensured that no fly ash, slag, red mud, etc., shall be generated from the plant.
17	All the hazardous wastes generated from HCD plant shall be handled and disposed, as per the Authorization obtained from TNPCB	Complied All the hazardous waste generated from the HCD process is being stored at covered storage area and is transported to approved TSDF/recycler.
18	Monitoring of the compliance of EC conditions shall be submitted with third party audit every year.	Complied Compliance of EC conditions is being audited by Third party every year.
19	As proposed, an amount of ₹2.5 crore shall be allocated towards CER in nearby communities	Being complied. An amount of ₹2.5 crore has been allocated towards CER in nearby communities. CER spent details is attached as <b>Annexure-02</b>



## TPL-HCD plant -EC Compliance Report

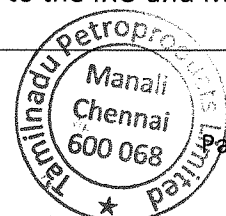
20	As committed by the PP, industry shall use renewable energy of 8MW from wind energy and 2MW from solar energy within 18 months from the date of EC of the project.	Shall be complied. As committed, additional renewable energy of 10MW solar is being tied up.
21	As committed by the PP, industry shall use organic waste for the manure preparation and the same shall be used for Greenbelt development	complied. A dedicated space allotted for manure preparation & facility has been provided.
22	As committed by the PP, industry shall install roof top solar panel and the power from the same shall be utilized for the plant to facilitate the renewable energy utilisation	Complied. A rooftop solar power system of 230 kW capacity has been installed, and the generated power is being utilized within the plant to enhance renewable energy usage.
23	As committed by the PP, Industry shall proceed long term feasibility study for the green hydrogen generation	Shall be complied.
24	A separate Environmental Management Cell (having qualified persons 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. PP shall engage whole time director operations- DGM operations- Head Environment- HOD- Tech service- HOD quality Assurance. In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1 <sup>st</sup> July of every year for the activities carried out during previous year.	Being complied A separate Environmental Management cell is available with qualified environmental science personnel.  Full-fledged laboratory is available to carry out Environmental Management and Monitoring functions.  Safety & health officer as per the qualification given in Factories Act 1948 has been engaged.  EMC budget annual allocation and spent details has been prepared and with auditor certification along with proof of implementation has also been submitted to the Regional Office of MoEF&CC. Refer <b>Annexure-03</b>
25	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	Being complied All the environmental protection measures and safeguards proposed in the documents submitted to the Ministry is being complied.



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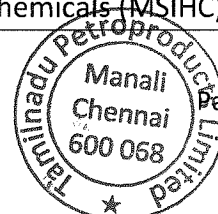
## TPL-HCD plant -EC Compliance Report

	<p>respect of environmental management, and risk mitigation measures relating to the project shall be implemented.</p> <p>The budget propose under EMP is ₹285 Lakh (Capital cost) and ₹23.5lakhs per annum (Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported byphotographs (before &amp; after with geo-location date &amp; time) and other document as applicable to the Regional Office of MoEF&amp;CC before 1<sup>st</sup> July of every year for the activities carried out during previous year.</p>	<p>All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures are being implemented.</p> <p>Being complied</p> <p>EMP budget annual allocation and spent details has been prepared and with auditor certification has also been submitted along with proof of implementation to the Regional Office of MoEF&amp;CC as <b>Annexure-04</b></p>						
26	<p>The total water requirement is 1710 m3/day (Existing 1170 m3/day &amp; Proposed 540 m3/day) of which fresh water requirement of 1690 m3/day (Existing 1154 m3/day &amp; Proposed 536 m3/day) will be met from CMWSSB-City Sewage TTRO. The PP should ensure that water supply should not be above the permissible limit as mentioned in the letter and fresh water shall be withdrawn only after obtaining valid agreement from Concerned Authority. The PP should submit the details of utilization to the Integrated Regional Office (IRO), MoEF&amp;CC before 1st July of every year for the activities carried out during the previous year.</p>	<p>Being complied</p> <p>The proposed water demand will be met through CMWSSB-City Sewage TTRO, for which we already have established an agreement with CMWSSB and committed to use the water within the consented quantity, The TTRO water utilization detail have been submitted.</p> <table><tr><th>Year</th><th>Water utilization</th></tr><tr><td>2023-24</td><td>607 KLD</td></tr><tr><td>2024-25</td><td>659 KLD</td></tr></table>	Year	Water utilization	2023-24	607 KLD	2024-25	659 KLD
Year	Water utilization							
2023-24	607 KLD							
2024-25	659 KLD							
27	<p>No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.</p>	<p>Complied</p> <p>No banned chemicals/raw materials will be used in the manufacturing process and we commit to adhere to the notifications/guidelines issued by Government in this regard.</p>						
28	<p>The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be</p>	<p>Being complied</p> <p>Carbon sequestration has been achieved with the greenbelt development. Carbon sequestration and Carbon footprint study was conducted by the NABL accredited lab &amp; has been shared to the IRO and MoEF &amp; CC.</p>						



# TPL-HCD plant -EC Compliance Report

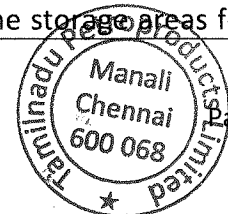
	submitted to the IRO, MoEF&CC in this regard.	
29	The PP shall comply with the environment norms for synthetic organic chemical as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 608(E), dated 21.7.2010 under the provisions of the Environment (Protection) Rules, 1986	Environment norms notified vide GSR 608(E), dated 21.7.2010 under the provisions of the Environment (Protection) Rules, 1986 is meant for Emission standards for organic chemicals manufacturing Industry. TPL-HCD plant being under category of Chlor-Alkali industry, is complying with the chlorine and Hydrochloric acid emission as per the applicable standard.
30	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996	Complied We have taken all necessary precautions to avoid accidents, and we have Onsite emergency plan, approved by the Directorate of Industrial Health and Safety dept. We have been conducting mock drill once in two months, to verify the effectiveness of on-site plan as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996
31	The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.	Organic compounds (VOCs) / Fugitive emissions are meant for organic chemicals manufacturing Industry. TPL-HCD plant being under category of Chlor-Alkali industry, is complying with the chlorine and Hydrochloric acid emission as per the applicable standard.
32	The PP shall explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.	Being complied We are exploring possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal
33	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.	Being complied. The storage of toxic / hazardous raw material being maintained are bare minimum with respect to quantity and inventory as per Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989





**TPL-HCD plant -EC Compliance Report**

		<p>The inventory quantity and days of storage are being submitted to the Regional Office of Ministry and SPCB along with the compliance report every six months.</p> <p>As on 30<sup>th</sup> SEP-25, Liquid Chlorine inventory was 127.66 MT and Hydrochloric Acid Inventory was 171.872 MT</p>
34	<p>An occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers &amp; 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> <ul style="list-style-type: none"> <li>• Doctor</li> <li>• Nurse, round the clock.</li> <li>• Ambulance</li> </ul> <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) and <b>mobile clinic</b> are provided at nearby villages (Vichoor, Sadayankuppam, Periyasekkadu, Kannampalayam and 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 &amp; contractors.</p>
35	<p>Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.</p>	<p>Being complied</p> <p>Trainings are being imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training also provided through periodic refresh/demonstration kind of programme.</p>
36	<p>The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms</p>	<p>Complied</p> <p>Firefighting system is provided as per the Tamilnadu Factories Rules.</p> <p>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</p>

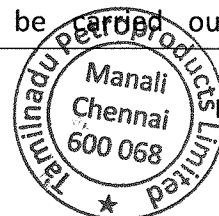


## TPL-HCD plant -EC Compliance Report

		possible fire hazards during manufacturing process in material handling. Fire license obtained from Tamilnadu Fire & Rescue services, Govt. of Tamilnadu. Govt. of Tamil Nadu. (Renewal Fire license validity is up to (25.08.2028).
37	<p>The solvent management shall be carried out as follows:</p> <p>(a) Reactor shall be connected to chilled brine condenser system.</p> <p>(b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.</p> <p>(c) Solvents shall be stored in a separate space specified with all safety measures.</p> <p>(d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>(e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p> <p>(f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation</p>	<p>Complied</p> <p>TPL-HCD plant is under category of Chlor-Alkali industry. We don't have solvents stock/ solvent handling equipment. However, we have provided proper earthing for all the electrical equipment, as we are handling Hydrogen gas, which is a byproduct in the caustic soda manufacturing.</p>
38	<p>The PP shall undertake waste minimization measures as below.</p> <p>(a) Metering and control of quantities of active ingredients to minimize waste;</p> <p>(b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>(c) Use of automated filling to minimize spillage.</p> <p>(d) Use of Close Feed system into batch reactors.</p> <p>(e) Venting equipment through vapour recovery system.</p> <p>(f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.</p>	<p>Being complied</p> <p>We have been initiated waste minimization measures by reusing the wastewater generated from the water treatment plant (DM plant)</p>

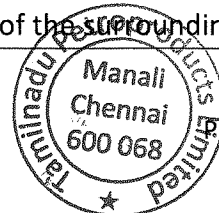
### Environmental Clearance – General Condition

S. No	Condition	Compliance Status
1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its	<p>Complied.</p> <p>No further expansion or modification in the plant will be carried out, without prior</p>

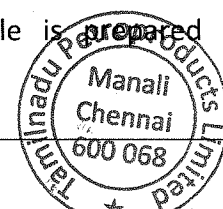


## TPL-HCD plant -EC Compliance Report

	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.,	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 Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.	Complied. We have complied with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans- Boundary Movement) Rules, 2016.
3	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.
4	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 EMDG 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.
5	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by	Being complied All relevant measures will be taken towards the improvement of socio-economic conditions of the surrounding area.

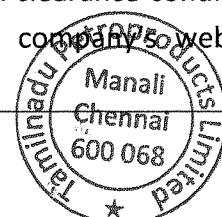


	<p>involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.</p>	<p>Action plan is prepared to undertake eco-developmental measures 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> <p>Following community welfare measures are taken under CSR/CER activities.</p> <p>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"> <li>• Sadayankuppam,Vichoor,</li> <li>• Periyasekkadu,Kannampalayam,</li> <li>• Seemavaram,</li> <li>• Mobile Primary Health Care Centre (Dr. Mobile).</li> <li>• Healthcare support to Thiruvottiyur Government Hospital</li> <li>• We are constructing a drinking water RO facility for the nearby village at a cost of ₹19.5 lakh.</li> <li>• Constructed rest rooms in Government schools at following location in, Manali.</li> <li>• Government high school at Manali New Town</li> <li>• Government high school at Redhill</li> <li>• Government high school at Vichoor. &amp;Near Sathankadu police station</li> </ul> <p>CER spent details is attached as <b>Annexure-02</b></p>
6	<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</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>



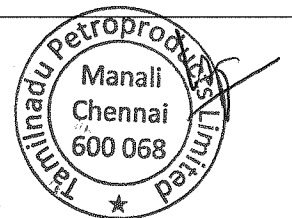
## TPL-HCD plant -EC Compliance Report

	management/ pollution control measures shall not be diverted for any other purpose.	Funds earmarked for environmental management / pollution control measures will not be diverted for any other purpose.
7	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.	Complied No suggestion was received from Panchayat / Municipal corporation urban local body and local NGO while processing the proposal.
8	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.	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) has been 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 ( <a href="http://www.tnpetro.com">www.tnpetro.com</a> ) and will be updated periodically.
9	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.	Complied The environmental statement (Form V) is being submitted to TNPCB once in a year before 30 <sup>th</sup> 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 regularly. A copy of Form V and six-monthly compliance status of environmental clearance conditions were uploaded in the company's website. ( <a href="http://www.tnpetro.com">www.tnpetro.com</a> )



**TPL-HCD plant -EC Compliance Report**

10	<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 <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a>. 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 concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.</p>	<p>Complied</p> <p>Detail of the Environmental clearance obtained for the project was published in English &amp; Tamil newspapers (The Financial Express and Makkal Kural on 26.09.2023) as public notice advertisements.</p> <p>Advertisements were submitted through mail to the Regional Office,</p>
11	<p>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>	<p>Complied.</p> <p>The consent for establishment (CTE) obtained from TNPCCB CONSENT ORDER NO.2406155711448,2406255711448, DATED: 20/01/2024.</p> <p>G.O from Tamilnadu Government based on Site Appraisal Committee (SAC) recommendation obtained in the month of August-2024</p> <p>The date of the start of the project: Feb-2024</p>
12	<p>This Environmental clearance is granted subject to 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.</p>	<p>Noted and shall be complied.</p>





# TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

## AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No. 09/AAQS/2025-26

Date: 13.06.2025

1. Name of the Industry : **M/s. TPL (HCD),**
2. Address of the Industry : Manali Express Highway, Manali, Chennai - 68.
3. Date of Survey : 14.05.2025
4. Duration of Survey : **8 Hours** / 24 hours
5. Category : **Red** / Orange / Green – **Large** / Medium / Small
6. Land use classification : **Industrial** / Commercial / Residential / Sensitive

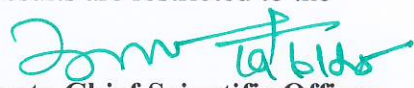
### Meteorological Conditions

Ambient Temperature (°C)	Min 33	Max 36	Relative Humidity (%)	Min 59	Max 67
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind Direction	SE - NW		Mean Wind Speed (km/hr)	15.7	

### Ambient Air Quality Survey Results

Sl. No.	Location	Direction *	Distance (m) *	Height Form GL (m)	Pollutants Concentration (microgram / m <sup>3</sup> )				
					PM 2.5	PM 10	SO <sub>2</sub>	NO <sub>2</sub>	Cl <sub>2</sub>
1	On top of platform adjacent to Canteen	NE	100	3.0	28	68	12	14	<0.1
2	On top of platform near CPP	E	50	3.0	--	86	12	16	< 0.1
3	On top of platform near salt yard (Gate No 5)	SE	100	3.0	--	85	11	14	< 0.1
4	On top of CP station – platform near scarp yard	SW	100	3.0	39	81	13	15	< 0.1
5	On top of platform near NaOH Tank	W	75	3.0	--	80	13	18	<0.1
6	On top of the fire hydrant pump house	NW	100	3.0	--	89	16	23	< 0.1

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 <sub>2</sub>	Modified West – Gaeke / IS 5182 : (Part 2) – 2001 RA: 2012
NO <sub>2</sub>	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA:2012





# TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Manali

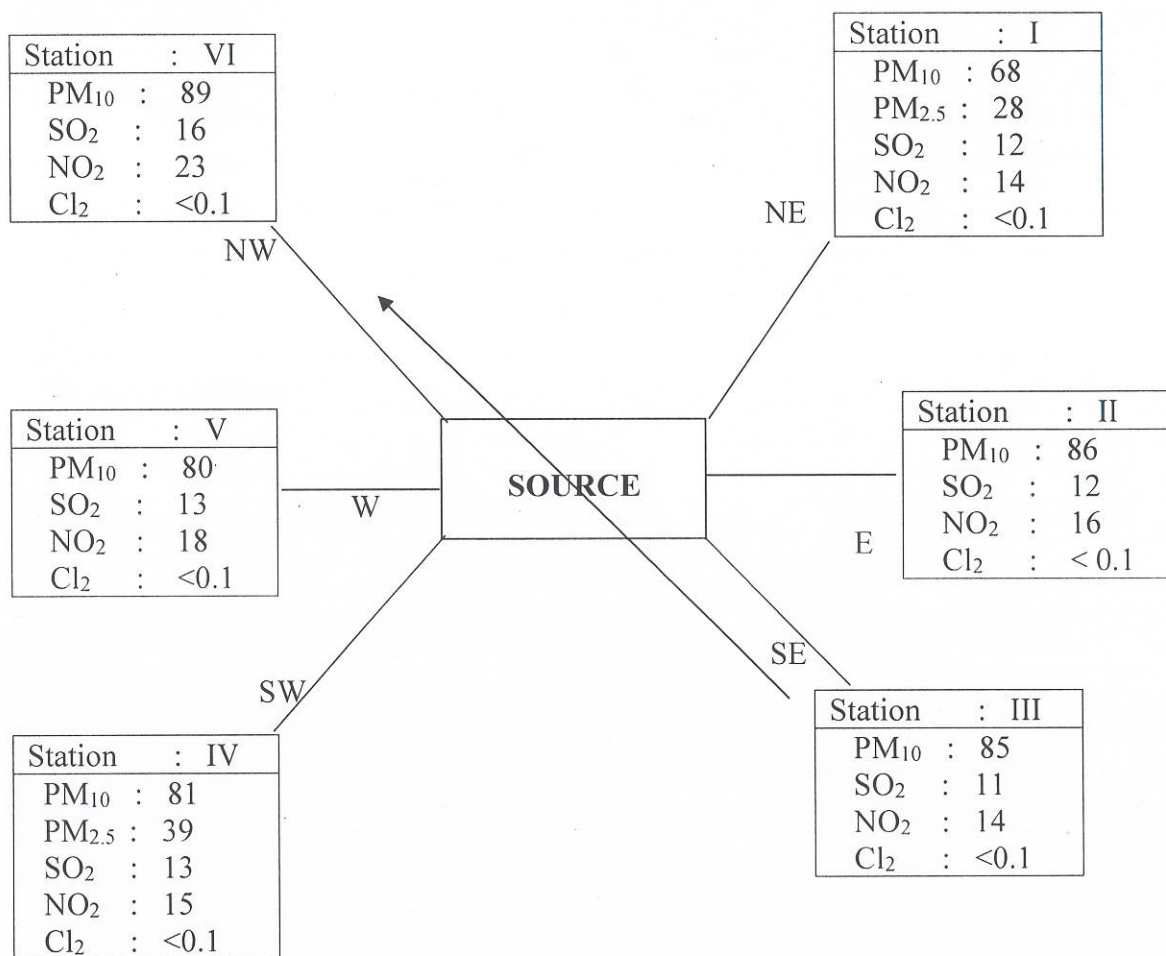
## AMBIENT AIR QUALITY SURVEY

Schematic Diagram Showing Location of Sampling

Report No. 09/AAQ/SM/2025-26

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

Date of Survey : 14.05.2025



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	SE – NW
Wind Speed (Km/hr)	15.7
Weather Condition	Partially Cloudy
Rainfall	Nil

*[Signature]*  
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.** 09/ SM/2025-26


**Date:** 13.06.2025

1. Name of the Industry : **M/s. TPL (HCD),**
2. Address of the Industry : **Manali Express Highway, Manali, Chennai – 68**
3. Date of Survey : **14.05.2025**
4. Type of Industry : **Coal/Chemical/Sugar/Paper & Pulp/  
Power plant / Textile Processing**

### **Stack Monitoring Survey Results**

Sl. No.	Stack attached to	Fuel used	Stack Temp °K	Velocity in (m/ sec)	Discharge rate In Nm <sup>3</sup> /hr	Pollutants (mg / Nm <sup>3</sup> )				
						PM	SO <sub>2</sub>	NO <sub>x</sub>	Cl <sub>2</sub>	HCl
1	DG-500 KVA	Diesel	434	18.4	830	20	24	141	--	--
2	Boiler Thermax	LNG	467	14.6	39185	3	4	66	--	--
3	Waste Air Dechlorination Plant	--	310	13.9	3513	2	--	--	4	--
4	HCl Scrubber	--	314	15.6	973	2	--	--	--	10

Test Performed	Test Method
PM	IS 11255 : (Part 1) – 1985
SO <sub>2</sub>	IS 11255 : (Part 2) – 1985
NO <sub>x</sub>	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.09/AAQ/SM/2025-26**

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

2. Date of Survey : 14.05.2025

Sl. No.	Particulars	1	2
1.	Stack attached to	DG	Boiler
2.	Details of process stack	<b>DG 500 KVA</b>	<b>Boiler Thermax</b>
3.	Height from G Level in (m)	8	33
4.	Diameter in (m)	0.15	1.2
5.	Port hole height from Ground Level or bends or ducts in (m)	7	20
6.	Fuel Used (with % Sulphur content)	Diesel	LNG
7.	Fuel Consumption rate per hr (mention units)	80 Litre / hr	97.22 m <sup>3</sup> /hr
8.	Type of Stack and capacity	Round	Round
9.	Production on 14.05.2025	Caustic soda Lye-104.5 MT, HCL-62 MT, Bottled Hydrogen-0.360 MT	
10.	APC Measures provided	CPCB BSIV+ Compliant Stack provided	Stack with Low NO <sub>x</sub> Burner in Boiler
11.	APC functional status	Functioning	Functioning
12.	Ambient temp in °K	308	308
13.	Temp of flue gas in °K	434	467
14.	Velocity of flue gas in m/sec	18.4	14.6
15.	Volume of flue gas sampled in m <sup>3</sup>	1.017	1.000
16.	Gaseous Discharge rate per day in Nm <sup>3</sup> /hr	830	39185

  
**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.09/AAQ/SM/2025-26**

1. Name and Address of the Industry : **M/s. TPL (HCD)**  
Manali Express Highway, Manali, Chennai – 68
2. Date of Survey : 14.05.2025

Sl. No.	Particulars	3	4
1.	Stack attached to	Chlorine Scrubber	HCl Scrubber
2.	Details of process stack	<b>Waste Air Dechlorination Plant</b>	<b>HCl</b>
3.	Height from G Level in (m)	16	18
4.	Diameter in (m)	0.3	0.15
5.	Port hole height from Ground Level or bends or ducts in (m)	14	16
6.	Fuel Used (with % Sulphur content)	--	--
7.	Fuel Consumption rate per day (mention units)	--	--
8.	Type of Stack and capacity	Round	Round
9.	Production on 14.05.2025	Caustic soda Lye-104.5 MT, HCL-62 MT, Bottled Hydrogen-0.360 MT	
10.	APC Measures provided	Scrubber	Scrubber
12.	APC functional status	Functioning	Functioning
13.	Ambient temp in °K	308	308
14.	Temp of flue gas in °K	310	314
15.	Velocity of flue gas in m/sec	13.9	15.6
16.	Volume of flue gas sampled in m <sup>3</sup>	1.022	1.015
17.	Gaseous Discharge rate per day in Nm <sup>3</sup> /hr	3513	973

  
**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. 09/ SM/2025-26

Date: 13.06.2025

1. Name of the Industry : **M/s. TPL (HCD)**
2. Address of the Industry : Manali Express Highway, Manali, Chennai – 68
3. Date of Survey : 14.05.2025
4. Type of Industry : Coal/**Chemical**/Sugar/Paper & Pulp/  
Power plant / Textile Processing

**Stack Monitoring Additional details**

Sl. No.	Details of stack mentioned in the Air Consent order	Details of stack available and in working condition	Details of stack for which stack Emission sampling have been done	Justification for the left out of stack Emission Sampling
1.	DG-500 KVA	Working	Sampling Done	--
2.	Boiler Thermax	Working	Sampling Done	--
3.	Waste Air Dechlorination Plant	Working	Sampling Done	--
4.	HCl Scrubber	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. 09/ NLS/2025-26

Date: 13.06.2025

1.	Name of the Industry	M/s. TPL (HCD)		
2.	Address of the Industry	Manali Express Highway, Manali, Chennai - 68		
3.	Date of Survey	14.05.2025		
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 Canteen	10	100	NE	65.4	58.4	74.5
2	Near CPP	10	50	E	68.2	61.0	79.9
3	Near Salt Yard (Gate No.5)	10	100	SE	65.1	53.6	73.3
4	Near Scarp Yard	10	100	SW	63.3	56.4	70.8
5	Near NaOH Tank	10	75	W	68.0	63.2	80.6
6	Near Hydeant Pump House	10	100	NW	65.3	58.9	74.2

**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 (HCD)  
2. Pollution Category : Red Large  
3. Date of A.A.Q. Survey : 14.05.2025  
4. Predominant Wind Direction : SE - NW  
5. Weather condition : Partially Cloudy

### **STATUS OF POLLUTANTS LEVEL**

#### **I. AMBIENT AIR QUALITY :-**


1. Total No. of A.A.Q. stations monitored : 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 <sup>3</sup>		BOARD's STANDARD (As per consent order)
		Maximum	Minimum	
1.	PM <sub>10</sub>	89	68	100
	PM <sub>2.5</sub>	39	28	60
2.	<u>GASEOUS POLLUTANTS:-</u>			
	(i) SO <sub>2</sub>	16	11	80
	(ii) NO <sub>2</sub>	23	14	80

#### **II. STACK MONITORING:-**

1. Total No. of Stacks Monitored : 4  
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 Petroproducts Limited

Ref: TPL – HCD/EC/2023

05<sup>th</sup> Oct- 2023

To  
The Director  
Integrated Regional Office  
Ministry of Environment, Forest & Climate Change  
First Floor, Additional Office Block  
Shastri Bhavan, Haddows Road  
Nungambakkam, Chennai – 600 006.

Dear Sir

Sub: TPL-HCD Plant - Intimation of EC granted – Newspaper publication – Reg.  
Ref: EC Identification No: EC23A013TN173796 - File No. J-11011/20/99-IA-II(I)  
dated 18.09.2023.

We wish to inform you that the Ministry of Environment, Forest & Climate Change (MOEFCC) has granted Environmental Clearance (EC) for the Expansion of Caustic Soda production capacity from 150 TPD to 250 TPD by bipolar membrane cell process in the existing Heavy Chemicals Division Plant (HCD Plant), Manali, Chennai - 600068 vide EC Identification No: EC23A013TN173796; File No. J-11011/20/99-IA-II(I) dated 18.09.2023.

To comply with one of conditions stated in the EC, Public Notice advertisements in English & Tamil were published in the two local newspapers viz 'The Financial Express' and 'Makkal Kural' on 26.09.2023.

Copies of the EC and Public Notice advertisements (English & Tamil) are attached as Annexure for your kind reference and record.

Thanking you

Yours faithfully  
For Tamilnadu Petroproducts Limited

D. Senthikumar  
Whole Time Director



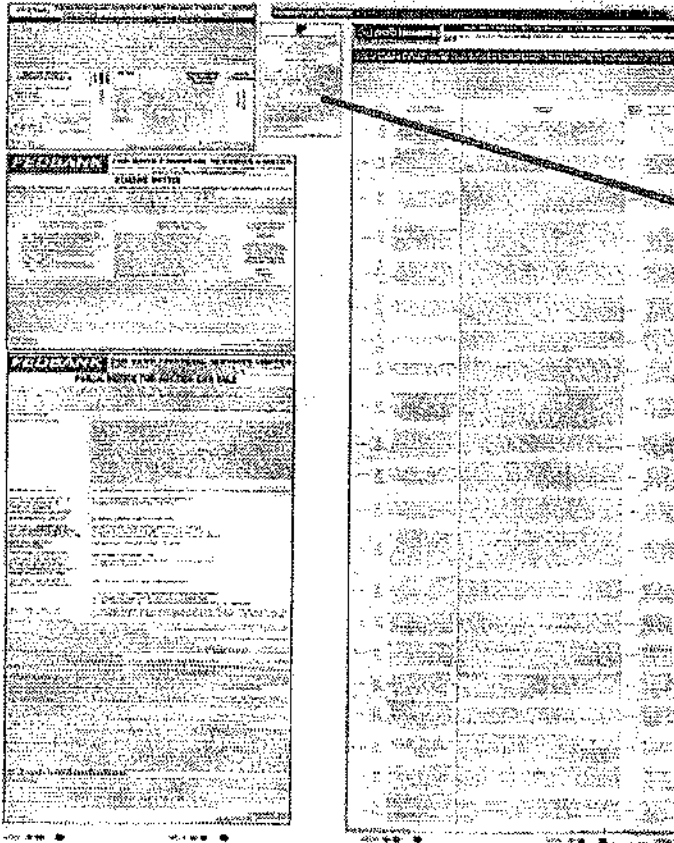
Regd. Office & Factory :

Post Box No. 9, Manali Express Highway, Manali,  
Chennai - 600 068, India.

Tel. : (0091) - 44 - 25945500 to 09 Telefax : 044-2594 5588  
Website : www.tnpetro.com CIN : L23200TN1984PLC010931

TPL GSTIN : 33AAACT1295M1Z6





English Newspaper-Financial Express dated 26.09.2023.

7 x 4

**IP**

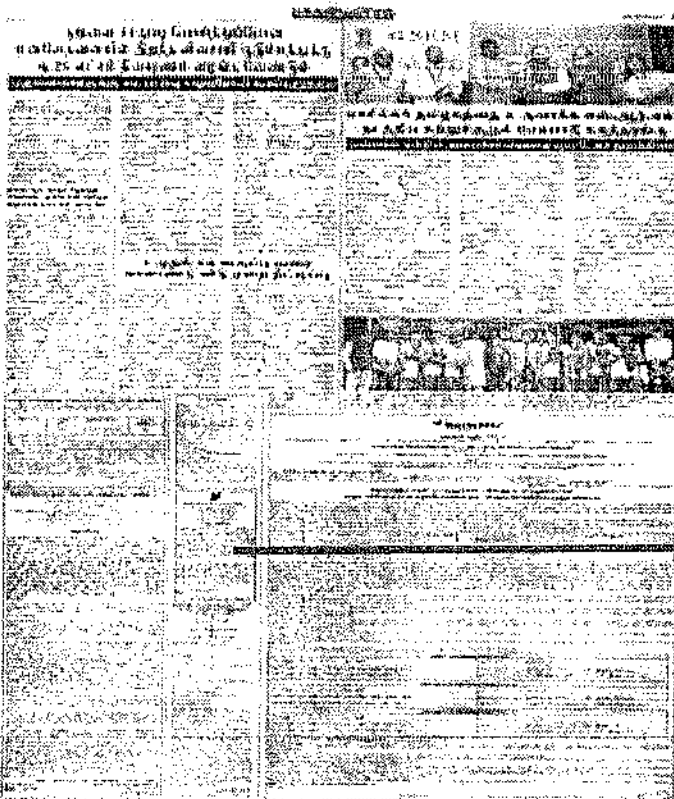
**Tamilnadu Petroproducts Limited**  
 Regd. Office & Factory: Manali Express Highway,  
 Manali, Chennai-600 068, Telefax: 044-25945500  
 CIN: L23200TN1984PLC010031  
 Website: www.inpetro.com  
 E-mail: secy-legal@inpetro.com

**PUBLIC NOTICE**

This is to inform you that the Ministry of Environment, Forest and Climate Change, New Delhi has accorded Environmental clearance for the Expansion of Caustic Soda production capacity from 150 TPD to 250 TPD by bipolar membrane cell process in the existing Heavy Chemicals Division Plant (HCD Plant) Manali, Chennai - 600068 vide their letter No.J-11011/20/99-IA-II(I) dated 18.09.2023.

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 <https://parivesh.nic.in>.

Place : Chennai - 600068  
 Date : 25.09.2023  
 Dy. General Manager - HR



7 x 4

**IP**

**தமிழ்நாடு பெட்ரோபுரடக்ட்ஸ் லிமிடெட்**  
 பதிவு அலுவலகம் - துறை: மானலி எக்ஸ்பிரஸ் ஹைவே,  
 மானலி, சென்னை-600 068  
 இடம்: L23200TN1984PLC010031  
 தொலைபேசி எண்: 044-25945500  
 வலைத்தளம்: www.inpetro.com  
 மின்னஞ்சல்: secy-legal@inpetro.com

**பொது அறிவிப்பு**

தமிழ்நாடு பெட்ரோபுரடக்ட்ஸ் லிமிடெட், மானலி, சென்னை 600068ல் அமைந்துள்ள ஹெவ் கெமிக்கல்ஸ் பிரிவு (HCD) ஆலையில் காஸ்டிக் சோடா 150 டன் தின உற்பத்தியிலிருந்து 250 டன் தின உற்பத்தி அளவிற்கு காஸ்டிக் சோடா உற்பத்தி விரிவாக்கத் திட்டத்திற்கு மத்திய சுற்றுச்சூழல், வனம் மற்றும் காப்பாற்றலை மாற்றம் அமைச்சகம், புது தில்லி, சுற்றுச்சூழல் அனுமதி வழங்கியுள்ளது. (J-11011/20/99-IA-II(I) தேதி 18.09.2023).

மேற்படி விரிவாக்கத் திட்டத்திற்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நகல் தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம் / கமிட்டி அலுவலகத்தில் உள்ளது. மேலும் இக்கடித்தின் தகவல் மத்திய சுற்றுச்சூழல், வனம் மற்றும் காப்பாற்றலை மாற்றம் அமைச்சகத்தின் இணையதளத்திலும் (<http://parivesh.nic.in>) காணலாம்.

இடம்: சென்னை - 600068  
 தேதி : 25.09.2023  
 துணை பொது மேலாளர் - மனிதவளம்

Tamil Newspaper-Makkal Kural dated 26.09.2023.





**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-1174925000000757F

Test Report No: RSIWMSL/CON/25-26/09/0425

Page 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD Plant) Manali Express Highway, Manali, Chennai – 600 068.
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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 : 19.09.25 Sample Location : Near Canteen (North East)  
 Sampling Date & Time : 18.09.25 to 19.09.25 (10:00am to 10:00am) Sample registration no : RSIWMSL/25-26/09/AAQ/0425  
 Sample received Date : 19.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd  
 Sub-Contracting of Tests : NA Sampling Procedure : IS-5182  
 Environmental Condition :  
 Ambient Temperature: Min: 25.5° C, Max: 36.6° C  
 Relative Humidity : Min: 56% & Max: 90%

**TEST RESULT**

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	IS: 5182-Part-24	26.2	60
2.	Particulate Matter (PM10)	µg/m <sup>3</sup>	IS: 5182-Part-23	65.38	100
3.	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-2	15.25	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-6	23.66	80
5.	Carbon Monoxide as CO	mg/m <sup>3</sup>	IS: 5182 -Part-10	1.20	4.0
6.	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182 -Part-25	BDL (DL: 20)	400
7.	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182-Part-9	BDL (DL: 27)	180
8.	Lead as Pb	µg/m <sup>3</sup>	IS: 5182-Part-22	BDL (DL: 0.1)	1.0
9.	Arsenic as As	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	6.0
10.	Nickel as Ni	ng/m <sup>3</sup>	IS: 5182 -Part-26	BDL (DL: 1.0)	20
11.	Benzo (a) Pyrene	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	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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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

TC-11749

**TEST REPORT**

URL No:TC-1174925000000758F

Test Report No: RSIWMSL/CON/25-26/09/0426

Page 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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 : 19.09.25 Sample Location : Near CPP (East)  
 Sampling Date & Time : 18.09.25 to 19.09.25 (10:10am to 10:10am) Sample registration no : RSIWMSL/25-26/09/AAQ/0426  
 Sample received Date : 19.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd  
 Sub-Contracting of Tests : NA Sampling Procedure : IS-5182  
 Environmental Condition :  
 Ambient Temperature: Min: 25.5° C, Max: 36.6° C  
 Relative Humidity : Min: 56% & Max: 90%

**TEST RESULT**

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	IS: 5182-Part-24	24.95	60
2.	Particulate Matter (PM10)	µg/m <sup>3</sup>	IS: 5182-Part-23	59.76	100
3.	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-2	16.59	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-6	26.27	80
5.	Carbon Monoxide as CO	mg/m <sup>3</sup>	IS: 5182 -Part-10	1.28	4.0
6.	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182 -Part-25	BDL (DL: 20)	400
7.	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182-Part-9	BDL (DL: 27)	180
8.	Lead as Pb	µg/m <sup>3</sup>	IS: 5182-Part-22	BDL (DL: 0.1)	1.0
9.	Arsenic as As	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	6.0
10.	Nickel as Ni	ng/m <sup>3</sup>	IS: 5182 -Part-26	BDL (DL: 1.0)	20
11.	Benzo (a) Pyrene	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	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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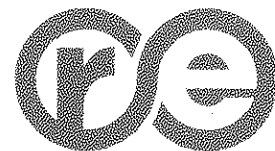
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-----End of the Report-----

**RE SUSTAINABILITY IWM SOLUTIONS LIMITED-QC LABORATORY****(A Division of Re Sustainability Limited)**

Plot No: 5-15, 28-33, SIPCOT Industrial Complex, Gummidipoondi-601201.

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Sustainability

**TEST REPORT**

URL No:TC-1174925000000759F

Test Report No: RSIWMSL/CON/25-26/09/0427

Page 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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 : 19.09.25 Sample Location : Near NaOH Tank (West)  
 Sampling Date & Time : 18.09.25 to 19.09.25 (10:35am to 10:35am) Sample registration no : RSIWMSL/25-26/09/AAQ/0427  
 Sample received Date : 19.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd  
 Sub-Contracting of Tests : NA Sampling Procedure : IS-5182  
 Environmental Condition :  
 Ambient Temperature: Min: 25.5° C, Max: 36.6° C  
 Relative Humidity : Min: 56% & Max: 90%

**TEST RESULT**

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	IS: 5182-Part-24	20.79	60
2.	Particulate Matter (PM10)	µg/m <sup>3</sup>	IS: 5182-Part-23	52.45	100
3.	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-2	13.45	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-6	22.30	80
5.	Carbon Monoxide as CO	mg/m <sup>3</sup>	IS: 5182 -Part-10	BDL (DL: 1.14)	4.0
6.	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182 -Part-25	BDL (DL: 20)	400
7.	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182-Part-9	BDL (DL: 27)	180
8.	Lead as Pb	µg/m <sup>3</sup>	IS: 5182-Part-22	BDL (DL: 0.1)	1.0
9.	Arsenic as As	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	6.0
10.	Nickel as Ni	ng/m <sup>3</sup>	IS: 5182 -Part-26	BDL (DL: 1.0)	20
11.	Benzo (a) Pyrene	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	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)**

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Sustainability

**TEST REPORT**

URL No:TC-1174925000000760F

Test Report No: RSIWMSL/CON/25-26/09/0428

Page 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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 : 19.09.25 Sample Location : Near CP Station (South West)  
Sampling Date & Time : 18.09.25 to 19.09.25 (10:30am to 10:30am) Sample registration no : RSIWMSL/25-26/09/AAQ/0428  
Sample received Date : 19.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd  
Sub-Contracting of Tests : NA Sampling Procedure : IS-5182  
Environmental Condition :  
Ambient Temperature: Min: 25.5° C, Max: 36.6° C  
Relative Humidity : Min: 56% & Max: 90%

**TEST RESULT**

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	IS: 5182-Part-24	19.54	60
2.	Particulate Matter (PM10)	µg/m <sup>3</sup>	IS: 5182-Part-23	50.51	100
3.	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-2	12.11	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-6	20.13	80
5.	Carbon Monoxide as CO	mg/m <sup>3</sup>	IS: 5182 -Part-10	1.25	4.0
6.	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182 -Part-25	BDL (DL: 20)	400
7.	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182-Part-9	BDL (DL: 27)	180
8.	Lead as Pb	µg/m <sup>3</sup>	IS: 5182-Part-22	BDL (DL: 0.1)	1.0
9.	Arsenic as As	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	6.0
10.	Nickel as Ni	ng/m <sup>3</sup>	IS: 5182 -Part-26	BDL (DL: 1.0)	20
11.	Benzo (a) Pyrene	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	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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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-1174925000000761F

Test Report No: RSIWMSL/CON/25-26/09/0429

Page 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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 : 19.09.25 Sample Location : Near Salt Yard & Gate No-5 (South East)  
 Sampling Date & Time : 18.09.25 to 19.09.25 (10:20am to 10:20am) Sample registration no : RSIWMSL/25-26/09/AAQ/0429  
 Sample received Date : 19.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd  
 Sub-Contracting of Tests : NA Sampling Procedure : IS-5182  
 Environmental Condition :  
 Ambient Temperature: Min: 25.5° C, Max: 36.6°C  
 Relative Humidity : Min: 56% & Max: 90%

**TEST RESULT**

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	IS: 5182-Part-24	23.29	60
2.	Particulate Matter (PM10)	µg/m <sup>3</sup>	IS: 5182-Part-23	58.97	100
3.	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-2	15.69	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-6	21.73	80
5.	Carbon Monoxide as CO	mg/m <sup>3</sup>	IS: 5182 -Part-10	1.34	4.0
6.	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182 -Part-25	BDL (DL: 20)	400
7.	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182-Part-9	BDL (DL: 27)	180
8.	Lead as Pb	µg/m <sup>3</sup>	IS: 5182-Part-22	BDL (DL: 0.1)	1.0
9.	Arsenic as As	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	6.0
10.	Nickel as Ni	ng/m <sup>3</sup>	IS: 5182 -Part-26	BDL (DL: 1.0)	20
11.	Benzo (a) Pyrene	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	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-1174925000000762F

Test Report No: RSIWMSL/CON/25-26/09/0430

Page 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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 : 19.09.25 Sample Location : Near Fire Hydrant Pump House (North West)  
 Sampling Date & Time : 18.09.25 to 19.09.25 (10:40am to 10:40am) Sample registration no : RSIWMSL/25-26/09/AAQ/0430  
 Sample received Date : 19.09.25 Sample Collected By : Re Sustainability IWM Solutions Ltd  
 Sub-Contracting of Tests : NA Sampling Procedure : IS-5182  
 Environmental Condition :  
 Ambient Temperature: Min: 25.5° C, Max: 36.6°C  
 Relative Humidity : Min: 56% & Max: 90%

**TEST RESULT**

S. No	Parameter	Unit	Method	Result	NAAQ Standard
1.	Particulate Matter (PM2.5)	µg/m <sup>3</sup>	IS: 5182-Part-24	22.04	60
2.	Particulate Matter (PM10)	µg/m <sup>3</sup>	IS: 5182-Part-23	52.58	100
3.	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-2	17.94	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS: 5182-Part-6	25.79	80
5.	Carbon Monoxide as CO	mg/m <sup>3</sup>	IS: 5182-Part-10	1.18	4.0
6.	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182-Part-25	BDL (DL: 20)	400
7.	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	IS: 5182-Part-9	BDL (DL: 27)	180
8.	Lead as Pb	µg/m <sup>3</sup>	IS: 5182-Part-22	BDL (DL: 0.1)	1.0
9.	Arsenic as As	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_039	BDL (DL: 1.0)	6.0
10.	Nickel as Ni	ng/m <sup>3</sup>	IS: 5182-Part-26	BDL (DL: 1.0)	20
11.	Benzo (a) Pyrene	ng/m <sup>3</sup>	RSIWMSL/LAB_SOP_043	BDL (DL: 0.1)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	µg/m <sup>3</sup>	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



End of the Report

Authorized Signatory



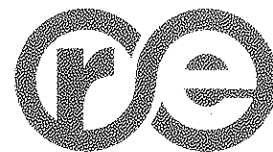
TC-11749

## 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-1174925000000763F

Test Report No: RSIWMSL /CONR/25-26/09/0431

Page: 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD Plant) Manali Express Highway, Manali, Chennai – 600 068.
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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/0431
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	Engine-5
1	Diameter	1.2m
2	Temperature	441 °K
3	Velocity	6.94 m/sec
4	Volume of Gas Discharged	17600 Nm <sup>3</sup> /hr

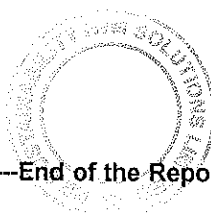
S.No.	Parameter	Unit	Test Method	RESULTS	Limit as Per MOEF Notification (Max)
1	Particulate Matter	mg/Nm <sup>3</sup>	IS:11255 (Part-1)-1985	BDL(DL:5.0)	10
2	Oxides of Nitrogen	mg/Nm <sup>3</sup>	IS:11255 (Part-7)-2005	65	350
3	Sulphur Dioxide	mg/Nm <sup>3</sup>	IS:11255 (Part-2)-1985	7.38	50
4	Carbon Monoxides as CO	mg/Nm <sup>3</sup>	RSIWMSL/LAB_SOP_34	BDL(DL:1.14)	150
5	Carbon Dioxide as CO <sub>2</sub>	%		4.2	--
6	Oxygen as O <sub>2</sub>	%		2.89	--

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

## Remarks:

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

Verified by



Authorized Signatory

End of the Report

**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-1174925000000764F

Test Report No: RSIWMSL /CONR/25-26/09/0432

Page: 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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/0432
Sampling Date	:19.09.2025	Sample description/Code	: Stack Emission
Sample received Date	:20.09.2025	Sample Location	: DG 500 KVA Stack
Sub-Contracting of Tests	: NA	Sample Collected by	: Re Sustainability IWM Solutions Ltd

**TEST RESULT**

S.No.	Stack Details	
1	Diameter	0.25 m
2	Temperature	413 °K
3	Velocity	12.88 m/sec
4	Volume of Gas Discharged	1614 Nm <sup>3</sup> /hr

S.No.	Parameter	Unit	Test Method	Results	Limit as Per MOEF Notification (Max)
1	Particulate Matter	g/kw-hr	IS:11255 (Part-1)-1985	0.077	<2.0
2	Oxides of Nitrogen	g/kw-hr	IS:11255 (Part-7)-2005	0.151	<4.0
3	Sulphur Dioxide	mg/Nm <sup>3</sup>	IS:11255 (Part-2)-1985	24.7	--
4	Carbon Monoxides as CO	g/kw-hr	RSIWMSL/LAB_SOP_34	0.328	<3.5
5	Carbon Dioxide as CO <sub>2</sub>	%		3.7	--
6	Oxygen as O <sub>2</sub>	%		14.7	--

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

**Remarks:**

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

  
 Verified by

  
 Authorized Signatory

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





Sustainability

## TEST REPORT

Test Report No: RSIWMSL /CONR/25-26/09/0433

Page: 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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	: SOP
Analysis Starting Date	:19.09.2025	Sample registration no	: RSIWMSL /25-26/09/Stack/0433
Sampling Date	:19.09.2025	Sample description/Code	: Stack Emission
Sample received Date	:20.09.2025	Sample Location	: Chlorine Scrubber (WAD) Stack
Sub-Contracting of Tests	: NA	Sample Collected by	: Re Sustainability IWM Solutions Ltd

## TEST RESULT

S.No.	Parameter	Unit	Test Method	RESULTS	Limit as Per MOEF Notification (Max)
1	Chlorine	mg/Nm <sup>3</sup>	RSIWMSL/LAB_SOP_77	4.06	10
Note: BDL – Below Detection Limit, DL – Detection Limit					

## Remarks:

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

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Authorized Signatory



Sustainability

## TEST REPORT

Test Report No: RSIWMSL /CONR/25-26/09/0434

Page: 1 of 1

Discipline: Chemical

Group: Atmospheric Pollution

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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	: SOP
Analysis Starting Date	:19.09.2025	Sample registration no	: RSIWMSL /25-26/09/Stack/0434
Sampling Date	:19.09.2025	Sample description/Code	: Stack Emission
Sample received Date	:20.09.2025	Sample Location	: HCL Scrubber Stack
Sub-Contracting of Tests	: NA	Sample Collected by	: Re Sustainability IWM Solutions Ltd

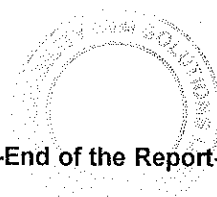
## TEST RESULT

S.No.	Parameter	Unit	Test Method	RESULTS	Limit as Per MOEF Notification (Max)
1	Hydrochloric Acid Mist	mg/Nm <sup>3</sup>	RSIWMSL/LAB_SOP_78	8.8	30
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



Sustainability

**TEST REPORT**

URL No:TC-1174925000000750F

Test Report No: RSIWMSL /CON/25-26/09/0418

Page: 1 of 1

Discipline: Chemical

Group : Water

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

Report Date	:10.10.2025	Sample Condition	: Sample received in Plastic Can-500 ml
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/0418
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	Mercury as Hg	mg/L	APHA 24 <sup>th</sup> Edition 3112 B:2023	BDL(DL:0.001)
<b>(Microbiology)</b>				
2	Total coliforms	MPN/100ml	IS 1622:1981	<2
3	Fecal coliforms	MPN/100ml	IS 1622:1981	<2

Note: BDL – Below Detection Limit, DL – Detection Limit, MPN – Most Probable Number

&lt;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.

*S. Shanmugam*  
Verified by  
(S.Shanmugam)

*S. Rajesh*  
Authorized Signatory - Biological  
(S.Rajesh)

*S. Subba Reddy*  
Authorized Signatory - Chemical  
(S.Subba Reddy)



End of the Report



TC-11749



Sustainability

**TEST REPORT**

URL No:TC-1174925000000751F

Test Report No: RSIWMSL /CON/25-26/09/0419

Page: 1 of 1

Discipline: Chemical

Group : Water

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

Report Date	:10.10.2025	Sample Condition	: Sample received in Plastic Can-500 ml
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/0419
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

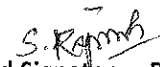
Sr.No	Parameters	Unit	Method	Result
1	Mercury as Hg	mg/L	APHA 24 <sup>th</sup> Edition 3112 B:2023	BDL(DL:0.001)
<b>(Microbiology)</b>				
2	Total coliforms	MPN/100ml	IS 1622:1981	<2
3	Fecal coliforms	MPN/100ml	IS 1622:1981	<2

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 except 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-----



TC-11749

**TEST REPORT**

URL No:TC-1174925000000752F

Test Report No: RSIWMSL /CON/25-26/09/0420

Page: 1 of 1

Discipline: Chemical

Group : Water

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

Report Date	:10.10.2025	Sample Condition	: Sample received in Plastic Can-500 ml
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/0420
Sampling Date	:29.09.2025	Sample description/Code	: Bore well water
Sample received Date	:30.09.2025	Sample Location	: Test Bore - 3
Sub-Contracting of Tests	: NA	Sample Collected by	: Re Sustainability IWM Solutions Ltd

Sr.No	Parameters	Unit	Method	Result
1	Mercury as Hg	mg/L	APHA 24 <sup>th</sup> Edition 3112 B:2023	BDL(DL:0.001)
<b>(Microbiology)</b>				
2	Total coliforms	MPN/100ml	IS 1622:1981	<2
3	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 except 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

URL No:TC-1174925000000753F

Test Report No: RSIWMSL /CON/25-26/09/0421

Page: 1 of 1

Discipline: Chemical

Group : Water

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

Report Date	:10.10.2025	Sample Condition	: Sample received in Plastic Can-500 ml
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/0421
Sampling Date	:29.09.2025	Sample description/Code	: Bore well water
Sample received Date	:30.09.2025	Sample Location	: Test Bore - 4
Sub-Contracting of Tests	: NA	Sample Collected by	: Re Sustainability IWM Solutions Ltd

Sr.No	Parameters	Unit	Method	Result
1	Mercury as Hg	mg/L	APHA 24 <sup>th</sup> Edition 3112 B:2023	BDL(DL:0.001)
<b>(Microbiology)</b>				
2	Total coliforms	MPN/100ml	IS 1622:1981	<2
3	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

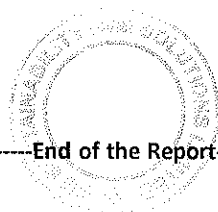
Remarks:

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Verified by  
(S.Shanmugam)

Authorized Signatory - Biological  
(S.Rajesh)

Authorized Signatory - Chemical  
(S.Subba Reddy)



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-117492500000754F

Test Report No: RSIWMSL /CON/25-26/09/0422

Page: 1 of 1

Discipline: Chemical

Group : Water

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

Report Date	:10.10.2025	Sample Condition	: Sample received in Plastic Can-500 ml
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/0422
Sampling Date	:29.09.2025	Sample description/Code	: Bore well water
Sample received Date	:30.09.2025	Sample Location	: Test Bore - 5
Sub-Contracting of Tests	: NA	Sample Collected by	: Re Sustainability IWM Solutions Ltd

Sr.No	Parameters	Unit	Method	Result
1	Mercury as Hg	mg/L	APHA 24 <sup>th</sup> Edition 3112 B:2023	BDL(DL:0.001)
<b>(Microbiology)</b>				
2	Total coliforms	MPN/100ml	IS 1622:1981	<2
3	Fecal coliforms	MPN/100ml	IS 1622:1981	<2

Note: BDL – Below Detection Limit, DL – Detection Limit, MPN – Most Probable Number

&lt;2 MPN Can be considered absent

Remarks:

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

*S. Shanmugam*  
Verified by  
(S.Shanmugam)

*S. Rajesh*  
Authorized Signatory - Biological  
(S.Rajesh)

*S. Subba Reddy*  
Authorized Signatory - Chemical  
(S.Subba Reddy)



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



## TEST REPORT

URL No:TC-1174925000000755F

Test Report No: RSIWMSL /CON/25-26/09/0423

Page: 1 of 2

Discipline: Chemical

Group: Pollution &amp; Environment

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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/0423
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 <sup>th</sup> Edition 2120 B:2023	75
2	Odour	-	IS 3025 :Part 5 : 2018	Disagreeable
3	Temperature	°C	APHA 24 <sup>th</sup> Edition 2550 B:2023	25.1
4	pH value @ 25°C	-	APHA 24 <sup>th</sup> Edition 4500-H+ B:2023	11.89
5	Total Suspended solids	mg/L	APHA 24 <sup>th</sup> EDN 2540 D: 2023	532
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 <sup>th</sup> Edition 2540 C:2023	13080
8	Oil & grease	mg/L	APHA 24 <sup>th</sup> Edition 5520 B:2023	BDL(DL:5.0)
9	Ammonical Nitrogen as N	mg/L	APHA 24 <sup>th</sup> Edition 4500 NH3 - B & C	2.76
10	Chlorides as Cl	mg/L	APHA 24 <sup>th</sup> Edition 4500-Cl B:2023	7622.6
11	Copper as Cu	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.5)
12	Fluoride as F <sup>-</sup>	mg/L	APHA 24 <sup>th</sup> Edition 4500- F B,D:2023	1.41
13	Free residual chlorine	mg/L	APHA 24 <sup>th</sup> Edition 4500-ClO2 B	BDL(DL:0.5)
14	Total Kjeldhal Nitrogen	mg/L	APHA 24 <sup>th</sup> Edition 4500-Norg C	4.61
15	Free ammonia	mg/L	APHA 24 <sup>th</sup> Edition 4500-NH3- F	BDL(DL:0.5)
16	Boron as B	mg/L	APHA 24 <sup>th</sup> Edition 4500- B B:2023	BDL(DL:1.0)
17	Nickel as Ni	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.2)
18	Sulphates as SO <sub>4</sub>	mg/L	APHA 24 <sup>th</sup> Edition 4500-SO4 E:2023	442
19	Percent sodium	%	RSIWMSL/LAB_SOP 019	87.4
20	Residual sodium carbonate	meq/L	RSIWMSL/LAB_SOP-057	BDL(DL:1.0)

Verified by  
(S.Shanmugam)

Authorized Signatory - Chemical  
(S.Subba Reddy)





URL No:TC-1174925000000755F

Test Report No: RSIWMSL /CON/25-26/09/0423


Page: 2 of 2

S.No	Parameters	Unit	Method	Result
21	Zinc as Zn	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.1)
22	Cadmium as Cd	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.1)
23	Lead as Pb	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	0.08
24	Mercury as Hg	mg/L	APHA 24 <sup>th</sup> Edition 3112 B:2023	BDL(DL:0.005)
25	Total arsenic as As	mg/L	APHA 24 <sup>th</sup> Edition 3114 B:2023	BDL(DL:0.002)
26	Total chromium as Cr	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.05)
27	Selenium as Se	mg/L	APHA 24 <sup>th</sup> Edition 3114 C:2023	BDL(DL:0.005)
28	Hexavalent Chromium as Cr <sup>+6</sup>	mg/L	APHA 24 <sup>th</sup> 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	23
30	Chemical Oxygen Demand	mg/L	APHA 24 <sup>th</sup> Edition 5220 B:2023	136
31	Total Cyanides as CN-	mg/L	APHA 24 <sup>th</sup> Edition 4500-CN C:2023	BDL(DL:0.01)
32	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/L	APHA 24 <sup>th</sup> Edition 5530 B & D:2023	BDL(DL:1.0)
33	Sulphide as S <sup>2-</sup>	mg/L	APHA 24 <sup>th</sup> Edition 4500-S <sup>2-</sup> F:2023	BDL(DL:1.0)
34	Dissolved Phosphates as P	mg/L	APHA 24 <sup>th</sup> Edition 4500-P B & C:2023	1.93
35	<b>Pesticides</b>			
	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 No: RSIWMSL /CON/25-26/09/0423

Discipline: Chemical


Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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/0423
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.	<b><u>Pesticides</u></b>			
	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.	<b><u>Radioactivity material</u></b>			
	Alpha Emitters	micro curie/ml	IS 41494 Part 2 : 2022	BDL(DL:1 X 10 <sup>-7</sup> )
	Beta Emitters	micro curie/ml	IS 41494 Part 1 : 2022	BDL(DL: 1 X 10 <sup>-6</sup> )

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

  
Verified by  
(S. Shanmugam)



  
Authorized Signatory - Chemical  
(S. Subba Reddy)

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



## TEST REPORT

URL No:TC-1174925000000756F

Test Report No: RSIWMSL /CON/25-26/09/0424

Sustainability

Page: 1 of 2

Discipline: Chemical

Group: Pollution &amp; Environment

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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/0424  
 Sampling Date :29.09.2025 Sample description/Code : Waste water  
 Sample received Date :30.09.2025 Sample Location : ETP Outlet  
 Sub-Contracting of Tests : NA Sample Collected by : Re Sustainability IWM Solutions Ltd

Sr.No	Parameters	Unit	Method	Result	TNPCB Limits
1	Colour	Hazen	APHA 24 <sup>th</sup> Edition 2120 B:2023	25	-
2	Odour	-	IS 3025 :Part 5 : 2018	Agreeable	-
3	Temperature	°C	APHA 24 <sup>th</sup> Edition 2550 B:2023	25.0	40°C
4	pH value @ 25°C	-	APHA 24 <sup>th</sup> Edition 4500-H+ B:2023	8.35	5.5 – 9.0
5	Total Suspended solids	mg/L	APHA 24 <sup>th</sup> EDN 2540 D: 2023	16	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 <sup>th</sup> Edition 2540 C:2023	9306	-
8	Oil & grease	mg/L	APHA 24 <sup>th</sup> Edition 5520 B:2023	BDL(DL:5.0)	10
9	Ammonical Nitrogen as N	mg/L	APHA 24 <sup>th</sup> Edition 4500 NH3 - B & C	BDL(DL:5.0)	50
10	Chlorides as Cl	mg/L	APHA 24 <sup>th</sup> Edition 4500-Cl B:2023	5923.2	-
11	Copper as Cu	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.5)	3.0
12	Fluoride as F <sup>-</sup>	mg/L	APHA 24 <sup>th</sup> Edition 4500- F B,D:2023	1.06	15
13	Free residual chlorine	mg/L	APHA 24 <sup>th</sup> Edition 4500-ClO2 B	BDL(DL:0.5)	1.0
14	Total Kjeldhal Nitrogen	mg/L	APHA 24 <sup>th</sup> Edition 4500-Norg C	13.69	100
15	Free ammonia	mg/L	APHA 24 <sup>th</sup> Edition 4500-NH3- F	BDL(DL:0.5)	5
16	Boron as B	mg/L	APHA 24 <sup>th</sup> Edition 4500- B B:2023	BDL(DL:1.0)	2.0
17	Nickel as Ni	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.2)	3.0
18	Sulphates as SO <sub>4</sub>	mg/L	APHA 24 <sup>th</sup> Edition 4500-SO4 E:2023	449.2	1000
19	Percent sodium	%	RSIWMSL/LAB_SOP 019	89.6	-
20	Residual sodium carbonate	meq/L	RSIWMSL/LAB_SOP-057	BDL(DL:1.0)	-

Verified by  
(S.Shanmugam)

Authorized Signatory - Chemical  
(S.Subba Reddy)



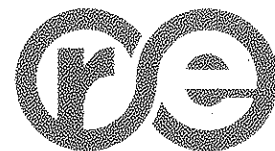
TC-11749

## 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

URL No:TC-1174925000000756F

Test Report No: RSIWMSL /CON/25-26/09/0424

Page: 2 of 2

S.No	Parameters	Unit	Method	Result	TNPCB Limits
21	Zinc as Zn	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.1)	1.0
22	Cadmium as Cd	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.1)	2.0
23	Lead as Pb	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.05)	0.1
24	Mercury as Hg	mg/L	APHA 24 <sup>th</sup> Edition 3112 B:2023	BDL(DL:0.005)	0.01
25	Total arsenic as As	mg/L	APHA 24 <sup>th</sup> Edition 3114 B:2023	BDL(DL:0.002)	0.2
26	Total chromium as Cr	mg/L	APHA 24 <sup>th</sup> Edition 3111 B:2023	BDL(DL:0.05)	2.0
27	Selenium as Se	mg/L	APHA 24 <sup>th</sup> Edition 3114 C:2023	BDL(DL:0.005)	0.05
28	Hexavalent Chromium as Cr <sup>+6</sup>	mg/L	APHA 24 <sup>th</sup> 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	8.0	100
30	Chemical Oxygen Demand	mg/L	APHA 24 <sup>th</sup> Edition 5220 B:2023	58.0	250
31	Total Cyanides as CN-	mg/L	APHA 24 <sup>th</sup> Edition 4500-CN C:2023	BDL(DL:0.01)	0.2
32	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	mg/L	APHA 24 <sup>th</sup> Edition 5530 B & D:2023	BDL(DL:1.0)	1.0
33	Sulphide as S <sup>2-</sup>	mg/L	APHA 24 <sup>th</sup> Edition 4500-S <sup>2-</sup> F:2023	BDL(DL:1.0)	2.0
34	Dissolved Phosphates as P	mg/L	APHA 24 <sup>th</sup> Edition 4500-P B & C:2023	1.49	5.0
35	<b>Pesticides</b>				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/25-26/09/0424

Discipline: Chemical

Group: Pollution & Environment

NAME AND ADDRESS OF THE CLIENT	M/S. Tamilnadu Petro Products Ltd, (HCD 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- 6/09/WW/0424  
Sampling Date :29.09.2025 Sample description/Code : Waste water  
Sample received Date :30.09.2025 Sample Location : ETP Outlet  
Sub-Contracting of Tests Radioactivity Sample Collected by : Re Sustainability IWM Solutions Ltd

Sr.No	Parameters	Unit	Method	Result	TNPCB Limits
1.	<b>Pesticides</b>				<b>Absent</b>
	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.	<b>Radioactivity material</b>				
	Alpha Emitters	micro curie/ml	IS 41494 Part 2 : 2022	BDL(DL:1 X 10 <sup>-7</sup> )	1 X 10 <sup>-7</sup>
	Beta Emitters	micro curie/ml	IS 41494 Part 1 : 2022	BDL(DL: 1 X 10 <sup>-6</sup> )	1 X 10 <sup>-6</sup>

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

Verified by  
(S.Shanmugam)



Authorized Signatory - Chemical  
(S.Subba Reddy)

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

## HCD GB INSIDE THE PLANT AREA (5 ACRES)

### BEFORE





**AFTER**

**As on August 2025**





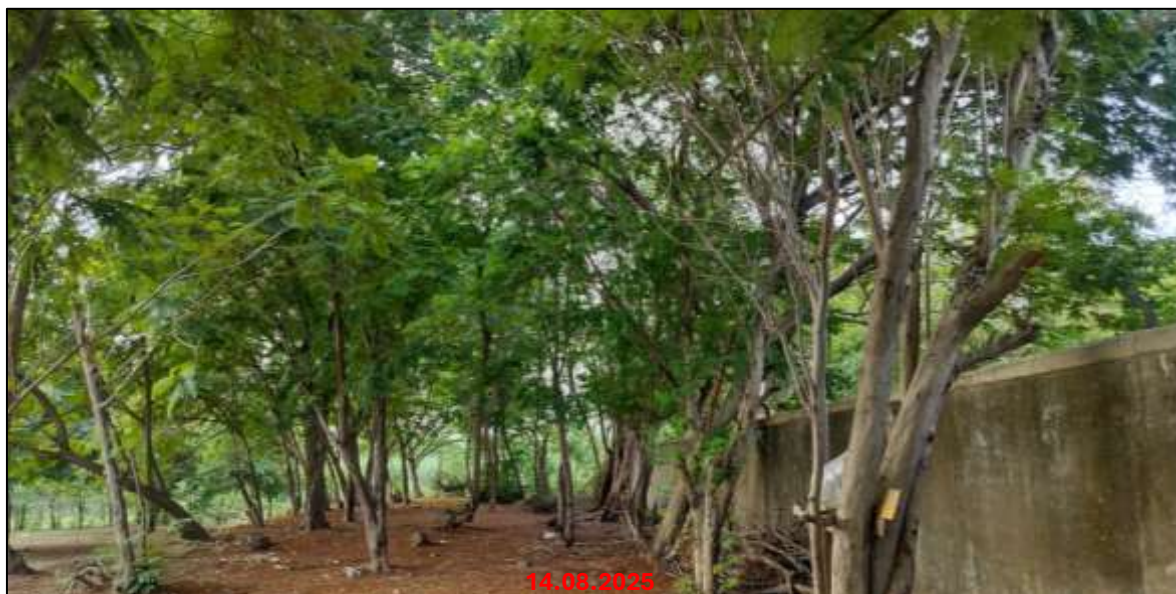


## GB FOR TPL-HCD PLANT (Outside- 9Acres)

### While Developing GB



As on date -Aug'25







#### HCD PLANT Green Belt Saplings Details:

S.No	Tree Name	HCD Plant inside	PAPL plant
1	Neem/ Azadirachta indica	300	200
2	Pungan/ Mmillettia Pinnata	1000	2000
3	Gulmohar/ Delonix regia	50	40
4	Rain Tree/ Samanea saman	40	170
5	Manthaarai/ Bauhinia acuminata	20	40
6	Kadambu/ Neolamarckia cadamba	20	300
7	Poovarasan/ Thespesia populania	800	1200
8	Baadham/ Terminalia catappa	300	610
9	pritchardia pacifica/Fiji Fan Palm	12	
10	Casuarina equisetifolia/savukku	20	180
11	Mahilam/ Mimusops elengi	40	
12	Arasamaram/ Ficus religiosa	55	45
13	Aalamaram/Ficus benghalensis	60	80
14	Naaval / Syzygium cumini	50	320
15	Ashoka / Saraca asoca	150	
16	phyllanthusemblica/Nelli		620
17	Leucaena leucocephala/subabul	1000	600
18	Adenanthera pavonina/Red Bead Tree		200
19	Conacarpus	660	800
20	GoldenShower/ Cassia Fistula	280	325
21	Maramalli / Millingtonia	120	420
22	Vilvam/ Aegle marmelos	3	
23	Ilupai / Madhuca longifolia		40
24	Mango / Mangifera indica	20	
25	Naagalingam / Couroupita guianensis		260
26	Tamarind / Tamarindus indica		550
<b>Total</b>		<b>5000</b>	<b>9000</b>

survival rate of plantation is 85%

## Support to the Health care facility at Tiruvottiyur Government Hospital





