



# Tamilnadu Petroproducts Limited

Ref: TPL / ECH – PO / 2018/

16<sup>th</sup> October 2018

The Director (S)  
Ministry of Environment & Forest,  
Regional Office, First & Second floor  
Handloom Export Promotion Council  
34, Cathedral Garden Road  
Nungambakkam,  
Chennai – 600 034.

Dear Sir,

Sub: TPL – ECH Plant - Environmental Clearance (EC) – Six month Compliance Report – April 18 to Sep 18 – reg.

Ref: 1) F.No. J-11011/280/2013-IA-II(I) dated 15.05.2015

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This has reference to the Environmental Clearance (EC) obtained from MoEF, New Delhi for Product Mix change at existing ECH plant located at Manali, Chennai.

We obtained Environmental Clearance (EC) from MOEFCC vide Lr Ref.J-11011/280/2013-IA-II(I) dated 15.05.2015 and subsequently we obtained amendment vide Lr. Ref. J-11011/280/2013-IA-II(I) dated 31.01.2017 for disposal of treated effluent to sea through existing MPL plant's marine disposal effluent pipeline.

In continuation to the above, we obtained Consent to Establish (CTE) from Tamilnadu Pollution Control Board vide Consent order No. 170612870719 and 170622870719 dated 28.03.2017 under Water and Air Acts and the site construction is in progress. The conditions prescribed in the EC and its amendment shall be complied during construction and before commissioning of the plant.

In this regard, we attach herewith the Six month EC compliance status report for the period from April 2018 to September 2018 for your reference and record.

Thanking you,

Yours faithfully,  
For Tamilnadu Petroproducts Limited

D. Senthikumar  
Whole Time Director – Operation.



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TPL GSTIN : 33AAACT1295M1Z6



**Environmental Clearance Compliance Status Report  
For the period from April 2018 to September 2018**

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

**( A ) Specific Condition:**

No	Condition	Status
I	<p>Caustic scrubber shall be provided to control Chlorine emissions. The scrubbed water should be sent to ETP for further treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. Scrubber vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters. At no time, the emission levels shall go beyond the prescribed standards. The system should be interlocked with the pollution control equipments so that in case of any increase in pollutants beyond permissible limits, plant should be automatically stopped.</p>	<p>Caustic scrubber is provided to control Chlorine emissions.</p> <p>Scrubber shall be operated efficiently monitored and maintained and scrubbed water shall be sent to ETP for further treatment.</p> <p>Online Chlorine analyser is procured. Monitoring data shall be connected to TNPCB/CPCB while put in operation.</p> <p>Monitoring system is provided with interlock.</p>
ii	<p>Ambient air quality data shall be collected as per NAAQS standards notified by the ministry vide GSR No. 826 (E) dated 16.09.2009. the levels of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Cl<sub>2</sub>, VOC and HC (methane and non-methane) shall be monitored in the ambient air and emission from stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the Tamilnadu Pollution Control Board /TNPCB)</p>	<ul style="list-style-type: none"> <li>• Ambient Air Quality Online analyser is provided for monitoring PM<sub>10</sub>, PM<sub>2.5</sub>, Chlorine and VOC.</li> <li>• Online Stack analyser is provided in Boiler stack for monitoring PM, SO<sub>2</sub>, NO<sub>x</sub> and CO.</li> <li>• Continuous online stack analyser is provided in scrubber stack for Chlorine monitoring.</li> <li>• Monitoring data will be connected to TNPCB/CPCB while put in operation.</li> <li>• Electronic Display Board is provided at the main gate and Air quality and emission monitoring results will be displayed continuously.</li> <li>• Presently DG is not in operation. Online stack analysers shall be provided in DG stack for monitoring PM, SO<sub>2</sub>, NO<sub>x</sub>, and CO and data shall be connected to TNPCB/CPCB while put in operation.</li> <li>• Ambient Air Quality monitoring shall be periodically monitored through</li> </ul>

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		internal / external accredited laboratory as per the NAAQS standard notified by MOEFCC. The monitoring results shall also be sent to Regional offices, zonal office and TNPCB periodically and also uploaded in the TPL website and updated periodically.
iii	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling and conveyance of chemical/materials, multi cyclone separator and water sprinkler system. Dust suppression system including water sprinkler system shall be provided at loading and unloading areas to control dust emissions. Fugitive emission in the work zone environment. Product, war materials storage area, etc., shall be regularly monitored. All necessary steps should be taken for monitoring of Chlorine as well as VOC in the proposed plant.	Raw material and products are handled in closed pipelines. Lime is being handled in a closed shed. The storage areas, loading and unloading areas shall be regularly monitored and housekeeping shall be maintained to control fugitive emission.
iv	The gaseous emissions from DG set shall be disposed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Adequate stack height as per the CPCB standard is provided for DG set stack and necessary acoustic enclosure are provided to mitigate the noise pollution.
V	Leak Detection and Repair programme shall be prepared and implemented to control HC/VOC emissions. Focus shall be given to prevent fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to. Fugitive emissions of HC from product storage tank yards etc., must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations. Company shall protect their equipments from aging.	Leak Detection And Repair (LDAR) programme shall be prepared and implemented to control HC/VOC emission. Preventive maintenance schedule of pumps, valves and pipelines are provided and followed. Mechanical seals of pumps and valves shall be properly maintained. Preventive maintenance schedule for each unit shall be prepared and shall be adhered. Online detector for monitoring VOC / HC is provided in the propylene storage bullet area

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vi	Alarm for chlorine leakage if any in the liquid chlorine storage area is provided along with automatic start of the scrubbing system.	Chlorine is not stored in the storage tanks in ECH – PO plant. Chlorine is transferred through pipeline from the sister concern HCD plant located opposite side of ECH plant. Online Chlorine analyser with alarm is provided in the scrubber stack.																
vii	Total water requirement from CMWSSB water supply shall not exceed 1650 m <sup>3</sup> /day and prior permission should be obtained from competent authority.	Water requirement shall not be exceeded from the authorised quantity of 1650 m <sup>3</sup> /day.																
viii	As proposed, industrial effluent shall be treated in ETP. Treated effluent from ETP shall be discharged to sea after conforming to the standards prescribed for the effluents discharge and obtaining permission from the TNPCB. Domestic sewage should be treated in STP.	Effluents generated from PO plant shall be treated in the Effluent Treatment plant and the treated effluent shall be disposed to sea after conforming to the prescribed standards with the permission of TNPCB. Sewage effluent shall be treated in STP.																
ix	Treated effluent should be passed through guard pond. Monitoring (24*7) through online pH meter, flow meter and TOC analyser should be installed. The data to be made available to the respective SPCB and in the company's website.	Online Monitoring System for water monitoring is provided for the parameters pH, TOC (BOD/COD), TSS, Flow and Temperature. Monitoring data shall be connected to TNPCB/CPCB while put in operation.																
x	The company shall obtain Authorisation for collection, storage and disposal of hazardous waste under the Hazardous waste (MH and TB) Rules 2008 and amended as on date for management of Hazardous wastes and prior permission from TNPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency.	<p>Hazardous waste authorisation is obtained from TNPCB as per Hazardous waste (MH and TB) Rules 2008 for disposal of hazardous waste generated at PO plant. Authorisation No: 3563 valid up to 10.03.2020.</p> <table border="1" data-bbox="948 1462 1509 1854"> <thead> <tr> <th>No</th> <th>Haz. Waste</th> <th>Schedule</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Used oil</td> <td>Schedule - 5.1</td> <td>2.0 T / Annum</td> </tr> <tr> <td>2</td> <td>Waste Oil</td> <td>Schedule -5.2</td> <td>140 T / Annum</td> </tr> <tr> <td>3</td> <td>Chemical sludge from waste water treatment</td> <td>Schedule - 34.3</td> <td>300 T / Year</td> </tr> </tbody> </table> <p>Fire fighting facilities are provided to mitigate emergency.</p>	No	Haz. Waste	Schedule	Qty	1	Used oil	Schedule - 5.1	2.0 T / Annum	2	Waste Oil	Schedule -5.2	140 T / Annum	3	Chemical sludge from waste water treatment	Schedule - 34.3	300 T / Year
No	Haz. Waste	Schedule	Qty															
1	Used oil	Schedule - 5.1	2.0 T / Annum															
2	Waste Oil	Schedule -5.2	140 T / Annum															
3	Chemical sludge from waste water treatment	Schedule - 34.3	300 T / Year															

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xi	The company shall strictly comply with the rules & guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA) 1989	Hazardous chemicals shall be handled as per the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 and Hazardous Chemicals shall be transported as per the Motor Vehicle Act (MVA) 1989.
xii	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. Fire hydrant system shall be provided along with fire monitor and flame detection system in the process as well as storage areas.	Fire fighting system inclusive of fire water reservoir, fire water pumps, fire hydrants, water monitors, Portable extinguisher and flame detection system is provided and covered to the entire plant area.
xiii	All the recommendations made in the risk assessment report should be satisfactorily implemented.	All the recommendations given in the risk assessment report are complied.
xiv	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories Act	Occupational health surveillance for regular employees and new employees shall be carried out and the health records shall be maintained as per the Factories Act.
xv	As proposed, greenbelt should be developed at least 48561 m <sup>2</sup> area in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO. Selection of plant species should be as per the CPCB guidelines.	Green belt has been developed for 48560 m <sup>2</sup> area in and around the plant premises to mitigate the effects of fugitive emission.
xvi	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc., the housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Contract workers for construction activity are engaged from nearby location and hence housing facility is not provided. Construction wastes shall be properly managed.

**( B ) General Condition:**

	Conditions	Compliance Status
i	The project authorities shall strictly adhere to the stipulations made by the State Government and TN Pollution Control Board.	All stipulations prescribed by the State Government and TN Pollution Control Board shall be complied
ii	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Shall be complied. Expansion or Modification shall be carried out after getting prior approval of the Ministry of Environment and Forests.
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentration are anticipated.	Locations of ambient air quality monitoring stations shall be decided as per the TNPCB requirement. Also shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentration is anticipated.
iv	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc., on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act 1989 viz 75 dBA (day time) and 70 dBA (night time)	Adequate noise control measures including acoustic hoods, silencers, enclosures, etc., shall be installed at all sources of noise generation and the noise level shall confirm the prescribed standards.
v	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Rain water harvesting facility was provided in Mechanical workshop and Fire water pump house building to collect rain water into freshwater reservoir. The harvested water will be utilised for process activities to conserve fresh water. Rain water harvest area: Sq.m Recharge percolation pits were provided to recharge the ground water.

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vi	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Safety induction training for new employees and safety refreshing training for regular employees shall be conducted on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.
vii	Usage of personal protective Equipments (PPEs) by all employees / workers shall be ensured	Usage of Personal protective Equipments (PPEs) by all employees / workers shall be strictly ensured
viii	The company shall also comply with all the environmental protection measures and safe guards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management. Risk mitigation measures and public hearing relating to the project shall be Implemented.	All the recommendations made in the EIA/EMP in respect of environmental management, Risk mitigation measures and public hearing relating to the project shall be implemented to protect the environment.
ix	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area CSR activities shall be undertaken by involving local villages and administration.	Recently we have taken following CSR activities at Sadayankuppam Panchayat Union Middle School, Manali 1) Additional class rooms (2 Rooms) 2) False ceiling 3) Civil work in Toilet 4) Painting works for interior & exterior wall
x	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	5) Ceiling fan, Tube lights, Electrical switch boxes 6) Front side compound wall with gate 7) Note books issued to school children. 8) Metal Bridge connecting Sadayankuppam and Express highway was repainted.
xi	A separate Environmental management cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental management cell equipped with full fledged laboratory facilities shall be set up for carrying out the Environmental Management and Monitoring functions.
xii	The company shall earmark sufficient funds towards capital cost and recurring cost/annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State	Adequate funds shall be allocated and the funds so earmarked for environmental management / pollution control measures shall not be diverted for any other purpose.

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	Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environmental management / pollution control measures shall not be diverted for any other purpose.	
xiii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat / Municipal corporation, urban local body and local NGO, if any from who suggestions/representations, if any were received while processing the proposal.	No suggestions / representations received from concerned Panchayat / Municipal corporation, urban local body and local NGO.
xiv	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as email) to the respective Regional office of MoEFCC, the respective Zonal office of CPCB and the TN pollution Control Board. A copy of Environmental clearance and six monthly compliance status report shall be posted on the website of the company.	Complied Six monthly reports on the status of the compliance of the stipulated environmental clearance conditions including results of monitored data is being submitted to MOEFCC regional office/Zonal office/TNPCB.  A copy of Environmental clearance and six-monthly compliance status report is posted on the website of the company.
xv	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form – V as is mandated shall be submitted to the concerned State pollution Control Board as prescribed under Environment (Protection) Rules 1986, as amended subsequently shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also sent to the respective Regional offices of MoEF by email.	Complied. The environmental statement (Form – v) for the period April 17 – March 18 was submitted to TNPCB on 25.09.2018. A copy of Form V is posted on the website of the company.
xvi	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB / Committee and may also be seen at website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . this shall be advertised within seven days from the date of issue of the clearance letter, at	Complied. Details of the Environment clearance obtained from the MOEFCC was advertised in English and Tamil news paper. Copy of the public notice is attached.



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	least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	
xvii	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	The date of financial closure and final approval of the project by the concerned authorities and the date of start of the project shall be informed to the MOEF regional offices.

TPL – ECH – PO Plant

## Environmental Clearance – Newspaper Advertisement

**TPL**  
**Tamilnadu Petroproducts Limited**  
Regd. Office & Factory: Manali Express Highway,  
Manali, Chennai 600 068  
CIN: L23200TN1984PLC010931  
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**PUBLIC NOTICE**

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

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

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

FINANCIAL EXPRESS

DATE: 10<sup>th</sup> October 2018

**TPL**  
**தமிழ்நாடு பெட்ரோப்ரொடக்ட்ஸ் லிமிடெட்**  
பதிவு அலுவலகம்: மணலி எக்ஸ்பிரஸ்  
ஹைவே, மணலி, சென்னை - 600 068.  
தி.ப.எ: L23200TN1984PLC010931  
தொலைபேசி: 044-25945588  
வலைத்தளம்: www.tnpetro.com  
மின்னஞ்சல்: secy-legal@tnpetro.com

**பொது அறிவிப்பு**

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

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

இடம்: சென்னை - 600068  
தேதி: 9.10.2018  
உதவி பொது மேலாளர் - மனிதவளம்

மக்கள் குரல்

தேதி: 10.10.2018