Tamilnadu Petroproducts Limited

Ref: TPL - PO/ 2024/EC Comp/05

7<sup>th</sup> May- 2024

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

Dear Sir,

Sub: TPL – ECH – PO Plant – Environmental Clearance (EC) – Six Monthly Compliance Report - Oct 2023 to Mar-2024 - reg.

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

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

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We herewith attach the EC compliance status report for the period from October 2023 to March 2024 for your kind reference.

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Thanking you,

Yours faithfully, For Tamilnadu Petroproducts Limited





Regd. Office & Factory : Post Box No. 9, Manali Express Highway, Manali, Chennai - 600 068. India. Tel. : (0091) - 44 - 25945500 to 09 Telefax : 044-2594 5588 Website : www.tnpetro.com CIN : L23200TN1984PLC010931 TPL GSTIN: 33AAACT1295M1Z6

## Environmental Clearance Compliance Status Report For the period from Oct 2023 to Mar 2024

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

### (A) Specific Condition:

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



ii	Ambient air quality data shall be collected	Complied
	as per NAAQS standards notified by the	• Ambient Air Quality (AAQ) is
	ministry vide GSR No. 826 (E) dated	monitored manually at 2 locations
	16.09.2009 the levels of $PM_{10},PM_{2.5},SO_2,$	through accredited lab as per NAAQS
	NOx, CO, $Cl_2$ , VOC and HC (methane and	standards notified by the ministry vide
	non-methane) shall be monitored in the	GSR No. 826 (E) dated 16.09.2009 for
	ambient air and emission from stacks and	12 parameters, once in 6 months
	displayed at a convenient location near	basis.
	the main gate of the company and at	• Ambient Air Quality (AAQ) is being
	important public places. The company	monitored at 2 locations for the
	shall upload the results of monitored data	parameters such as PM2.5, PM10, SO2,
	on its website and shall update the same	CO, NO <sub>x</sub> , Ammonia, Chlorine by
	periodically. It shall simultaneously be	internal lab once in a week.
18	sent to the Regional office of MOEF, the	• Stack emissions are monitored
	respective Zonal office of CPCB and the	through accredited lab, once in 6
	Tamilnadu Pollution Control Board	months basis.
	/TNPCB)	Online continuous Ambient Air Quality
		monitoring equipment as well as
		online continuous stack monitoring
		equipment are installed and the real
		time monitored data are being
		transmitted to TNPCB and CPCB's
		servers.
		• The real time data are also displayed
		near the main gate of the company.
		•The monitored data are uploaded on
		the company's website and also being
		updated periodically.
		• In addition to this the manually
		monitored data are being submitted
		to TNPCB on monthly basis and CPCB
		as well as the Regional office of MoEF
		once in six months.
111	In plant control measures for checking	Complied
	fugitive emissions from all the vulnerable	The following measures are taken to
	sources shall be provided. Fugitive	control the fugitive emission.
	emissions shall be controlled by providing	• HC and Chlorine detectors are
	closed storage, closed handling and	provided with alarm systemerto
	conveyance of chemical/materials, multi	monitor fugitive emission regularly

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	cyclone separator and water sprinkler	in the work zone environment,
	system. Dust suppression system	Product, raw materials and storage
	including water sprinkler system shall be	area.
	provided at loading and unloading areas	• Raw material Propylene is stored in
	to control dust emissions. Fugitive	bullets with sensors/detectors.
_	emission in the work zone environment.	Chlorine is received through pipeline
	Product, Raw materials storage area, etc.,	from the adjacent Heavy Chemicals
	shall be regularly monitored. All	Division of the same company,
	necessary steps should be taken for	thereby avoiding any potential
	monitoring of Chlorine as well as VOC in	emissions while handling Cylinders
	the proposed plant.	Propylene Oxide (PO) and
		Chlorinated Organics are stored in
		closed tanks with sensors/detectors
( )		and handled in closed pipelines.
		• Lime (bags) is stored in a closed shed.
		• Water sprinkling is being carried out
		at lime Loading and unloading area
		for dust suppression.
		Ambient Air Quality (AAQ) is
		monitored for Chlorine and VOC
		manually at 2 locations through
	이 같은 것은 것이 같은 것이 같다.	accredited lab.
		• Chlorine in the Ambient Air is
		monitored at 2 locations by internal
		lab once in a week.
		• Online analysers for Chlorine and
		VOC are installed for continuous
		monitoring and the real time
		<b>U</b> .
- *:		U
		transmitted to TNPCB and CPCB's
•		servers
iv	The gaseous emissions from DG set shall	Complied.
	be disposed through adequate stack	Adequate stack height in DG set is
	height as per CPCB standards. Acoustic	provided, as per the CPCB standard to
	enclosure shall be provided to the DG sets	dispose gaseous emission from DG set.
	to mitigate the noise pollution.	Stack height is 31.5m.
		Presently DG set is not in operation and
		decommissioned.
		18/

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5	Ambient Noise level is monitored manually by internal lab once in a month.
v Leak Detection and Repair programme shall be prepared and implemented to control HC/VOC emissions. Focus shall be given to prevent fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to. Fugitive emissions of HC from product storage tank yards etc., must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations. Company shall protect their equipment from aging.	<ul> <li>Complied</li> <li>Leak Detection And Repair (LDAR) programme is prepared and is being implemented to control HC/VOC emissions.</li> <li>LDAR survey is being carried out through accredited laboratory once in a year.</li> <li>LDAR survey has been conducted through M/s. Hubert Enviro Care System (P) Ltd, Chennai in April-2024.</li> <li>Preventive maintenance for Pumps are carried out once in six months.</li> <li>Preventive maintenance for Valves and pipelines are carried out once in a year</li> <li>Proper maintenance and preventive checks for mechanical seals of pumps and valves are carried out once in six months by internal team.</li> <li>VOC detectors are installed at Product Storage Yard (Propylene Oxide and Propylene Storage tanks area) to monitor fugitive emission continuously.</li> <li>VOC detectors/sensors are provided in the work zone environment, Product, Raw materials storage area for continuous monitoring.</li> <li>Proper maintenance program is developed &amp; implemented to protect equipment from ageing.</li> </ul>



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



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



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

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Sensors with alarm systems are provided in the storage bullets Fire hydrant system is provided throughout the storage area. Regular mock drill is being conducted. Onsite emergency plan is available and recommendations are being implemented. mplied cupational health surveillances are ing conducted for employees riodically, as per the Factories Act. alth records are available and being aintained as per the Factories Act.
cupational health surveillances are ing conducted for employees riodically, as per the Factories Act. alth records are available and being aintained as per the Factories Act.
mplied
een belt is developed in 48561 m <sup>2</sup> 8562 Hectare) area in and around the story premises to mitigate the effects fugitive emissions all around the story. ant species are selected as per the CB guidelines.
mplied ntract workers were engaged for nstruction activity from nearby cation and hence housing facility was t provided during the construction ne. However other facilities such as let, safe drinking water, medical cilities were provided to the nstruction workers during the nstruction time. nstruction wastes were disposed



	General Conditions	-
i	The project authorities shall strictly	Complied
	adhere to the stipulations made by the	All the stipulations made by the State
	State Government and TN Pollution	Government and TN Pollution Control
	Control Board.	Board are being adhered regularly.
ii	No further expansion or modification in	Complied.
	the plant shall be carried out without	No further expansion or modification in
	prior approval of the Ministry of	the plant will be carried out, without
	Environment and Forests.	prior approval of the Ministry of
	In case of deviations or alterations in the	Environment and Forests.
	project proposal from those submitted to	Fresh reference were not made to the
	this Ministry for clearance, a fresh	Ministry to assess the adequacy of
	reference shall be made to the Ministry to	conditions imposed and to add
	assess the adequacy of conditions	additional environmental protection
	imposed and to add additional	measures required as there were no
	environmental protection measures	deviations or alterations in the project
	required, if any.	proposal.
iii	The locations of ambient air quality	Complied
	monitoring stations shall be decided in	Locations of ambient air quality
	consultation with the State Pollution	monitoring stations are selected to
	Control board (SPCB) and it shall be	monitor ambient air quality as per giver
	ensured that at least one station is	guidelines & in consultation with
	installed in the upwind and downwind	TNPCB.
	direction as well as where maximum	One mobile monitoring station in the
	ground level concentration are	upwind and one mobile monitoring
	anticipated.	station in the downwind direction are
		provided for ambient air quality
		monitoring, which includes where
		maximum ground level concentration is
		anticipated.
iv	The overall noise levels in and around the	Complied
IV	plant area shall be kept well within the	Acoustic hoods, silencers, enclosures
	standards by providing noise control	etc., are provided at DG sets to keep the
	measures including acoustic hoods,	noise level within the prescribed
	silencers, enclosures, etc., on all sources	standards.
	of noise generation. The ambient noise	Ambient noise levels at five location
	levels shall conform to the standards	are being monitored manually during
	prescribed under Environment	day and night time by internal lab once
		in a month.

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



• N p tr s m • R p tr e • N	ort are being implemented regularly. litrogen gas padding is provided in propylene oxide storage and during ransfer, to prevent air entering the system and forming explosive nixture. temote operated shut off valve is provided at inlet of reactor feed line o cut off chlorine, in case of
p tr s m • R p to e • N	propylene oxide storage and during ransfer, to prevent air entering the system and forming explosive mixture. Remote operated shut off valve is provided at inlet of reactor feed line
p to e	provided at inlet of reactor feed line
	mergency. Manual isolation at HCD plant and utomatic shutoff valve at ECH plant
	re provided in the chlorine pipelines.
л • р р	Aedium velocity sprinkler system is provided to propylene oxide and propylene storage bullets. Dyke is provided in the storage area
t	o contain spill.
	encing is provided with security, to he entire storage area.
s • T	Entry is restricted to 50 m from the torage area and being ensured. The area around the storage is free of ignition sources and other
	azards. Sensors with alarm systems are
• F	provided in the storage bullets Fire hydrant system is provided
• F	hroughout the storage area Regular mock drill is being conducted.
a	Dnsite emergency plan is available and recommendations are being mplemented.
The company shall undertake all relevant Beir	ng Complied
	owing social upliftment schemes are ng carried out in the nearby area.



	area CSR activities shall be undertaken by	1) Primary Health Care Centre (PHCC)
	involving local villages and	is provided at the following locations
	administration.	to cater to the primary health care
		needs of the people residing in
		nearby areas.
		<ul> <li>PHCC is provided at Sadayan</li> </ul>
		Kuppam village, Manali
		• PHCC is provided at Vichoor
		village, Manali
		<ul> <li>PHCC is provided at</li> </ul>
		Seemavaram village
		PHCC is provided at
		Kannampalayam village
		<ul> <li>Mobile PHCC is provided.</li> </ul>
		2) Rest Rooms were constructed at the
		following locations.
		<ul> <li>Government high school at Manali</li> </ul>
		New Town.
		• Government high school at Redhills.
		Government high school at Vichoor.
		Government high school at
		Padiyanallur
	The company shall undertake eco-	Complied
	developmental measures including	Eco-developmental measures (mainly
х	community welfare measures in the	<b>o</b>
	project area for the overall improvement	improve the environment.
ю	of the environment.	
	A separate Environmental management	Complied
	cell equipped with full fledged laboratory	A separate Environmental management
	facilities shall be set up to carry out the	cell equipped with full-fledged
vi	Environmental Management and	laboratory facilities is established for
XI	Monitoring functions.	carrying out the Environmental
		Management and Monitoring functions.
		In addition, third party laboratory is also
		engaged for monitoring.
	The company shall earmark sufficient	Complied
	funds towards capital cost and recurring	Adequate funds towards capital cost
xii	cost/annum to implement the conditions	and recurring cost/annun are allocated
	stipulated by the Ministry of Environment	to implement the conditions stipulated
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	and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environmental management / pollution	by the Ministry of Environment and Forests as well as the State Government. Implementation schedules are prepared for all the conditions stipulated herein and are implemented. Complied Funds earmarked for environmental
	control measures shall not be diverted for any other purpose.	management / pollution control measures, are not diverted for any other purpose.
xiii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat / Municipal corporation, urban local body and local NGO, if any from who suggestions/representations, if any were received while processing the proposal.	Complied No suggestion was received from Panchayat / Municipal corporation urban local body and local NGO while processing the proposal.
xiv	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as email) to the respective Regional office of MoEF, the respective Zonal office of CPCB and the TN pollution Control Board.	Complied Six monthly reports on the status of the compliance of the stipulated environmental clearance conditions including results of monitored data is submitted to MOEF Regional Office through e-mail regularly.
	A copy of Environmental clearance and six-monthly compliance status report shall be posted on the website of the company.	Complied. Six monthly compliance reports including monitoring data are uploaded in our company's website (www.tnpetro.com) and also updated periodically.
xv	The environmental statement for each financial year ending 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	Complied The environmental statement (Form V) is being submitted to TNPCB once in a year before 30 <sup>th</sup> Sep every year

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	subsequently shall also be put on the	Environmental statement (Form V) for
	website of the company along with the	the year 2022 – 2023 was submitted on
	status of compliance of environmental	27.09.2023.
	clearance conditions and shall also sent to	Further, a copy of Form V is uploaded in
	the respective Regional offices of MoEF	the company's website.
	by email.	(www.tnpetro.com)
		The six-monthly compliance status
-		including results of monitored data is
		being submitted to MOEF Regional
		Office through e-mail regularly.
	The project proponent shall inform the	Complied
	public that the project has been accorded	Advertisements in two local news
	environmental clearance by the Ministry	papers (In English in The Financial
-	and copies of the clearance letter are	Express and in Tamil in Makkal Kural)
	available with the SPCB / Committee and	was published on 10.10.2018 and copies
	may also be seen at website of the	of the same were submitted to the
	Ministry at http;//envfor.nic.in. this shall	Regional Office.
xvi	be advertised within seven days from the	
	date of issue of the clearance letter, at	
	least in two local news papers that are	
	widely circulated in the region of which	
	one shall be in the vernacular language of	
	the locality concerned and a copy of the	
	same shall be forwarded to the concern	
	Regional Office of the Ministry.	
	The project authorities shall inform the	Complied
	Regional Office as well as the Ministry,	Details the date of financial closure and
	the date of financial closure and final	final approval of the project by the
xvii	approval of the project by the concerned	concerned authorities and the date of
	authorities and the date of start of the	start of the project were informed to
	project.	Regional Office, MoEF&CC.
		TROPRODU



### Environmental Clearance – News paper Advertisement

STREET STRE Tamilnadu Petroproducts Limited தமிழ்நாடு பெட்ரோப்ராடக்ட்ஸ் லிமிடெட் பதிவு அலுவலகம்: மணலி எக்ஸ்பிரஸ் ஹைவே, மணலி, சென்னை-600 068. Regd.Office & Factory: Manali Express Highway, Manali, Chennai 600 068. Bua: L23200TN1984PLC010931 CIN: L23200TN1984PLC010931 தொலைபேசி: 044-25945588 Telefax: 044-25945588 வலைதளம்: www.tnpetro.com Website: www.tnpetro.com மின்னஞ்சல்: secy-legal@tnpetro.com E-mail: secy-legal@tnpetro.com பொது அறிவிப்பு PUBLIC NOTICE தமிழ்நாடு பெட்ரோப்ராடக்ட்ஸ் லிமிடெட், மணலி, சென்னை 600 068ல் This is to inform that the Ministry of புரோப்பிலீன் ஆக்ஸைடு புரோப்பிலீன் ஆக்ஸைடு தயாரிக்கும் மாற்று பொருள் உற்பத்தித் திட்டத்திற்கு Environment, Forests and Climate Change, மத்திய சுற்றுச்சுழல், வனத்துறை மற்றும் New Delhi vide their letter No. காலநிலை மாற்றம் அமைச்சகத்தின் சுற்றுச்சுழல் அனுமதி வழங்கப்பட்டுள்ளது (கடிதம் எண். J-11011/280/2013-IA-II(I) dated 15th May 2015 have accorded Environmental Clearance for the Product mix change to manufacture J-11011/280/2013-IA-II(I)Dated 15.05.2015). Propylene Oxide in the existing TPL-ECH மேற்படி திட்டத்திற்கான சுற்றுச்சுழல் அனுமதி கடிதத்தின் நகல் தமிழ்நாடு மாசகட்டுப்பாடு வாரியம்/கமிட்டி, plant, Manali, Chennai - 600 068, Tamilnadu. Copy of the Environmental Clearance letter சென்னை அலுவலகத்தில் உள்ளது. referred above for the proposed project is மேலும் இக்கடிதத்தின் நகலை மத்திய available at Tamilnadu Pollution Control சுற்றுச்சுழல், வனத்துறை மற்றும் காலநிலை மாற்றம் அமைச்சகத்தின் Board/Committee, Chennai and can also be இணையத்தளத்திலும் (http://envfor.nic.in) seen at website of the Ministry of Environment, Forests and Climate Change காணலாம். at http://envfor.nic.in. இடம் : சென்னை - 600068 தேதி: 9.10.2018 Place : Chennai - 600 068 AGM - HR Date : 9th October, 2018 உதவி பொது மேலாளர் - மனிதவளம்

Makkal kural dated 10.10.2018

The Financial Express dated 10.10.2018

### **TPL Plant – CSR Activity**



PHCC at Sadayankuppam



**PHCC at Vichoor** 



Mobile PHCC (Dr. Mobile)

### **TPL Plant – CSR Activity**



PHCC at Periyasekkadu



Rest Room at Govt. School, Redhills

Rest Room at Govt. School, Vitchoor



Rest Room at Govt. School, Manali

Rest Room at Govt. School, Padiyanallur



District Environmental Laboratory, Manali

From

То

Dr. P. Vijayalakshmi, M.Sc., Ph.D., Deputy Chief Scientific Officer,(Adl Charge) District Environmental Laboratory, Manali Tamil Nadu Pollution Control Board, 950/1, Poonamallee High Road, Arumbakkam, Chennai-106

M/s. TPL (ECH), Manali Express Highway, Manali, Chennai – 600 068.

### Lr.No.TNPC Bd/DEL-MNL/Air Survey/F. No.81/2023-24, Dt. 27 12.2023

Sir,

Sub: Furnishing of Report of Analysis of Ambient Air Quality / Stack Monitoring / Ambient Noise Level Survey – Reg.

Ref: 1. This office Lr.Nc. TNPCB/DEL/MNL/AAQS/SM/NLS/VOC/F.No.81/2023-24 dt.07.08.2023

2. Your Lr.No. Nil dt. 29.08.2023

3. Cash Receipt No.253 dt.01.09.2023 Rs.1,05,550/-

I am herewith sending the Report of Analysis of Ambient Air Quality / Stack Monitoring / Ambient Noise Level Survey conducted in the vicinity of your industry on M/s. TPL (ECH), Manali Express Highway, Manali, Chennai - 68 on 13.10.2023 with invoice for Rs.1,05,550/- (Rupees One Lakh Five Thousand Five Hundred and Fifty only) towards the above survey / analytical charges, and the same has been adjusted vide reference (3) cited.

Kindly acknowledge the receipt of the above without fail.

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Deputy Chief Scientific Officer,(A/C) District Environmental Laboratory Tamil Nadu Pollution Control Board Manali

Encl.: As above.

Copy submitted to:

1. The Joint Chief Environmental Engineer (M), TNPC Bd, Chennai for favour of kind information please. 2. The District Environmental Engineer, TNPC Bd, Ambattur for favour of kind information please.

3. Copy to file.



District Environmental Laboratory, Manali

## AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No. 41/AAQS/2023	-24	Date: 27.12.2023
<ol> <li>Name of the Industry</li> <li>Address of the Industry</li> <li>Date of Survey</li> </ol>	:	M/s. TPL (ECH), Manali Express Highway, Manali, Chennai - 68. 13.10.2023

- 4. Duration of Survey
- 5. Category

8. Hours / 24 hours

:

6. Land use classification : Red / Orange / Green – Large / Medium / Small

Industrial / Commercial / Residential / Sensitive

Ambient	Min	Max	Relative	Min	Max
Temperature $(^{0}C)$	25	26	Humidity (%)	66	89
Weather Condition	Partially Cloudy		Rain Fall (mm)	Nil	
Predominant Wind SE – NW Direction		Mean Wind Speed (km/hr)	14	4	

	Am	bient Air	Quality	Survey Re	sults				
S1. No.	Location	Direction *	Distance (m)*	Height Form GL (m)	PM 2.5		s Concer ogram / 1 SO <sub>2</sub>	-	Cl <sub>2</sub>
1	On top of platform near CP Station II	NE	150	3.0		62	11	14	<0.1
2	On top of platform near Propylene Oxide Filling Point	E	280	3.0		58	10	16	<0.1
3	On top of platform near STP (Gate No 5)	SE	700	3.0	18	56	12	18	   <0.1 
4	On top of platform near ERC Building (Gate No 3)	SW	200	3.0		64	13	16	<0.1
5	On top of platform near Flare Area	NW	240	3.0	24	78	15	21	<().1

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

- Jelallare

Deputy Chief Scientific Officer, (A/C) District Environmental Laboratory Tamil Nadu Pollution Control Board Manali

Test Performed	Test Method
PM10	185182:(Part 23) - 2006
SO2	Modified West – Gaeke / IS 5182 : (Part 2) – 2001 RA: 2012
NO2	Jacobs – Hochheiser / IS 5182 : (Part 6) – 2006 RA:2012



District Environmental Laboratory, Manali

### AMBIENT AIR QUALITY SURVEY

Schematic Diagram Showing Location of Sampling

#### Report No. 41/AAQS/2023-24

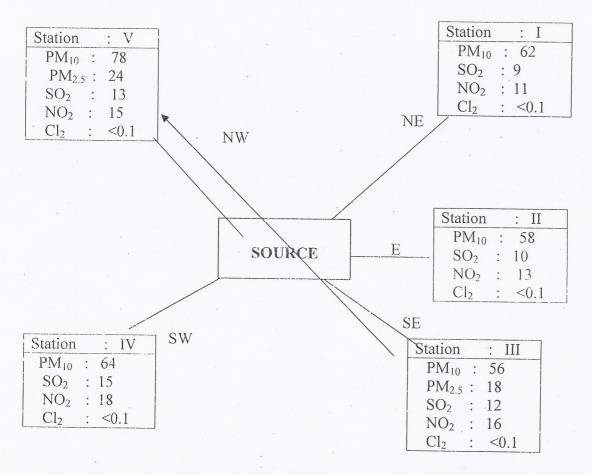
Name and Address of the Industry

#### : M/s. TPL (ECH)

Manali Express Highway, Manali, Chennai - 68.

Date of Survey

: 13.10.2023



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

Meteorological Conditions:					
Predominant Wind Direction	SE – NW				
Wind Speed (Km/hr)	14				
Weather Condition	Partially Cloudy				
Rainfall	Nil				

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Deputy Chief Scientific Officer,(A/C) District Environmental Laboratory



District Environmental Laboratory, Manali

### STACK MONITORING SURVEY -- Report of Analysis

Report No. 41/AAQS/2023	-24	Date: 27.12.2023		
1. Name of the Industry	:	M/s. TPL (ECH),		
2. Address of the Industry	:	Manali Express Highway, Manali, Chennai – 68		
3. Date of Survey	:	13.10.2023		
4. Type of Industry	:	Coal/ <b>Chemical</b> /Sugar/Paper & Pulp/ Power plant / Textile Processing		

**Stack Monitoring Survey Results** 

S1.		p	emp	ii	rate Dr	Pollutants (mg / Nm <sup>3</sup> )			
No.	Stack attached to	Fuel used	Stack .Te <sup>0</sup> K	Velocity i (m/ sec)	Discharge rate In Nm <sup>3</sup> /hr	PM	SO <sub>2</sub>	NO <sub>x</sub>	Cl <sub>2</sub>
1	Boiler 12.5 T	LNG	440	11.74	9604	4		38	
2	Vent Gas Scrubber		312	10.66	846	2			4

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

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Deputy Chief Scientific Officer,(A/C) District Environmental Laboratory Tamil Nadu Pollution Control Board Manali



District Environmental Laboratory, Manali

1. Name and Address of the Industry :

M/s. TPL (ECH)

Manali Express Highway, Manali, Chennai - 68

2. Date of Survey

13.10.2023

:

Sl. No. Particulars		1	2		
1.	Stack attached to	Boiler	Vent gas scrubber		
2.	Details of process stack	Boiler 12.5T	Vent gas scrubber		
3.	Height from G Level in (m)	47.4	30.0		
4.	Diameter in (m)	0.65	0.17		
5.	Port hole height from Ground Level or bends or ducts in (m)	20.35	13.25		
6.	Fuel Used (with % Sulphur content)	LNG			
7.	Fuel Consumption rate per hr (mention units)	0.15 KL/hr			
8.	Type of Stack and capacity	Round	Round		
9.	Production on 13.10.2023	Propylene Oxide – 46.018 MT			
10.	APC Measures provided	Automatic Air/Fuel ratio	Scrubber		
11.	APC functional status	Functional	Functional		
12.	Moisture content in %				
13.	Ambient temp in <sup>o</sup> K	303	303		
14.	Temp of flue gas in °K	440	312		
15.	Velocity of flue gas in m/sec	11.74	10.66		
16.	Volume of flue gas sampled in m <sup>3</sup>	1.001	1.003		
17.	Gaseous Discharge rate per day in Nm <sup>3</sup> /hr	9604	846		
18.	Combustion efficiency %	~~			

5/24. 6 de

Deputy Chief Scientific Officer,(A/C) District Environmental Laboratory Tamil Nadu Pollution Control Board Manali



## District Environmental Laboratory, Manali

## STACK MONITORING SURVEY - Additional details

Report No. 41/SM/2023-24		Date: 27.12.2023
1. Name of the Industry	:	M/s. TPL (ECH)
2. Address of the Industry	:	Manali Express Highway, Manali, Chennai – 68
3. Date of Survey	:	13.10.2023
4. Type of Industry	:	Coal/ <b>Chemical</b> /Sugar/Paper & Pulp/ Power plant / Textile Processing

### **Stack Monitoring Additional details**

Sl. No.	Details of stack mentioned in the Air Consent order	Details of stack available and in working condition	Details of stack for which stack Emission sampling have been done	Justification for the left out of stack Emission Sampling
1.	Boiler 12.5T	Working	Sampling Done	
2.	Vent Gas Scrubber	Working	Sampling Done	

Deputy Chief Scientific Officer,(A/C)

Deputy Chief Scientific Officer,(A/C) District Environmental Laboratory Tamil Nadu Pollution Control Board Manali



# District Environmental Laboratory, Manali

# AMBIENT/SOURCE NOISE LEVEL SURVEY - Report of Analysis

Repo	ort No. 41/ N	LS/2023-24		Date: 27.12.2023				
1.	Name of the Industry M/s. T			PL (ECH)				
2.	Address o	f the Industry	Manali	Manali Express Highway, Manali, Chennai - 68				
3.	Date of Su	irvey	13.10.2	2023				
Cate	There was an other an other and a second sec	RL		Land use Classification	Industrial			
the second second second	Type of Survey         Ambient/Source           Meteorological conditions         Image: Condition state st		ource	Time of Survey	Day			
Mete			Calm/Windy/Rainy	Windy				

			Log	ggin	ng Parameters	
Instrument Use	d C	ESVA Model SC310 Serial No		T243103		
Logging Interva	ıl	10 Minutes each po	oint	M	leasuring Range	50-110 dB(A)
Weighting	" A"	Peak			Time Weighting	FAST
		Weighting			0 0	
Sound Incidence	e	RANDOM			Time in hrs	14.00 15.00

	Кер	ort of hols	se Level M	onitoring			
SI		un on	Ge	uc	Sound	<b>Level – d</b> Min 56.8	IB (A)
No	Location	Duration (min)	Distance (M)	Direction	L <sub>eq</sub>	Min	Max
1	Near CP Station II	10	150	NE	58.4	56.8	70.1
2	Near Propylene Oxide Filling Point	10	280	E	56.0	52.0	58.0
3	Near STP (Gate No.5)	10	700	SE	61.2	56.0	65.5
4	Near ERC Building (Gate No 3)	10	200	SW	64.8	60.8	69.5
5	Near Flare Area	10	240	NW	57.9	56.7	60.4

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

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Deputy Chief Scientific Officer, (A/C) District Environmental Laboratory Tamil Nadu Pollution Control Board Manali



District Environmental Laboratory, Manali

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

1. Name of Industry	: M/s. TPL (ECH)
2. Pollution Category	: Red Large
3. Date of A.A.Q. Survey	: 13.10.2023
4. Predominant Wind Direction	: SE - NW
5. Weather condition	: Partially Cloudy
	STATUS OF POLLUTANTS LEVEL

#### I. <u>AMBIENT AIR QUALITY :-</u>

- 1. Total No. of A.A.Q. stations monitored : 5
- 2. No. of A.A.Q. stations in which Pollutants Level exceeded the Boards standards : Ni!

Maximum and Minimum values of Pollutants Level observed:

S1.		Values in m	nicrogram/m <sup>3</sup>	BOARD's STANDARD
No.	POLLUTANT	Maximum	Minimum	(As per consent order)
2.	PM <sub>10</sub> PM.2.5 <u>GASEOUS</u> POLLUTANTS:-	78 24	56 18	100 60
	(i) SO2	15	10	80
	(ii) NO2	21	14	80

### II. STACK MONITORING:-

1. Total No. of Stacks Monitored

: 2

2. No. of Stacks in which Pollutants level Exceeded the Boards standards

: Nii

metotal bur.

Deputy Chief Scientific Officer, (A/C) District Environmental Laboratory Tamil Nadu Pollution Control Board Manali



District Environmental Laboratory, Manali

#### BILL

#### Report No. 41/AAQ/SM/2023-24

Bill No.	41/2023-24
Date	27.12.2023

То

M/s. TPL (ECH), Manali Express Highway Manali, Chennai - 600 068

Ref: 1. B.PMs.No.6 Dt.31.03.2009.

2. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/VOC/F.No.81/2023-24 dt.07.08.2023

3. Your Lr.No..Nil dt. 29.08.2023

4. Cash Receipt No.253 dt.01.09.2023 Rs.1,05,550/-

\* \* \* \* \* \*

Sl. No.	Description	Rate (Rs.)	No. of Stations/ Stacks	Amount (Rs.)
1.	SAMPLING CHARGES:			
	<ul> <li>(i) Ambient Air Quality monitoring PM<sub>10</sub></li> </ul>	3500	5	17,500
	$(PM, SO_2, NO_x \text{ etc.},)$	13100	2	26,200
	PM <sub>2.5</sub>	3500	2	7,000
2.	(i) Ambient Air Samples PM <sub>10</sub> , SO <sub>2</sub> ,	4200	5	21,000
	<ul> <li>(ii) Source Emission Samples PM, SO<sub>2</sub>, NO<sub>x</sub>, Cl<sub>2</sub> (each Rs.1050/-)</li> </ul>	3150	1	3.150
	(iii) Source Emission samples (PM & Cl <sub>2</sub> )mbient Air Samples PM <sub>2.5</sub>	2100	1	2,100
	(iv) Ambient Air Samples PM <sub>2.5</sub>	1800	2	3600
3.	AMBIENT NOISE MONITORING CHARGES:			
	(i) For first 5 stations	1400	5	7,000
	Transportation Cha	arges		500
	Total	-		88,050
1.SAMPLING CHARGES: (i) Ambient Air Quality monitoring $PM_{10}$ 35005(ii) Source Emission Monitoring $(PM, SO_2, NO_x etc.,)$ 131002(iii) Ambient Air Quality monitoring $PM_{2.5}$ 1310022.ANALYTICAL CHARGES: (i) Ambient Air Samples PM_{10}, SO_2, $NO_2$ , Cl <sub>2</sub> (each Rs. 1050/-)42005(ii) Source Emission Samples PM. $SO_2$ , NO <sub>x</sub> Cl <sub>2</sub> (each Rs. 1050/-)31501(iii) Source Emission samples PM. $SO_2$ , NO <sub>x</sub> Cl <sub>2</sub> (each Rs. 1050/-)12(iii) Source Emission samples PM2.518002(iv) Ambient Air Samples PM2.5180023.AMBIENT NOISE MONITORING CHARGES: (i) For first 5 stations14005Transportation ChargesTotalReceived Vide SBI Bank DD No.476384 dated :28.08.2023 Our CR.No. 147287 dated 15.02.2022LESS: Excess amount of TVOC analytical charges will be deducted in the demand of the next survey.		1,05,550		
LE			ted in the	17,500
	Balance to be adju	sted		17,500

Deputy Chief Scientific Officer, (A/C)

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A-21, III Phase, Thiru Vi Ka Industrial Estate, Guindy, Chennai - 600 032. Ph: 42985555 / 43635555 Fax : 42985500 E-mail : labsales@hecs.in



#### **Laboratory Services Division**

(Chemical & Biological Testing) **FSSAI** Notified Laboratory ISO 9001, 14001 & 45001 Certified.

				<u>TEST RI</u>	EPORT		Pag	e:1 of 1
						ULR	: TC1231024	000016271F
						Report No.	: HECS/AP/	8585/050424
Name	e of the Client	: M/s. Tamil	Nadu Pe	troproducts Ltd.	•9	Sample ID No	: 050424266	
Addr	ess of the Client	: PO Plant, I Manali, Ch		xpress High Wa 00068.	¥,	Sampling Date	: 04/04/2024	To 05/04/2024
Group		: Atmospher	ic Pollut	ion		Received Date	: 05/04/2024	
Sample	e Name	: Ambient A	ir			Commenced D	Date: 05/04/2024	
Sampl	e Mark	: NA				Completed On	: 10/04/2024	
Sampl	e Reference	: NA				Report Date	: 11/04/2024	
Sample	e Drawn By	: M/s.Huber	t Enviro	care Systems (P)	Ltd.	Sample quant	tity : NA	
Samp	le Location	: Near Main	Gate					
	nmental Condition ing Method & Plan	: Temperatu : IS 5182 Pa		32.0   Humi art 14	dity (%) : 56.0			
S.No.	Test Para	meters	Units	Results	Test Me	ethod	NAAQ Stan	dards : 2009
Discip	line : Chemical							
1	Lead		µg/m <sup>3</sup>	BLQ (LOQ:	HECS-G/INS/S	OP/041 Issue	1 (24 hours)	0.5 (Annual)
				0.0000	NT			(* manadala)

Disc	ipline : Chemical					
1	Lead	µg/m³	BLQ (LOQ: 0.002)	HECS-G/INS/SOP/041 Issue No.:01 Issue Date:01.03.2021	1 (24 hours)	0.5 (Annual)
2	Arsenic	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)
3	Nickel	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	20 (Annual)	20 (Annual)
4	Benzene-AAQ	μg/m <sup>3</sup>	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
5	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
6	Ammonia as NH3	μg/m <sup>3</sup>	8.33	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
7	Carbon Monoxide (CO)	mg/ m <sup>3</sup>	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
8	Nitrogen dioxides as NO2	μg/m <sup>3</sup>	20.27	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
9	Ozone as O3	μg/m <sup>3</sup>	11.94	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
10	Particulate matter (Size less than 10 $\mu$ m)	μg/m <sup>3</sup>	55.98	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
11	Particulate matter (Size less than 2.5 $\mu$ m)	μg/m³	26.04	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
12	Sulphur dioxide as SO2	μg/m <sup>3</sup>	10.20	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
13	Total Suspended Particular Matter	μg/m³	81.82	IS 5182 (Part 4) 1999	-	105

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m3- Micrograms per cubic meter,

mg/m3-Milligrams per cubic meter, ng/m3-Nanograms per cubic meter, NA -- Not Applicable. Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

\*\*\*End of Report\*\*\*



M.Sivaprakasam

Lab Manager **Authorized Signatory** 

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. HECS-G/O/FMT/49

A-21, III Phase, Thiru Vi Ka Industrial Estate, Guindy, Chennai - 600 032. Ph: 42985555 / 43635555 Fax : 42985500 E-mail : labsales@hecs.in



#### **Laboratory Services Division**

(Chemical & Biological Testing) **FSSAI** Notified Laboratory ISO 9001, 14001 & 45001 Certified.

			TEST RE	TOODT			
			<u>IESI KI</u>	LIUKI		Pag	ge: 1 of 1
<b>国家学校</b> 书					ULR	: TC1231024	4000016272F
					Report No.	: HECS/AP/	8686/050424
Name of the Client	: M/s. TamilNac	du Pet	roproducts Ltd.	9	Sample ID No	:050424267	
					Sampling Date	: 04/04/2024	To 05/04/2024
Address of the Client	: PO Plant, Mar Manali, Chenr			у,			
Group	: Atmospheric P	Polluti	on		Received Date	: 05/04/2024	
Sample Name	: Ambient Air				Commenced Da	ate: 05/04/2024	
Sample Mark	:NA				Completed On	: 10/04/2024	
Sample Reference	:NA				Report Date	: 11/04/2024	
Sample Drawn By Sample Location	: M/s.Hubert Er : Near Boiler Ho		care Systems (P)	Ltd.	Sample quanti	ity : NA	
Environmental Condition Sampling Method & Plan	: Temperature ( : IS 5182 Part 5	• •		dity (%) : 56.0			
S.No. Test Paran	neters U	nits	Results	Test M	ethod	NAAQ Stan	dards : 2009
Discipline : Chemical					t.		
1 Lead	μŧ	g/m <sup>3</sup>	BLQ (LOQ: 0.002)	HECS-G/INS/S No.:01 Issue Da		1 (24 hours)	0.5 (Annual)

1	Lead	$\mu g/m^3$	BLQ (LOQ:	HECS-G/INS/SOP/ 041 Issue	1 (24 hours)	0.5 (Annual)
	the second secon		0.002)	No.:01 Issue Date:01.03.2021	. (	0.0 (/
2	Arsenic	ng/m <sup>3</sup>	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue	6 (Annual)	6 (Annual)
				No.:01 Issue Date:01.03.2021		, ,
3	Nickel	ng/m <sup>3</sup>	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue	20 (Annual)	20 (Annual)
				No.:01 Issue Date:01.03.2021		
4	Benzene-AAQ	μg/m <sup>3</sup>	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)
5	Benzo (a) pyrene-AAQ	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 12: 2004	1 (Annual)	1 (Annual)
6	Ammonia as NH3	μg/m <sup>3</sup>	5.54	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annual)
7	Carbon Monoxide (CO)	mg/ m <sup>3</sup>	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)
8	Nitrogen dioxides as NO2	μg/m <sup>3</sup>	24.36	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual)
9	Ozone as O3	μg/m <sup>3</sup>	13.90	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hours)
10	Particulate matter (Size less than 10 $\mu$ m)	μg/m <sup>3</sup>	48.17	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual)
11	Particulate matter (Size less than 2.5 $\mu$ m)	μg/m <sup>3</sup>	23.26	IS 5182 (Part 24) 2019	60 (24 hours)	40 (Annual)
12	Sulphur dioxide as SO2	μg/m <sup>3</sup>	13.79	IS 5182 (Part 2) 2001	80 (24 hours)	50 (Annual)
3	Total Suspended Particular Matter	μg/m <sup>3</sup>	71.43	IS 5182 (Part 4) 1999	-	

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m3- Micrograms per cubic meter, mg/m3-Milligrams per cubic meter, ng/m3-Nanograms per cubic meter, NA --Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

\*\*\*End of Report\*\*\*



**M.Sivaprakasam** Lab Manager **Authorized Signatory** 

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µm)

μm)

11

12

13

Particulate matter (Size less than 2.5

Sulphur dioxide as SO2



### **Laboratory Services Division**

(Chemical & Biological Testing) FSSAI Notified Laboratory ISO 9001, 14001 & 45001 Certified.

-									
		×		TEST REI	PORT	0	: 1 of 1		
					ULR	: TC12310240	00016273F		
	241.0P.				Report No.	: HECS/AP/8	787/050424		
And b	of the Client	: M/s Tamil	ladu Peti	roproducts Ltd.,	Sample ID No	:050424268			
Name	of the Chem	. IAVA Do Y COMMUNI	Cota to A Cor	. op: 000000,	Sampling Date	: 04/04/2024 T	o 05/04/2024		
Addre	ess of the Client	: PO Plant, M Manali, Cho	(anali Ex ennai - 6(	press High Way, 10068.					
Group		: Atmospheri			Received Date	: 05/04/2024			
*	e Name	: Ambient Ai			Commenced D	ate: 05/04/2024			
	e Mark	: NA			Completed On				
	Reference	: NA			Report Date	: 11/04/2024			
	e Drawn By	: M/s.Huberi	Enviro	care Systems (P)	Ltd. Sample quant	ntity : NA			
	le Location	: Near DG A							
	nmental Condition	: Temperatu	re (°C) :	32.0   Humid	ity (%) : 56.0				
	ing Method & Plan	: IS 5182 Par							
S.No.	Test Parar	neters	Units	Results	Test Method	NAAQ Stand	lards : 2009		
Discir	oline : Chemical				1				
1	Lead		μg/m <sup>3</sup>	BLQ (LOQ:	HECS-G/INS/SOP/ 041 Issue	1 (24 hours)	0.5 (Annual)		
n.				0.002)	No.:01 Issue Date:01.03.2021		(()		
2	Arsenic		ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue No.:01 Issue Date:01.03.2021	6 (Annual)	6 (Annual)		
3	Nickel		ng/m <sup>3</sup>	BLQ (LOQ: 2.0)	HECS-G/INS/SOP/ 041 Issue	20 (Annual)	20 (Annual)		
3	INICKEI		115/111	DDQ (10 Q. 210)	No.:01 Issue Date:01.03.2021				
4	Benzene-AAQ		μg/m <sup>3</sup>	BLQ (LOQ: 0.1)	IS 5182 Part 11: 2006	5 (Annual)	5 (Annual)		
5	Benzo (a) pyrene-AA	NQ	ng/m <sup>3</sup>	BLQ (LOQ: 0.1)	IS: 5182 Part 12: 2004	1 (Annual)	1 (Annual)		
6	Ammonia as NH3	-	μg/m <sup>3</sup>	7.92	IS 5182 (Part 25) 2018	400 (24 hours)	100 (Annua		
7	Carbon Monoxide (C	CO)	mg/ m <sup>3</sup>	BLQ(LOQ 0.05)	IS 5182 (Part 10) Clause 4 1999	4 (1 hours)	2 (8 hours)		
8	Nitrogen dioxides as	NO2	μg/m <sup>3</sup>	20.32	IS 5182 (Part 6) 2006	80 (24 hours)	40 (Annual		
o 9	Ozone as O3		μg/m <sup>3</sup>	10.64	IS 5182 (Part 9) 1974	180 (1 hours)	100 (8 hour		
-		ing loss than 10	μg/m <sup>3</sup>	53.92	IS 5182 (Part 23) 2006	100 (24 hours)	60 (Annual		
10	Particulate matter (S	ize less than 10	µg/ms	33.74	10 5 102 (1 11 0 00 ) 2000				

 3
 Total Suspended Particular Matter
 μg/m³
 74.89
 IS 5182 (Part 4) 1999

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

 $\mu g/m^3$ 

 $\mu g/m^3$ 

20.97

8.93

\*\*\*End of Report\*\*\*



IS 5182 (Part 24) 2019

IS 5182 (Part 2) 2001

40 (Annual)

50 (Annual)

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60 (24 hours)

80 (24 hours)

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#### **Laboratory Services Division**

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				TEST RE		ULR	Page : TC12310240	: 1 of 1 00016274F
	N 10 0 1					Report No.	: HECS/AP/88	
				Annal T Ad		Sample ID No	: 050424269	
Name	e of the Client	: M/s. Tamil	ladu Peti	roproducts Ltd.,		Sampling Date	: 04/04/2024 T	a 05/04/2024
. 11	Ciliant	. DO Bloot N	lonali Fa	press High Way		Sampring Date	, 04/04/2021 2	0 0010 11202
Addr	ess of the Client	Manali, Cho			9			
C		: Atmospheri			: 05/04/2024			
Group		: Ambient Ai				Commenced Da	ate: 05/04/2024	
-	e Name	: NA				Completed On	: 10/04/2024	
	e Mark e Reference	: NA				Report Date	: 11/04/2024	
	e Drawn By		Enviro	care Systems (P)	Ltd.	Sample quanti	ity : NA	
	le Location	: Near Gate 5						
	onmental Condition	: Temperatu	$re(^{\circ}C)$ :	32.0   Humid	lity (%) : 56.0			
	ling Method & Plan	: IS 5182 Par	rt 5 & Pa					
	1		Units	Results	Test M	ethod	NAAQ Stand	lards : 2009
S.No	9	neters	O MARCO	ALUGAN		L		
	pline : Chemical		μg/m <sup>3</sup>	BLQ (LOQ:	HECS-G/INS/S	OP/041 Issue	1 (24 hours)	0.5 (Annua
1	Lead		μ g/	0.002)	No.:01 Issue Da			
2	Arsenic		ng/m <sup>3</sup>	BLQ (LOQ: 2.0)	HECS-G/INS/S		6 (Annual)	6 (Annual
					No.:01 Issue Da HECS-G/INS/S		20 (Annual)	20 (Annua
3	Nickel		ng/m³	BLQ (LOQ: 2.0)	No.:01 Issue Da		20 (Annual)	20 (Aunua
4	Benzene-AAQ		μg/m <sup>3</sup>	BLQ (LOQ: 0.1)	IS 5182 Part		5 (Annual)	5 (Annual
	Benzo (a) pyrene-AA	10	ng/m <sup>3</sup>	BLO (LOO: 0.1)	IS : 5182 Pa	urt 12: 2004	1 (Annual)	1 (Annual
5	.,,,,	<sup>v</sup> V	-	6.19	IS 5182 (Pa		400 (24 hours)	100 (Annu
6	Ammonia as NH3		μg/m <sup>3</sup>				4 (1 hours)	2 (8 hours
7	Carbon Monoxide (	CO)	mg/ m <sup>3</sup>	BLQ(LOQ 0.05)	IS 5182 (Part 19		4 (1 liouis)	2 (0 nouis
8	Nitrogen dioxides as	NO2	μg/m <sup>3</sup>	18.94	IS 5182 (P		80 (24 hours)	40 (Annua
	0	, 1102		12.96	IS 5182 (Part 9) 1974		180 (1 hours)	100 (8 hou
9	Ozone as O3		μg/m <sup>3</sup>				100 (24 hours)	60 (Annua
10	Particulate matter (S µm)	ize less than 10	μg/m <sup>3</sup>	50.57	15 5182 (Pa	art 23) 2006	100 (24 nouis)	
11	Particulate matter (S µm)	Size less than 2.5	μg/m <sup>3</sup>	19.29	IS 5182 (Pa	art 24) 2019	60 (24 hours)	40 (Annu:
12	Sulphur dioxide as \$	502	μg/m <sup>3</sup>	12.40	IS 5182 (P	art 2) 2001	80 (24 hours)	50 (Annu
								1

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m3- Micrograms per cubic meter,

69.86

mg/m3-Milligrams per cubic meter, ng/m3-Nanograms per cubic meter, NA -- Not Applicable. Remarks: The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

 $\mu g/m^3$ 

Total Suspended Particular Matter

13

\*\*\*End of Report\*\*\*



IS 5182 (Part 4) 1999

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8

0

10

11

12

13

Nitrogen dioxides as NO2

Sulphur dioxide as SO2

Particulate matter (Size less than 10

Particulate matter (Size less than 2.5

**Total Suspended Particular Matter** 

Ozone as O3

µm)

μm)



#### **Laboratory Services Division**

(Chemical & Biological Testing) **FSSAI** Notified Laboratory ISO 9001, 14001 & 45001 Certified.

				<u>test re</u>	U	ILR eport No.	Pag : TC1231024 : HECS/AP/8	o o o a o a o a o a o a	
Nam	e of the Client	: M/s. Tam	ilNadu Pe	troproducts Ltd.	, S	ample ID No	:050424270		
Addr	ess of the Client	: PO Plant, Manali, C		xpress High Way 500068.		ampling Date	: 04/04/2024	To 05/04/2024	
Group		: Atmosphe	eric Pollut	ion	R	eceived Date	: 05/04/2024		
Sample	e Name	: Ambient	Air		C	ommenced D	ate: 05/04/2024		
Sample	e Mark	: NA			C	ompleted On	: 10/04/2024		
Sample	e Reference	: NA			R	eport Date	: 11/04/2024		
Sample Drawn By : M/s.Hubert Enviro care Syste				care Systems (P)	ns (P) Ltd. Sample quantity : NA				
Samp	le Location	: Near ETP		<b>A</b> 0.00					
	nmental Condition	: Temperat : IS 5182 P			lity (%) : 56.0	6 U U			
S.No. Test Parameters		Units	Results	Test Meth	nod	NAAQ Standards : 2009			
Discip	oline : Chemical								
1	Lead		μg/m <sup>3</sup>	BLQ (LOQ: 0.002)	HECS-G/INS/SOF No.:01 Issue Date:		1 (24 hours)	0.5 (Annual)	
2	Arsenic	5 I.	ng/m³	BLQ (LOQ: 2.0)	HECS-G/INS/SOF No.:01 Issue Date:		6 (Annual)	6 (Annual)	
3	Nickel		ng/m <sup>3</sup>	BLQ (LOQ: 2.0)	HECS-G/INS/SOI No.:01 Issue Date:		20 (Annual)	20 (Annual)	
4	Benzene-AAQ		μg/m <sup>3</sup>	BLQ (LOQ: 0.1)	IS 5182 Part 11	: 2006	5 (Annual)	5 (Annual)	
5	Eenzo (a) pyrene-AA	Q	ng/m³	BLQ (LOQ: 0.1)	IS : 5182 Part 1	12: 2004	1 (Annual)	1 (Annual)	
6	Ammonia as NH3		μg/m <sup>3</sup>	5.50	IS 5182 (Part 2	25) 2018	400 (24 hours)	100 (Annual)	
7	Carbon Monoxide (C	:0)	mg/ m <sup>3</sup>	BLQ(LOQ 0.05)	IS 5182 (Part 10)	) Clause 4	4 (1 hours)	2 (8 hours)	

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m3- Micrograms per cubic meter, mg/m3-Milligrams per cubic meter, ng/m3-Nanograms per cubic meter, NA --Not Applicable.

18.43

10.36

49.96

22.07

10.20

72.03

Remarks: The Tested Parameters as above are within the Limits of NAAO Standards 2009.

 $\mu g/m^3$ 

 $\mu g/m^3$ 

 $\mu g/m^3$ 

 $\mu g/m^3$ 

 $\mu g/m^3$ 

 $\mu g/m^3$ 

\*\*\*End of Report\*\*\*

1999

IS 5182 (Part 6) 2006

IS 5182 (Part 9) 1974

IS 5182 (Part 23) 2006

IS 5182 (Part 24) 2019

IS 5182 (Part 2) 2001

IS 5182 (Part 4) 1999



M.Sivaprakasam Lab Manager **Authorized Signatory** 

80 (24 hours)

180 (1 hours)

100 (24 hours)

60 (24 hours)

80 (24 hours)

40 (Annual)

100 (8 hours)

60 (Annual)

40 (Annual)

50 (Annual)

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### **Laboratory Services Division**

(Chemical & Biological Testing) FSSAI Notified Laboratory ISO 9001, 14001 & 45001 Certified.

	TERMENT DEDATO			
	<u>TEST REPORT</u>	Page : 1 of 1		
Name of the Client	: M/s. TamilNadu Petroproducts Ltd.,	Report No. <b>HECS/AP/113/050424</b> Sample ID No         :050424310		
Address of the Client	: PO Plant, Manali Express High Way, Manali, Chennai - 600068.	Sampling Date : 05/04/2024		
Group Sample Name	<ul> <li>Atmospheric Pollution</li> <li>Stack Emission</li> </ul>	Received Date : 05/04/2024 Commenced Date: 05/04/2024		
Sample Mark Sample Reference	: Chlorine Scrubber : NA	Completed On         : 10/05/2024           Report Date         : 10/05/2024		
Sample Drawn By Sample Location	: M/s.Hubert Enviro care Systems (P) Ltd. : NA	Sample quantity : NA		
Environmental Condition Sampling Method & Plan	: Temperature (°C) : 32.0   Humidity (%) : 56.0 : ISO 16000			
S No Dono	Ilmita Desults		-	

S.No.	Parameters	Units	Results	Test Method
1	Chlorine	mg/Nm <sup>3</sup>	1.8	HECS/AIR/STACK/SOP026

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

\*\*\*End of Report\*\*\*



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#### TEST REPORT

Report No.

Page: 1 of 1

-

: HECS/AP/121/050424/N

Name of the Client	: M/s. TamilNadu Petroproducts Ltd.,	Sample ID No : 050424323	
		Sampling Date : 05/04/2024	
Address of the Client	: PO Plant, Manali Express High Way,		
	Manali, Chennai - 600068.		
Group	: Atmospheric Pollution	Received Date : 05/04/2024	
Sample Name	<sup>2</sup> Stack Emission (VOC)	Commenced Date: 05/04/2024	
Sample Mark	: Chlorine Scrubber	Completed On : 10/04/2024	
Sample Reference	: NA	Report Date : 11/04/2024	
Sample Drawn By	: M/s.Hubert Enviro care Systems (P) Ltd.	Sample quantity : NA	
Sample Location	: NA		
<b>Environmental Condition</b>	: Temperature (°C) : 32.0   Humidity (%) : 56.0		
Sampling Method & Plan	: ISO 16000		
C NI			

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

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification.

\*\*\*End of Report\*\*\*



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 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report.
 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report.
 5. The test results relate only to the test items.

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8

Fluegas Temperature



#### **Laboratory Services Division**

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				*					
			T	EST REPOR	P	age: 1 of 2			
						240000211081			
Nan	ne of the Client	: M/s. TamilNad	u Dotronnod	by I store	Report No. HECS/Al Sample ID No :05042431	P/114/050424			
Ivan	ie of the cheft	· wis. rammad	iu r en oprou	ucis Liu.,	Sampling Date : 05/04/202				
Add	ress of the Client	: PO Plant, Mar Manali, Chenr		ligh Way,					
Group	р	: Atmospheric I	ollution		Received Date : 05/04/202	:4			
Samp	le Name	Stack Emission	n		Commenced Date: 05/04/202	4			
	le Mark	: Emergency DO	G Set		Completed On : 11/05/202	4			
Samp	le Reference	: NA							
	le Drawn By	: M/s.Hubert Er	nviro care Sy	stems (P) Ltd.	Sample quantity : NA				
-	ole Location	: NA							
	onmental Condition ling Method & Plan	: Temperature ( : ISO 16000	°C): 32.0	Humidity (%)	: 56.0				
S.No.	Test Par	ameters	Units	Results	Test Method	CPCB Standards			
Discip	oline : Chemical			-		L			
	CarbonMonoxide (Co	0)	mg/Nm <sup>3</sup>	38.35	IS 13270 Clause 4 1992	150			
	Flue Gas Velocity		m/sec	10.7	IS 11255 (Part 3) 2008	-			
<b>i</b>	Particulate matter (PM	M)	mg/Nm <sup>3</sup>	36.40	IS 11255 Part 1 1985	75			
<ul> <li>4 Sulphur dioxide (SO2)</li> <li>5 Nitrogen dioxide(NO2)</li> </ul>		2)	mg/Nm <sup>3</sup>	13.24	IS 11255 (Part 2) 1985				
		mg/Nm <sup>3</sup>	241.74	ASTM Method D6522 (by Flue gas Analyzer) 2000	710*				
)	Carbon dioxide (CO2	2)	%	6.4	IS 13270 Clause 4 1992	40			
,	Flue Gas Discharge (	Flow Rate)	Nm³/hr	5132.0	IS 11255 (Part 3) 2008				
No. of the Owner of the Owner of the	and store with the second se								

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, Nm3/hr - Normal cubic meter per hour,

CNTE- Concentration not to Exceed, mg/Nm3- Milligrams per Normal cubic meter, °C- Degree Celsius,

°C

m/s- Meter per second, %V/V - Percentage, NA - Not Applicable,\*ppm- Parts Per Million.

Remarks: The Tested Parameters as above are within the Limits of CPCB Stack Emission Standards.

\*\*\*End of Report\*\*\*

117.0



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IS 11255 (Part 3) 2008

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#### **TEST REPORT**

Report No.

Page: 1 of 1

: HECS/AP/114/050424/N

				Report No.	· 11ECS/AF/114/030424/14
Name of the Client	: M/s. TamilNadu Petro	products Ltd.,		Sample ID No	: 050424311
				Sampling Date	: 05/04/2024
Address of the Client	: PO Plant, Manali Exp	ress High Way	9		
	Manali, Chennai - 600	068.			
Group	: Atmospheric Pollution	n		Received Date	: 05/04/2024
Sample Name	Stack Emission			Commenced Date	e: 05/04/2024
Sample Mark	: Emergency DG Set			Completed On	: 11/05/2024
Sample Reference	: NA			Report Date	: 11/05/2024
Sample Drawn By	: M/s.Hubert Enviro ca	re Systems (P)	Ltd.	Sample quantity	· NA
Sample Location	: NA	•			
<b>Environmental Condition</b>	: Temperature (°C): 3	2.0   Humid	lity (%) : 56.0		
Sampling Method & Plan	: ISO 16000	· · · · · · · · · · · · · · · · · · ·			
S.No. Test Para	ameters	Units	Results		Test Method

5.NO.	1 est Parameters		Units	Results	Test Method
Discip	line : Chemical				
- 1	Non Methane Hydrocarons	* . 	mg/Nm <sup>3</sup>	BLQ (LOQ:0.2)	HECS-G/INS/SOP/056 Issue No.:01 Issue Date:01.03: 2021
2	Hydrocarbons		μg/Nm <sup>3</sup>	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/019 Issue No.:01 Issue Date:01.03.2021
3	Olefins		μg/Nm <sup>3</sup>	BLQ (LOQ: 0.1)	Inhouse Method

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, °C- Degree Celsius.

\*\*\*End of Report\*\*\*



N

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### **Laboratory Services Division**

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			TEST	<u>REPORT</u>	ULR Report No. Sample	: TC123102	ge : 1 of 1 4000016276F /090/050424
Name	of the Client	: M/s. TamilNadu Po	troproducte	K & J	ID No	: 050424271	
Ivanic	of the cheft	• 141/5. 1 anni 14 auu 1 6	ciopioducis		Sampling Date	: 05/04/2024	50X P N 11
Addres	ss of the Client	: PO Plant, Manali F Manali, Chennai -	. 0	Way,	Sumpring Date	. 00/04/2020	et <sup>en e</sup> nde
Group		: Atmospheric Pollu	tion		Received Date	: 05/04/2024	8
Sample	Name	Stack Emission			Commenced Dat	te: 05/04/2024	ł
Sample Mark : Boiler Stack				Completed On	: 10/04/2024	1	
Sample	Reference	:NA			Report Date	: 11/04/2024	1
Sample Drawn By : M/s.Hubert Enviro		care System	us (P) Ltd.	Sample quantity	y NA		
	Location	: NA					
	mental Condition g Method & Plan	: Temperature (°C) : : ISO 16000	: 32.0   H	(umidity (%) : 56.	0.		
a ig er			Stack	Details		V	
S.No.	Particulars		Units	Stack Specificatio	m		
1	Stack Height		Meter	47.4			
2	Stack Diameter		Meter	0.65			
Discipl	ine : Chemical						
S.No.	Test	Parameters	Units	Results	Test Me	ethod	CPCB Standard
1	CarbonMonoxide (	(CO)	mg/Nm <sup>3</sup>	7.93	IS 13270 Clau	ise 4 1992	Max 150
2	Flue Gas Velocity		m/sec	12.9	IS 11255 (Par	t 3) 2008	
3	Particulate matter (	PM)	mg/Nm <sup>3</sup>	9.20	IS 11255 Par	t 1 1985	Max 10
		the second se	Lange and the second se				

4	Sulphur dioxide (SO2)	mg/Nm <sup>3</sup>	8.62	IS 11255 (Part 2) 1985	Max 50
5	Nitrogen dioxide(NO2)	mg/Nm³	65.26	ASTM Method D6522 (by Flue gas Analyzer) 2000	Max 350
6	Carbon dioxide (CO2)	%	9.4	IS 13270 Clause 4 1992	en ,
7	Flue Gas Discharge (Flow Rate)	Nm³/hr	9281.0	IS 11255 (Part 3) 2008	65
8	Fluegas Temperature	°C	176.0	IS 11255 (Part 3) 2008	

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, Nm3/hr - Normal cubic meter per hour, CNTE-Concentration not to Exceed, mg/Nm3- Milligrams per Normal cubic meter, °C- Degree Celsius, %V/V - Percentage, NA - Not Applicable. Remarks: The Tested Parameters as above are within the Limits of CPCB Stack Emission Standards.

\*\*\*End of Report\*\*\*



M.Sivaprakasam Lab Manager **Authorized Signatory** 

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### **Laboratory Services Division**

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### **TEST REPORT**

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	1	1 of

				Report No.	HECS/AP/090/050424/N	
Name of the Client	: M/s. TamilNadu Petr	roproducts Ltd.	9	Sample ID No	: 050424271	
				Sampling Date	: 05/04/2024	
Address of the Client	: PO Plant, Manali Ex	press High Wa	У,			
	Manali, Chennai - 60	00068.				
Group	: Atmospheric Polluti	on		<b>Received Date</b>	: 05/04/2024	
Sample Name	Stack Emission			Commenced Dat	e: 05/04/2024	
Sample Mark	: Boiler Stack			Completed On	: 10/04/2024	
Sample Reference	: NA			Report Date	: 11/04/2024	
Sample Drawn By	: M/s.Hubert Enviro	care Systems (P	) Ltd.	Sample quanti	ty : NA	
Sample Location	: NA					
Environmental Condition	: Tempcrature (°C) :	32.0   Humi	dity (%) : 56.(	)		
Sampling Method & Plan	: ISO 16000					
S.No. Test	Parameters	Units	Results		Test Method	

	A CSU A MAINCICUS	Units	Results	i est ivietnod			
Discipl	Discipline : Chemical						
1	Hydrocarbons	μg/Nm3	BLQ (LOQ: 0.1)	HECS-G/INS/SOP/019 Issue			
	λ			No.:01 Issue Date:01.03.2021			
2	Non Methane Hydrocarons	mg/Nm <sup>3</sup>	BLQ (LOQ:0.2)	HECS-G/INS/SOP/056 Issue			
				No.:01 Issue Date:01.03: 2021			
3	Olefins	μg/Nm3	BLQ (LOQ: 0.1)	Inhouse Method			

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, mg/Nm3- Milligrams per Normal cubic meter.

\*\*\*End of Report\*\*\*



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### **TEST REPORT**

Page: 1 of 1

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Name of the ClientM/s. TamilNadu Petroproducts Ltd.,Report No.HECS/AP/120/050424/NAddress of the Client: M/s. TamilNadu Petroproducts Ltd.,Sample ID No: 050424322Address of the Client: PO Plant, Manali Express High Way, Manali, Chennai - 600068.: 05/04/2024Group: Atmospheric PollutionReceived Date: 05/04/2024Sample Name: Stack Emission (VOC)Commenced Date: 05/04/2024Sample Mark: Boiler StackCompleted On: 10/04/2024Sample Reference: NAReport Date: 11/04/2024Sample Location: NASample quantity : NAEnvironmental Condition: Temperature (°C) :: 32.0   Humidity (%) :: 56.U: U					
Address of the ClientSampling Date: 05/04/2024Address of the Client: PO Plant, Manali Express High Way, Manali, Chennai - 600068.Received Date: 05/04/2024Group: Atmospheric PollutionReceived Date: 05/04/2024Sample Name: Stack Emission (VOC)Commenced Date:05/04/2024Sample Mark: Boiler StackCompleted On: 10/04/2024Sample Reference: NAReport Date: 11/04/2024Sample Drawn By: M/s.Hubert Enviro care Systems (P) Ltd.Sample quantity : NASample Location: NA: Temperature (°C): 32.0   Humidity (%): 56.0			Report No.	: HECS/AP/120/050424/	V
Address of the Client: PO Plant, Manali Express High Way, Manali, Chennai - 600068.Group: Atmospheric PollutionReceived Date : 05/04/2024Sample Name: Stack Emission (VOC)Commenced Date: 05/04/2024Sample Mark: Boiler StackCompleted On : 10/04/2024Sample Reference: NAReport Date : 11/04/2024Sample Drawn By: M/s.Hubert Enviro care Systems (P) Ltd.Sample quantity : NASample Location: NA: Temperature (°C): 32.0   Humidity (%): 56.0	Name of the Client	: M/s. TamilNadu Petroproducts Ltd.,	Sample ID No	: 050424322	
Manali, Chennai - 600068.         Group       Atmospheric Pollution       Received Date       : 05/04/2024         Sample Name       : Stack Emission (VOC)       Commenced Date:       : 05/04/2024         Sample Mark       : Boiler Stack       Completed On       : 10/04/2024         Sample Reference       : NA       Report Date       : 11/04/2024         Sample Drawn By       : M/s.Hubert Enviro care Systems (P) Ltd.       Sample quantity : NA         Sample Location       : NA       Environmental Condition       : Temperature (°C): 32.0   Humidity (%): 56.0			Sampling Date	: 05/04/2024	
Group: Atmospheric PollutionReceived Date <th: 04="" 05="" 2024<="" th="">Sample Name: Stack Emission (VOC)Commenced Date:05/04/2024Sample Mark: Boiler StackCompleted On: 10/04/2024Sample Reference: NAReport Date: 11/04/2024Sample Drawn By: M/s.Hubert Enviro care Systems (P) Ltd.Sample quantity : NASample Location: NA: NAEnvironmental Condition: Temperature (°C): 32.0   Humidity (%): 56.0</th:>	Address of the Client	, , , , , , , , , , , , , , , , , , , ,			
Sample NameStack Emission (VOC)Commenced Date: 05/04/2024Sample Mark: Boiler StackCompleted OnSample Reference: NAReport DateSample Drawn By: M/s.Hubert Enviro care Systems (P) Ltd.Sample quantity : NASample Location: NASample quantity : NAEnvironmental Condition: Temperature (°C): 32.0   Humidity (%): 56.0		Manali, Chennai - 600068.			
Sample Mark: Boiler StackCompleted On: 10/04/2024Sample Reference: NAReport Date: 11/04/2024Sample Drawn By: M/s.Hubert Enviro care Systems (P) Ltd.Sample quantity : NASample Location: NA: NAEnvironmental Condition: Temperature (°C): 32.0   Humidity (%): 56.0	Group	Atmospheric Pollution	Received Date	: 05/04/2024	
Sample Reference       : NA       Report Date       : 11/04/2024         Sample Drawn By       : M/s.Hubert Enviro care Systems (P) Ltd.       Sample quantity : NA         Sample Location       : NA       Sample quantity : NA         Environmental Condition       : Temperature (°C): 32.0   Humidity (%): 56.0	Sample Name		Commenced Dat	e: 05/04/2024	
Sample Drawn By       : M/s.Hubert Enviro care Systems (P) Ltd.       Sample quantity : NA         Sample Location       : NA         Environmental Condition       : Temperature (°C) : 32.0   Humidity (%) : 56.0	Sample Mark	: Boiler Stack	Completed On	: 10/04/2024	
Sample Location       : NA         Environmental Condition       : Temperature (°C): 32.0   Humidity (%): 56.0	Sample Reference	: NA	Report Date	: 11/04/2024	
Environmental Condition : Temperature (°C): 32.0   Humidity (%): 56.0	Sample Drawn By	: M/s.Hubert Enviro care Systems (P) Ltd.	Sample quantit	ty · NA	
Temperature ( ), of the Andrewsky ( ), of the	Sample Location	: NA			
Sampling Method & Plan : ISO 16000	Environmental Condition		0		
	Sampling Method & Plan	: ISO 16000	a		

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

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification.

\*\*\*End of Report\*\*\*



SY

M.Sivaprakasam Lab Manager Authorized Signatory

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### **Laboratory Services Division**

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			<u>TEST RE</u>	UL Rep	ort No. : HECSL/WT/114/050424
Nan	e of the Client	: M/s. TamilNadu	Petroproducts Ltd.,		nple ID No : 050424312 npling Date : 05/04/2024
Add	ress of the Client	: PO Plant, Mana Manali, Chenna	li Express High Way i - 600068.		,
Group	)	: Water		Rec	eived Date : 05/04/2024
Samp	le Name	: Bore Well Wate	r	Cor	nmenced Date: 05/04/2024
	le Mark	: Borewell Water	1	Cor	npleted On : 12/04/2024
	le Reference	:NA			ort Date : 11/05/2024
	le Drawn By		iro care Systems (P)	Ltd. Sar	nple quantity : 2 Litres
	ble Location	· NA			
	onmental Condition ling Method & Plan	: Temperature (°C : IS 17614(Part-1	C): 32.0   Humid ):2021	lity (%) : 56.0	
S.No	. Test P	arameters	Units	Results	Test Method
Disci	pline : Chemical				-
1	Biological Oxygen 27°C For 3 days	Demand (BOD)@	mg/l	3.0	IS 3025 Part 44: 1993
2	Calcium as Ca	i i	mg/l	120.24	IS 3025 Part 40: 1991(EDTA Titrimetr Method)
3	Chemical Oxygen I	Demand (COD)	mg/l	24.0	IS 3025 Part 58: 2006
4	Chloride as Cl		mg/l	801.7	IS 3025 Part 32: 1988 (Argentometric Method)
5	Residual Free Chlo	rine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part 26): 2021 (DPD method b,c)
6	Colour		Hazen units	2.0	IS 3025 (Part4): 2021
7	Dissolved oxygen		mg/l	6.5	IS 3025 (Part 38): 1989 ( Titrimetric Method)
8	Electrical Conducti	vity at 25°C	μS/cm	3520.0	IS 3025 Part-14: 2013
9	Fluoride as F		mg/l	0.49	APHA 23rd edition (Method 4500- F-B,D): 2017
10	Iron as Fe		mg/l	2.17	IS 3025 (Part 53): 2003
11	Magnesium as Mg		mg/l	58.32	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)
12	Nitrate as NO3		mg/l	14.7	APHA 23rd edition (Method 4500 NO3B): 2017
					NO3D). 2017



Cons. D.Anusuya

Deputy Quality Manager Authorized Signatory

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### **Laboratory Services Division**

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783					
	S-7023		TEST RE	PORT	Page : 2 of 3
-	40.43			ULR	: TC1231024000021109F
	并与中心			Report N	
Name	of the Client	: M/s TamilNadı	Petroproducts Ltd.,	Sample I	DNo :050424312
Ivanic	of the cheft	• 141/3. A GAMMI 44446	i ci opi outeus inui,	Sampling	
Addre	ess of the Client	: PO Plant, Mana Manali, Chenna	lli Express High Way i - 600068.		
Group		: Water		Received	Date : 05/04/2024
Sample	Name	: Bore Well Wate	x	Commen	ced Date: 05/04/2024
Sample		: Borewell Water	1	Complete	
Sample	Reference	: NA		Report D	
	e Drawn By		viro care Systems (P)	Ltd. Sample	quantity 2 Litres
	e Location	: NA			
	nmental Condition		C): 32.0   Humic	lity (%) : 56.0	
Sampli S.No.	ng Method & Plan	: IS 17614(Part-1 rameters	Units	Results	Test Method
14	pH at 25°C		OMES	7.74	IS 3025(Part 11) : 2022 ( Electrometri
14	pH at 25 C		5 <b>6</b> 5 7	1.14	method)
15	Salinity		ppt	1.45	APHA 23rd edition (Method 2520 B)
			**		
					2017
16	Sodium as Na		mg/l	410.0	
16	Sodium as Na		mg/l	410.0	
16 17	Sodium as Na Sulphate as SO4		mg/l	410.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method)
					IS 3025 Part 45: 1993 (Fleme emission Photometric Method)
					IS 3025 Part 45: 1993 (Fleme emissio Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidit
17	Sulphate as SO4	LaCO3	mg/l	140.71	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method)
17 18	Sulphate as SO4 Temperature(°C)		mg/l	140.71 26.9	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidin Method)(Turbidity Method) IS 3025 (Part 9): 1984
17 18 19	Sulphate as SO4 Temperature(°C) Total alkalinity as C	ds	mg/l °C mg/l	140.71 26.9 380.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method) IS 3025 (Part 9): 1984 IS 3025 (Part 23): 1986
17 18 19 20	Sulphate as SO4 Temperature(°C) Total alkalinity as C Total dissolved solid	ds	mg/l °C mg/l mg/l	140.71 26.9 380.0 1812.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidity Method)(Turbidity Method) IS 3025 (Part 9): 1984 IS 3025 (Part 23): 1986 IS 3025 (Part 16): 1984
17 18 19 20 21	Sulphate as SO4 Temperature(°C) Total alkalinity as C Total dissolved solid Total hardness as C	ds	mg/l °C mg/l mg/l mg/l	140.71 26.9 380.0 1812.0 540.0	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbiditi Method)(Turbidity Method) IS 3025 (Part 9): 1984 IS 3025 (Part 23): 1986 IS 3025 (Part 16): 1984 IS 3025 (Part 21): 2009
17 18 19 20 21 22	Sulphate as SO4 Temperature(°C) Total alkalinity as C Total dissolved solid Total hardness as C Turbidity, NTU	ds	mg/l °C mg/l mg/l mg/l NTU	140.71 26.9 380.0 1812.0 540.0 21.4	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidin Method)(Turbidity Method) IS 3025 (Part 9): 1984 IS 3025 (Part 23): 1986 IS 3025 (Part 16): 1984 IS 3025 (Part 21): 2009 IS 3025 (Part 10): 1984
17 18 19 20 21 22 23	Sulphate as SO4 Temperature(°C) Total alkalinity as C Total dissolved solid Total hardness as C Turbidity, NTU Aluminium	ds	mg/l °C mg/l mg/l mg/l NTU mg/l	140.71 26.9 380.0 1812.0 540.0 21.4 BLQ (LOQ: 0.01)	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidin Method)(Turbidity Method) IS 3025 (Part 9): 1984 IS 3025 (Part 23): 1986 IS 3025 (Part 16): 1984 IS 3025 (Part 16): 1984 USEPA 200.8 : 1994
17 18 19 20 21 22 23 24	Sulphate as SO4 Temperature(°C) Total alkalinity as C Total dissolved solid Total hardness as C Turbidity, NTU Aluminium Arsenic	ds	mg/l °C mg/l mg/l mg/l NTU mg/l mg/l mg/l mg/l mg/l	140.71 26.9 380.0 1812.0 540.0 21.4 BLQ (LOQ: 0.01) BLQ (LOQ: 0.005)	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidin Method)(Turbidity Method) IS 3025 (Part 9): 1984 IS 3025 (Part 23): 1986 IS 3025 (Part 16): 1984 IS 3025 (Part 16): 1984 IS 3025 (Part 10): 1984 USEPA 200.8 : 1994 USEPA 200.8 : 1994
17 18 19 20 21 22 23 24 25	Sulphate as SO4 Temperature(°C) Total alkalinity as C Total dissolved solid Total hardness as C Turbidity, NTU Aluminium Arsenic Cadmium	ds	mg/l °C mg/l mg/l mg/l NTU mg/l mg/l mg/l mg/l mg/l mg/l mg/l	140.71 26.9 380.0 1812.0 540.0 21.4 BLQ (LOQ: 0.01) BLQ (LOQ: 0.005) BLQ (LOQ: 0.001)	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidin Method)(Turbidity Method) IS 3025 (Part 9): 1984 IS 3025 (Part 23): 1986 IS 3025 (Part 16): 1984 IS 3025 (Part 16): 1984 IS 3025 (Part 10): 1984 USEPA 200.8 : 1994 USEPA 200.8 : 1994
<ol> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> </ol>	Sulphate as SO4 Temperature(°C) Total alkalinity as C Total dissolved solid Total hardness as C Turbidity, NTU Aluminium Arsenic Cadmium Chromium	ds	mg/l °C mg/l mg/l mg/l NTU mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	140.71           26.9           380.0           1812.0           540.0           21.4           BLQ (LOQ: 0.01)           BLQ (LOQ: 0.005)           BLQ (LOQ: 0.001)           BLQ (LOQ: 0.01)	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidin Method)(Turbidity Method) IS 3025 (Part 9): 1984 IS 3025 (Part 9): 1984 IS 3025 (Part 16): 1984 IS 3025 (Part 16): 1984 IS 3025 (Part 10): 1984 USEPA 200.8 : 1994 USEPA 200.8 : 1994 USEPA 200.8 : 1994
17 18 19 20 21 22 23 24 25 26 27	Sulphate as SO4 Temperature(°C) Total alkalinity as C Total dissolved solid Total hardness as C Turbidity, NTU Aluminium Arsenic Cadmium Chromium Copper	ds	mg/l °C mg/l mg/l mg/l NTU mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	140.71         26.9         380.0         1812.0         540.0         21.4         BLQ (LOQ: 0.01)         BLQ (LOQ: 0.005)         BLQ (LOQ: 0.001)         BLQ (LOQ: 0.01)         BLQ (LOQ: 0.01)         BLQ (LOQ: 0.01)	IS 3025 Part 45: 1993 (Fleme emission Photometric Method) IS 3025 Part 24 Sec 1: 2022(Turbidit Method)(Turbidity Method) IS 3025 (Part 9): 1984 IS 3025 (Part 9): 1984 IS 3025 (Part 16): 1984 IS 3025 (Part 16): 1984 IS 3025 (Part 10): 1984 USEPA 200.8 : 1994 USEPA 200.8 : 1994 USEPA 200.8 : 1994 USEPA 200.8 : 1994



10 **D.Anusuya Deputy Quality Manager** 

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### **Laboratory Services Division**

(Chemical & Biological Testing) FSSAI Notified Laboratory ISO 9001, 14001 & 45001 Certified.

			<u>TEST RE</u>	PORT ULR	· TC123	Page : 3 of 3 1024000021109F
	间进步			Report		L/WT/114/050424
	Name of the Clien	: M/s. TamilNad	u Petroproducts Ltd.,	Sample	e ID No : 050424	1312
	Address of the Clie	ent : PO Plant, Man Manali, Chenn	ali Express High Way ai - 600068.		ng Date : 05/04/2	2024
	Group	: Water		Receiv	ed Date : 05/04/2	2024
	Sample Name	: Bore Well Wat	er	Comm	enced Date: 05/04/2	2024
	Sample Mark Sample Reference	: Borewell Wate : NA	r 1	Compl Report	eted On : 12/04/2 Date : 11/05/2	
	Sample Drawn By Sample Location	: M/s.Hubert En : NA	viro care Systems (P)	Ltd. Sampl	e quantity : 2 Litre	2S
	Environmental Cond Sampling Method &	A CHAPTER COLOR		lity (%) : 56.0		
Kat	S.No.	Test Parameters	Units	Results	Tes	t Method
	31 Zinc		mg/l	BLQ (LOQ: 0.01)	USEPA	200.8 : 1994

BLQ : Below Limit of Quantification, LOQ: Limit of Quantification, mg/l: milligram per Litre. \*\*\*End of Report\*\*\*

An

D.Anusuya Deputy Quality Manager Authorized Signatory

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### **Laboratory Services Division**

(Chemical & Biological Testing) FSSAI Notified Laboratory ISO 9001, 14001 & 45001 Certified.

	÷	TEST REI		ULR	Page : 1 of 1 : TC1231024000021285F
Name of the Client	: M/s. TamilNadı	1 Petroproducts Ltd.,		Report No. Sample ID No	: HECSL/WT/116/050424 : 050424314
Address of the Client	: PO Plant, Mana Manali, Chenna	ıli Express High Way, 11 - 600068.		Sampling Date	: 05/04/2024
Group	: Water			Received Date	: 05/04/2024
	: Bore Well Wate	<b>R</b> *		Commenced Da	ate: 08/04/2024
Sample Mark	: Bore well Water : NA	r 1		Completed On Report Date	: 10/04/2024 : 11/05/2024
1 2	:M/s.Hubert Env :NA	viro care Systems (P)	Ltd.	Sample quanti	ity : 100ml
	: Temperature (° : HECS-G/Micro	C): 21.0   Humid b/Sop/04	ity (%) : 45.0		
S.No. Test Para	imeters	Units	Results		<b>Test Method</b>
Discipline : Biological		1	L		
1 Faecal Coliform		MPN/100ml	<2		IS 1622 : 1981
2 Total Coliform		MPN/100ml	<2		IS 1622 : 1981

Note:- MPN-Most Propable Number, <2 is Considered as Absent.

\*\*\*End of Report\*\*\*



Dr. Rajkumar Samuel **Director Technical Authorized Signatory** 

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### **Laboratory Services Division**

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	TEST REPORT	ULR Report No.	Page : 1 of 3 : TC1231024000021117F : HECSL/WT/115/050424
Name of the Client	: M/s. TamilNadu Petroproducts Ltd.,	Sample ID No	: 050424313
Address of the Client	: PO Plant, Manali Express High Way, Manali, Chennai - 600068.	Sampling Date	: 05/04/2024
Group	: Water	Received Date	: 05/04/2024
Sample Name	: Bore Well Water	Commenced Date	: 05/04/2024
Sample Mark Sample Reference	: Borewell Water 2 : NA	Completed On Report Date	: 12/04/2024 : 11/05/2024
Sample Drawn By Sample Location	: M/s.Hubert Enviro care Systems (P) Ltd. : NA	Sample quantity	2 Litres
Environmental Condition Sampling Method & Plan	: Temperature (°C) : 32.0   Humidity (%) : 56.0 : IS 17614(Part-1):2021		

S.No.	<b>Test Parameters</b>	Units	Results	Test Method
Discip	line : Chemical			
1	Biological Oxygen Demand (BOD)@ 27°C For 3 days	mg/l 2.0		IS 3025 Part 44: 1993
2	Calcium as Ca	mg/l	128.25	IS 3025 Part 40: 1991(EDTA Titrimetric Method)
3	Chemical Oxygen Demand (COD)	mg/l	16.0	IS 3025 Part 58: 2006
4	Chloride as Cl	mg/l	831.4	IS 3025 Part 32: 1988 (Argentometric Method)
5	Residual Free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part 26): 2021 (DPD method b,c)
6	Colour	Hazen units	2.0	IS 3025 (Part4): 2021
7	Dissolved oxygen	mg/l	6.4	IS 3025 (Part 38): 1989 ( Titrimetric Method)
8	Electrical Conductivity at 25°C	μS/cm	3810.0	IS 3025 Part-14: 2013
9	Fluoride as F	mg/l	0.52	APHA 23rd edition (Method 4500- F-B,D): 2017
10	Iron as Fe	mg/l	2.11	IS 3025 (Part 53): 2003
11	Magnesium as Mg	mg/l	65.61	IS 3025 Part 46: 1994 (Valumetric Method using EDTA)
12	Nitrate as NO3	mg/l	14.17	APHA 23rd edition (Method 4500 NO3B): 2017
13	·Odour		Agreeable	IS 3025 (Part 5): 2018



M.Sivaprakasam Lab Manager **Authorized Signatory** 

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### **Laboratory Services Division**

(Chemical & Biological Testing) **FSSAI** Notified Laboratory ISO 9001, 14001 & 45001 Certified.

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	新統定目		TEST RI	FPAPT		
			<u>ILSI KI</u>	MARK KURLINGK, GRUNCHES	Page: 2 of 3	
			ULR		: TC1231024000021117F	
	Constant.		Report N			
Nam	e of the Client	: M/s. TamilNad	u Petroproducts Ltd			
Address of the Client : PO Plant, Mana Manali, Chenna		ali Express High Wa ai - 600068.	Samplin <sub>.</sub> y,	g Date : 05/04/2024		
Group : Water			Received	d Date : 05/04/2024		
Sample Name : Bore Well Wate		5K.	Commer	nced Date: 05/04/2024		
Sample Mark : Borewell Water		r 2	Complet			
•	e Reference	: NA		Report I		
	e Drawn By		viro care Systems (P	) Ltd. Sample	quantity : 2 Litres	
	ole Location	: NA	A) 39.0 1 77	$P_{1} = \langle 0 \rangle = R - \phi$		
	onmental Condition	IS 17614(Part-	C): 32.0   Humi	any (%): 56.0		
S.No.		arameters	Units	Results	Test Method	
14	pH at 25°C	C La L	e .	7.48	IS 3025(Part 11) : 2022 ( Electrometri	
					method)	
15	Salinity	т. т. <sub>р</sub>	ppt	1.51	APHA 23rd edition (Method 2520 B)	
					2017	
16	Sodium as Na		mg/l	430.0	IS 3025 Part 45: 1993 (Fleme emissio	
					Photometric Method)	
17	Sulphate as SO4		mg/l	277.9	IS 3025 Part 24 Sec 1: 2022( Turbidity	
10					Method)(Turbidity Method)	
18	Temperature(°C)	1 000	°C	26.7	IS 3025 (Part 9): 1984	
19	Total alkalinity as C		mg/l	350.0	IS 3025 (Part 23): 1986	
20	Total dissolved soli		mg/l	1969.0	IS 3025 (Part 16): 1984	
21	Total hardness as C	aCO3	mg/l	590.0	IS 3025 (Part 21): 2009	
22	Turbidity, NTU		NTU	18.7	IS 3025 (Part 10): 1984	
23	Aluminium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	
24	Arsenic		mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	
25	Cadmium		mg/l	BLQ (LOQ: 0.001)	USEPA 200.8 : 1994	
26	Chromium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	
27	Copper		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	
28	Lead		mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 : 1994	
29	Manganese		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 : 1994	



**M.Sivaprakasam** Lab Manager **Authorized Signatory** 

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			TEST RE	PORT	ULR Report No.	Page : 3 of 3 : TC1231024000021117F : HECSL/WT/115/050424
Name	of the Client	: M/s. TamilNadı	1 Petroproducts Ltd.,		Sample ID No Sampling Date	: 050424313
Addre	ess of the Client	: PO Plant, Mana Manali, Chenna	ıli Express High Way. 11 - 600068.	9	1 2	
Group		: Water			Received Date	: 05/04/2024
Sample	Name	: Bore Well Wate	Σ°.		Commenced D	ate: 05/04/2024
Sample	Mark	: Borewell Water	2		Completed On	: 12/04/2024
Sample	Reference	:NA			Report Date	: 11/05/2024
*	Drawn By le Location	: M/s.Hubert Env : NA	viro care Systems (P)	Ltd.	Sample quant	
	nmental Condition ng Method & Plan	: Temperature (° : IS 17614(Part-1		ity (%) : 56.0	2 5	
S.No.	Test P	arameters	Units	Resul	ts	Test Method
31	Zinc		mg/l	BLQ (LOQ	: 0.01)	USEPA 200.8 : 1994

Note:- BLQ-Below limit of Quantification, LOQ-Limit of Quantification, mg/I-milligrams per litre .

\*\*\*End of Report\*\*\*

M.Sivaprakasam Lab Manager Authorized Signatory

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### **Laboratory Services Division**

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			TEST REI	PORT		Page: 1 of 1	
					ULR	: TC1231024000021286F	
Name	Name of the Client : M/s. TamilNadu		Petroproducts Ltd.,		Report No. Sample ID No Sampling Date	: HECSL/WT/117/050424 : 050424315 : 05/04/2024	
Addre	ess of the Client	: PO Plant, Mana Manali, Chenna	li Express High Way, i - 600068.			: 03/04/2024	
Group		: Water	Received Date			: 05/04/2024	
Sample	Name	: Bore Well Wate	r		Commenced Da	ate: 06/04/2024	
Sample Sample	e Mark Reference	.: Borewell Water : NA	2		Completed On Report Date	: 08/04/2024 : 11/05/2024	
	e Drawn By e Location	: M/s.Hubert Env : NA	viro care Systems (P)	Ltd.	Sample quantity: 100ml		
	nmental Condition ng Method & Plan	: Temperature (° : HECS-G/Micro	, ,	ity (%) : 45.0			
S.No.	Test Pa	rameters	Units	Results		Test Method	
Discip	line : Biological						
1	Faecal Coliform		MPN/100ml	<2		IS 1622 : 1981	
2	Total Coliform		MPN/100ml	<2		IS 1622 : 1981	

Note:- MPN-Most Propable Number, <2 is Considered as Absent.

\*\*\*End of Report\*\*\*



Dr. Rajkumar Samuel **Director Technical Authorized Signatory** 

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### **Laboratory Services Division**

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Name	of the Client	: M/s. TamilNado	u Petroprodu	,		
Addre	ess of the Client	: PO Plant, Mana Manali, Chenna		igh Way,		
Group : Pollution & Envi				Received Date : 05/04/2024	k.	
Sample	Name	: Waste Water			Commenced Date: 05/04/2024	
Sample	Mark	: ETP Treated W	ater		Completed On :11/04/2024	
Sample Reference : NA				Report Date : 11/04/2024	ļ	
Sample	Drawn By	: M/s.Hubert Env	viro care Syst	ems (P) Ltd.	Sample quantity 2 Litres	
Enviroi	e Location nmental Condition ng Method & Plan	: NA : Temperature (° : IS 17614(Part-)		Humidity (%) :	56.0	
S.No.	Test Pa	rameters	Units	Results	Test Method	TNPCB Limits *
Discip Pestici	line : Chemical ides		T			Absent
1	Alachlor		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
2	Aldrin		mg/L.	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
3	Alpha BHC		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
4	Atrazine		mg/L.	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
5	Beta BHC		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
6	Butachlor		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
7	Chloropyrifos		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
8	Delta BHC		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
9	Dieldrin		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
				A CONTRACTOR OF THE OWNER OWNE		



D.Anusuya Deputy Quality Manager Authorized Signatory

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### **Laboratory Services Division**

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			TE	<u>ST REPORT</u>	ULR : TC123102 Report No. : HECS/PE	ge : 2 of 6 4000016078F /049/050424
Name	of the Client	: M/s. TamilNad	lu Petroprodu	cts Ltd.,	Sample ID No :050424222 Sampling Date :05/04/2024	
Addre	ess of the Client	: PO Plant, Mar Manali, Chenr		igh Way,		· ,
Group		: Pollution & Er			Received Date : 05/04/202	4
Sample	Name	: Waste Water			Commenced Date: 05/04/202	4
Sample		: ETP Treated \	Vater		Completed On : 11/04/202	4
	Reference	:NA			Report Date : 11/04/202	4
- Sample	Drawn By	: M/s.Hubert Er	iviro care Sys	tems (P) Ltd.	Sample quantity : 2 Litres	
	e Location	: NA	0			
•	nmental Condition	: Temperature (	°C): 32.0	Humidity (%) :	56.0	
Sampli	ng Method & Plan	: IS 17614(Part	-10):2021			
S.No.	Test Pa	rameters	Units	Results	Test Method	TNPCB Limits
10	Endosulfan alpha		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
11	Endosulfan beta		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
12 .	Endosulfan sulfate		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
13	Ethion		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
14	Gamma BHC		mg/L.	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
15	Malathion		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
16	o,p-DDD		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
17	o,p-DDE		mg/L.	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
18	o,p-DDT		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent



**D**.Anusuya

Deputy Quality Manager Authorized Signatory

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### **Laboratory Services Division**

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			<u>TE</u>	ST REPORT		ge : 3 of 6 4000016078F /049/050424
Name	of the Client	: M/s. TamilNadı	ı Petroprodu	cts Ltd.,	Sample ID No : 050424222 Sampling Date : 05/04/2024	}
Address of the Client : PO Plant, Mana Manali, Chenna			igh Way,			
Group		: Pollution & Env	vironment		Received Date : 05/04/2024	8
Sample	Name	: Waste Water			Commenced Date: 05/04/2024	
Sample		: ETP Treated W : NA	ater		Completed On : 11/04/2024	
•	Reference	: M/s.Hubert Env	ine come Cruci	oma (D) V ta	Report Date :11/04/2024 Sample quantity: 2 Litres	•
	e Drawn By e Location	· MA	Aro care Syst	ems (r) Lu.	Sample quantity & Littles	
Enviro	nmental Condition ng Method & Plan	: Temperature (° : IS 17614(Part-1	,	Humidity (%) :	56.0	
S.No.	T	rameters	Units	Results	Test Method	TNPCB Limits
19	p,p'-DDD		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
20	p,p'-DDE		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
21	p,p'-DDT		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
22	Parathion-methyl		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
23	Phorate		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
24	2,4-D		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
25	5 Isoproturon		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
26	Malaoxon		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
27	Methyl Paraoxon		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
28	Methyl Parathion		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
1						

D.Anusuya Deputy Quality Manager Authorized Signatory



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E126226E1

38

39

40

41

42

Ammonia as NH3

days @27 ° C

Boron as B

Ammonical Nitrogen as NH3-N

Bio-Chemical Oxygen Demand(BOD) 3

Zinc



### **Laboratory Services Division**

(Chemical & Biological Testing) **FSSAI Notified Laboratory** ISO 9001, 14001 & 45001 Certified.

	A COLUMN TO A C						
			TE	ST REPORT			e: 4 of 6
15	And the second				ULR :	TC1231024	000016078F
						HECS/PE/0	49/050424
Name	of the Client	: M/s. TamilNadu	Petroprodu	cts Ltd.,	Sample ID No :	050424222	
					Sampling Date :	05/04/2024	
Addre	ss of the Client	: PO Plant, Mana Manali, Chenna		igh Way,			
Group		: Pollution & Env			Received Date :	05/04/2024	
Sample	Name	: Waste Water			Commenced Date:	05/04/2024	
Sample		• ETP Treated W	ater		Completed On :	11/04/2024	
Sample	Reference	NA			Report Date :	11/04/2024	
Sample	Drawn By	: M/s.Hubert Env	viro care Syst	tems (P) Ltd.	Sample quantity :	2 Litres	
-	Location	: NA					
-	mental Condition	: Temperature (°	C): 32.0	Humidity (%) : :	56.0		
Samplin	ng Method & Plan	: IS 17614(Part-1	0):2021				
S.No.	Test Pa	rameters	Units	Results	Test Method	ł	<b>TNPCB</b> Limits *
29	Monocrotophos		mg/L	BLQ (LOQ:	HECSG/INS/SOP/032 Is	sue No.:01	Absent
				0.0001)	Issue Date:01.03.2	2021	
30	Phorate Sulfone		mg/L	BLQ (LOQ:	HECSG/INS/SOP/032 Is	sue No.:01	Absent
50	I notate Surione		8	0.0001)	Issue Date:01.03.2	2021	
31	Phorate Sulfoxide		mg/L	BLO (LOO:	HECSG/INS/SOP/032 Is	sue No.:01	Absent
51	Filorate Suffoxide		ing/L	0.0001)	Issue Date:01.03.		
20	A		mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 Revision	54.1994	0.2
32	Arsenic						2.0
33	Cadmium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 Revision	1 5.4: 1994	
34	Chromium		mg/l	BLQ (LOQ: 0.1)	USEPA 200.8 Revision	n 5.4: 1994	2.0
35	Copper		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 Revision	n 5.4: 1994	3.0
36	Nickel		mg/l	BLQ (LOQ: 0.1)	USEPA 200.8 Revision	n 5.4: 1994	3.0
37	Selenium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 Revision	n 5.4: 1994	0.05
					A REAL PROPERTY OF A DESCRIPTION OF A DE	the set of the local data and the set of the	

BLQ (LOQ: 0.1)

3.72

2.90

24.0

BLQ (LOQ 0.1)



mg/l

mg/l

mg/l

mg/l

mg/l

**D**.Anusuya

**Deputy Quality Manager Authorized Signatory** 

USEPA 200.8 Revision 5.4: 1994

IS 3025 (Part 34) Clause 2.3 1988

IS 3025 (Part 34) Clause 2.5 1988

IS 3025 (Part 44) 1993

IS 3025 (Part 57) Clause 6 2021

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

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### **Laboratory Services Division**

(Chemical & Biological Testing) FSSAI Notified Laboratory ISO 9001, 14001 & 45001 Certified.

			TE	EST REPORT		ge : 5 of 6 4000016078F /049/050424
Name	of the Client	: M/s. TamilNa	du Petroprodi	ucts Ltd.,	Sample ID No : 050424222 Sampling Date : 05/04/2024	
Address of the Client : PO Plant, Man Manali, Chenn			ligh Way,			
Group : Pollution & Env		nvironment		Received Date : 05/04/2024	8	
Sample	e Name	: Waste Water			Commenced Date: 05/04/2024	<b>i</b>
Sample Mark : ETP Treated W		Water		Completed On : 11/04/2024		
Sample Reference : NA		continue como Com		Report Date :11/04/2024 Sample quantity : 2 Litres		
	e Drawn By e Location	: M/s.Hubert E : NA	nviro care Sys	steins (r) Lta.	Sample quantity · 2 LITES	
	nmental Condition		(°C): 32.0	Humidity (%) :	56.0	
Sampli	ng Method & Plan	: IS 17614(Part				
S.No.	Test Par	ameters	Units	Results	Test Method	TNPCB Limits
43	Chemical Oxygen D	emand (COD)	mg/l	238.0	IS 3025 (Part 58) 2006	250
44	Chloride as Cl-	с <sup>196</sup> . м. н	mg/l	9370.0	IS 3025 (Part 32) Clause 2 1988	e
45	Cyanide as CN		mg/l	BLQ (LOQ 0.01)	IS 3025 Part 27 Clause 2 1986	0.2
46	Fluorides as F	n i s segura	mg/l	0.96	APHA 23 rd Edn. 4500 D-F Spadns method: 2017	2
47	Free Residual Chlori	ne	mg/l	BLQ (LOQ 0.1)	IS 3025 (Part 26) Clause 5 2021	69
48	Hexavalent Chromiu	m as Cr6+	mg/l	BLQ (LOQ 0.05)	IS 3025 (Part 52) Clause 6 2003	1
49	Oil and grease		mg/l	BLQ (LOQ 4.0)	IS : 3025 (Part 39) Clause 5 2021	10
50	pH value @ 25 ° C	5	-	6.20	IS 3025 (Part 11) Clause 2 2022	5.5 to 9.0
51	Phenolic compound		mg/l	BLQ (LOQ 0.01)	IS 3025 (Part 43) Clause 5 1992	1
52	Dissolved Phosphate	as P	mg/l	BLQ (LOQ 0.1)	APHA 23 rd Edn. 4500 P-B,D 2017	5
53	Residual Sodium Ca	rbonate	mEq/L	BLQ (LOQ 0.1)	IS:11624 1986	NA
54	Sulphate as SO42-		mg/l	529.6	IS:3025 (Part 24) Clause 4 1986	1000
55	Sulphide as S2-		mg/l	BLQ (LOQ 1.0)	IS 3025 (Part 29) Clause 2 1986	2
56	Temperature		· °C	27.2	IS:3025 (Part 09) 1984	40°C
					1	1



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### **Laboratory Services Division**

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100

		TE	ST REPORT	ULR		ge : 6 of 6 4000016078F
				Report No.	: HECS/PE	
Name of the Client	: M/s. TamilNad	u Petroprodu	icts Ltd.,	Sample ID No	: 050424222	
				Sampling Date	: 05/04/2024	ļ.
Address of the Client	: PO Plant, Man Manali, Chenn	8	igh Way,			
Group	: Pollution & En	vironment		Received Date	: 05/04/2024	k and a second se
Sample Name	: Waste Water			Commenced Da	te: 05/04/2024	
Sample Mark Sample Reference	: ETP Treated W : NA	ater		Completed On Report Date	: 11/04/2024 : 11/04/2024	
Sample Drawn By Sample Location	:M/s.Hubert En :NA	viro care Sys	tems (P) Ltd.	Sample quantit	ty : 2 Litres	
Environmental Condition Sampling Method & Plan	: Temperature (* : IS 17614(Part-:		Humidity (%) :	56.0		
S.No. Test Pa	rameters	Units	Results	Test Metl	nod	TNPCB Limits *
58 Total Kjeldahl Nitro	ogen as N	mg/l	6.0	IS 3025 (Part 34) Cla	ause 5.3 1988	100

Note:- BLQ-Below limit of Quantification, LOQ-Limit of Quantification, mg/I-milligrams per litre,

mg/l

\* - Marine Coastal Areas.

Total suspended solids @ 105° C

59

Remarks:- Treated Effluent Water as above parameters meets TNPCB Standards.

\*\*\*End of Report\*\*\*

4.0



**D**.Anusuya **Deputy Quality Manager Authorized Signatory** 

IS: 3025 (Part 17) 1984

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### **Laboratory Services Division**

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### **TEST REPORT**

Page: 1 of 1

S No Test Pa	rameters	Linite	Results	Test M	ethod	TNPCB Limits *
Sampling Method & Plan	: IS 17614(Part-1	0):2021				5.8°
Environmental Condition	: Temperature (°	C): 32.0	Humidity (%) :	56.0		
Sample Location	· NA					
Sample Drawn By	: M/s.Hubert Env	'iro care Sys	tems (P) Ltd.	Sample quan	tity : 2 Litres	
Sample Reference	: NA			Report Date	: 11/04/2024	4
Sample Mark	: ETP Treated W	ater		Completed On	11/04/2024	1
Sample Name	: Waste Water			Commenced I	Date: 05/04/2024	L .
Group	: Pollution & Env	ironment		Received Dat	e : 05/04/2024	4
Address of the Client	: PO Plant, Mana Manali, Chenna		igh Way,			
				Sampling Dat	e : 05/04/2024	4
Name of the Client	: M/s. TamilNadu	Petroprodu	cts Ltd.,	Sample ID No	: 050424222	2
				Report No.	: HECS/PE	/049/050424/N

S.No.	Test Parameters	Units	Results	Test Method	TNPCB Limits *
Discip	line : Chemical	L			
1	Alphamethrin	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
2	Cypermethrin	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
3	Deltamethrin	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
4	Permethrin	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	Absent
5	Mercury	mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 Revision 5.4: 1994	0.01
6	Lead	mg/l	BLQ (LOQ: 0.1)	USEPA 200.8 Revision 5.4: 1994	0.1
7	Alpha Emitters	microcurie/ml	BLQ(LOQ 0.000000001)	IS 14194 (Part-2)-1994	0.0000001
8	Beta emitters	microcurie/ml	BLQ(LOQ 0.0000000001)	IS 14194 (Part -1)-1994	0.000001

Note:- BLQ-Below limit of Quantification, LOQ-Limit of Quantification, mg/l-milligrams per litre, \* - Marine Coastal Areas.

Remarks:- Treated Effluent Water as above parameters meets TNPCB Standards.

\*\*\*End of Report\*\*\*



**D.Anusuya** 

**Deputy Quality Manager Authorized Signatory** 

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### **Laboratory Services Division**

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		<u>TEST REPORT</u>			ULR : TC123102 Report No. : HECS/PE	ge: 1 of 6 24000021110F /055/050424		
	of the Client	: M/s. TamilNad	and an op	×	Sample ID No         : 050424310           Sampling Date         : 05/04/2024			
Addre	ess of the Client	: PO Plant, Man Manali, Chenn		ligh Way,				
Group Sample	Name	: Pollution & En : Waste Water	vironment		Received Date : 05/04/2024 Commenced Date: 05/04/2024	-		
Sample		: STP Outlet : NA			Completed On : 11/05/2024 Report Date : 11/05/2024			
Sample	Drawn By e Location	: M/s.Hubert En : NA			Sample quantity : 2 Litres			
	nmental Condition	: Temperature ( : IS 17614(Part-		Humidity (%) :	56.0			
S.No.	Test Pa	rameters	Units	Results	Test Method	TNPCB Limits		
-	line : Chemical	- -		1				
Pestici	des			-		- <b>T</b>		
1	Alachlor		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	· , · ·		
2	Aldrin	а <sup>в 1</sup> 1920 г.	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-		
3	Alpha BHC		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-		
4	Atrazine		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-		
5	Beta BHC		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021			
6	Butachlor		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021			
7	Chloropyrifos		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021			
8	Delta BHC		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021			
9	Dieldrin		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01	•		



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Name of the Client Address of the Client Group Sample Name Sample Mark Sample Reference		<ul> <li>M/s. TamilNadi</li> <li>PO Plant, Mana Manali, Chenna</li> <li>Pollution &amp; Envi</li> <li>Waste Water</li> <li>STP Outlet</li> <li>NA</li> </ul>	u Petroprodu ali Express H ai - 600068. vironment	igh Way,	ULR: TC123102Report No.: HECS/PESample ID No <td: 05042431<="" td="">Sampling Date<td: 04="" 05="" 202<="" td="">Received Date<td: 04="" 05="" 202<="" td="">Commenced Date<td: 04="" 05="" 202<="" td="">Completed On<td: 05="" 11="" 202<="" td="">Report Date<td: 05="" 11="" 202<="" td=""></td:></td:></td:></td:></td:></td:>	4 4 4 4
Samp Enviro	e Drawn By le Location nmental Condition	: M/s.Hubert En : NA : Temperature (°	°C): 32.0	tems (P) Ltd. Humidity (%) :	Sample quantity : 2 Litres	
Sampli S.No.	ng Method & Plan Test Pa	: IS 17614(Part- rameters	10):2021 Units	Results	Test Method	TNPCB Limits
10	Endosulfan alpha	la de la composición de la composición Persoa de la composición de la composici	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	•
11	Endosulfan beta		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	
12	Endosulfan sulfate		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-
13	Ethion		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	
14	Gamma BHC		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-
15	Malathion		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-
16	o,p-DDD		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 - Issue Date:01.03.2021	
17	o,p-DDE		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	
18	o,p-DDT		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-

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Addre: Group Sample Sample Sample Sample Environ		u Petroprodu ali Express Hi ai - 600068. vironment wiro care Syst	igh Way,	ULR: TC1231024Report No.: HECS/PE/Sample ID No: 050424316Sampling Date: 05/04/2024Received Date: 05/04/2024Commenced Date <td: 04="" 05="" 2024<="" td="">Completed On: 11/05/2024Report Date: 11/05/2024Sample quantity<td: 2="" litres<="" td=""></td:></td:>	055/050424
S.No.	Test Parameters	Units	Results	Test Method	TNPCB Limits*
19	p,p'-DDD	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 · Issue Date:01.03.2021	
20	p,p'-DDE	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-
21	p,p'-DDT	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-
22	Parathion-methyl	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-
23	Phorate	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-
24	2,4-D	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	0
25	Isoproturon	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	
26	Malaoxon	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	
27	Methyl Paraoxon	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	
28	Methyl Parathion	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021	-



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Zinc

Ammonia as NH3

days @27 ° C

Ammonical Nitrogen as NH3-N

Bio-Chemical Oxygen Demand(BOD) 3

38

39

40

41



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				TE	<u>ST REPORT</u>	ULR Report No.	-	ge : 4 of 6 4000021110F 055/050424
N	Name of the Client : M/s. TamilNadu		1 Petroprodu	cts Ltd.,	Sample ID No Sampling Date	: 050424316 : 05/04/2024		
А	Address of the Client : PO Plant, Manal Manali, Chennai			igh Way,	San Ping 2 m			
Gr	oup		: Pollution & Env	vironment		Received Date	: 05/04/2024	
Sa	mple	Name	: Waste Water			Commenced Da		
Sa	Sample Mark : STP Outlet				Completed On	: 11/05/2024		
Sa	mple	Reference	:NA		5	Report Date	: 11/05/2024	
		Drawn By	: M/s.Hubert Env : NA	viro care Syst	tems (P) Ltd.	Sample quantit	y · 2 Litres	
En	nviror	e Location nmental Condition ng Method & Plan	• TA • Temperature (° • IS 17614(Part-1		Humidity (%) :	56.0		
S	.No.	Test Pa	rameters	Units	Results	Test Meth	nod	TNPCB Limits*
29	9	Monocrotophos		mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/03 Issue Date:01.0		-
30	0	Phorate Sulfone	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/03 Issue Date:01.0		æ
3	1	Phorate Sulfoxide	-	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/03 Issue Date:01.0		-
3:	2	Arsenic		mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 Revis	ion 5.4: 1994	-
3	3	Cadmium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 Revis	ion 5.4: 1994	67
3.	4	Chromium		mg/l	BLQ (LOQ: 0.01)	USEPA 200.8 Revis	ion 5.4: 1994	-
3	5	Copper		mg/l	BLQ (LOQ: 0.1)	USEPA 200.8 Revis	ion 5.4: 1994	-
3	6	Nickel	-	mg/l	BLQ (LOQ: 0.1)	USEPA 200.8 Revis	ion 5.4: 1994	-
3	7	Selenium		mg/l	BLQ (LOQ: 0.005)	USEPA 200.8 Revis	ion 5.4: 1994	-



BLQ (LOQ: 0.1)

1.59

1.32 4.0

mg/l

mg/l

mg/l

mg/l

Frees **D.Anusuya** 

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USEPA 200.8 Revision 5.4: 1994

IS 3025 (Part 34) Clause 2.3 1988

IS 3025 (Part 34) Clause 2.5 1988

IS 3025 (Part 44) 1993

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50

51

52

53

54

55

56

57

Oil and grease

pH value @ 25 ° C

Phenolic compound

Sulphate as SO42-

Sulphide as S2-

Temperature

Dissolved Phosphate as P

Residual Sodium Carbonate



### **Laboratory Services Division**

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		TH	<u>ST REPORT</u>	ULR : TC123102	ge : 5 of 6 4000021110F /055/050424	
Nai	Name of the Client : M/s. TamilNad		Petroprodu	icts Ltd.,	Sample ID No : 050424316	
Address of the Client: PO Plant, MansManali, ChenneGroup: Pollution & Env			ui - 600068.	ligh Way,	Sampling Date : 05/04/2024 Received Date : 05/04/2024	
Sample Name : Waste Water Sample Mark : STP Outlet Sample Reference : NA					Commenced Date: 05/04/2024 Completed On : 11/05/2024 Report Date : 11/05/2024	1
Sam	ple Drawn By pple Location ironmental Condition	: M/s.Hubert Env : NA : Temperature (°		tems (P) Ltd. Humidity (%) :	Sample quantity : 2 Litres	
	pling Method & Plan	: IS 17614(Part-1		numunty (76):	30.0	
S.N	lo. Test Par	rameters	Units	Results	Test Method	TNPCB Limits*
42	Boron as B	ent de la desta de la composición de la	mg/l	BLQ (LOQ 0.1)	IS 3025 (Part 57) Clause 6 2021	-
43	Calcium as Ca	the state of	mg/l	88.0	IS 3025 (Part 40) Clause 5 1991	
44	Chemical Oxygen D	emand (COD)	mg/l	20.0	IS 3025 (Part 58) 2006	50
45	Chloride as Cl-	i de la restruction	mg/l	246.9	IS 3025 (Part 32) Clause 2 1988	6
46	Cyanide as CN		mg/l	BLQ (LOQ 0.01)	IS 3025 Part 27 Clause 2 1986	
47	Fluorides as F		mg/l	BLQ (LOQ 0.1)	APHA 23 rd Edn. 4500 D-F Spadns method: 2017	-
48	Free Residual Chlor	ine	mg/l	BLQ (LOQ 0.1)	IS 3025 (Part 26) Clause 5 2021	
49	Hexavalent Chromit	um as Cr6+	mg/l	BLQ (LOQ 0.05)	IS 3025 (Part 52) Clause 6 2003	-
						a second and a second

BLQ (LOQ 4.0)

7.86

BLQ (LOQ 0.01)

0.42

BLQ (LOQ 0.1)

386.4

BLQ (LOQ 1.0)

26.8

CHRESYSTRY CHRESYSTRY Channail Channail

mg/l

•

mg/l

mg/l

mEq/L

mg/l

mg/l

°C

5.5-9.0

-

-

-

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IS: 3025 (Part 39) Clause 5 2021

IS 3025 (Part 11) Clause 2 2022

IS 3025 (Part 43) Clause 5 1992

APHA 23 rd Edn. 4500 P-B,D 2017

IS:11624 1986

IS:3025 (Part 24) Clause 4 1986

IS 3025 (Part 29) Clause 2 1986

IS:3025 (Part 09) 1984

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### **Laboratory Services Division**

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			TE	<u>ST REPORT</u>	ULR Report No.		ge: 6 of 6 4000021110F (055/050424
Name	of the Client	: M/s. TamilNad	u Petroprodu	icts Ltd.,	Sample ID No		
Addres	ss of the Client	: PO Plant, Mana Manali, Chenna	ali Express H		Sampling Date	: 05/04/2024	1
Group		: Pollution & Env			Received Date	: 05/04/2024	l .
Sample	Name	: Waste Water			Commenced D	Date: 05/04/2024	l .
Sample Sample	Mark Reference	: STP Outlet : NA			Completed On Report Date	: 11/05/2024 : 11/05/2024	
	Drawn By e Location	:M/s.Hubert Env :NA	viro care Syst	tems (P) Ltd.	Sample quant		
	mental Condition g Method & Plan	<ul> <li>Temperature (°</li> <li>IS 17614(Part-1)</li> </ul>		Humidity (%) :	56.0		х. С. 1. ст.
S.No.	Test Par	rameters	Units	Results	Test Me	thod	TNPCB Limits*

5.190.	rest rarameters	Units	Results	Test Method	TNPCB Limits*
58	Total dissolved solids @ 180° C	mg/l	1980.0	IS 3025 (Part 16) 1984	
59	Total Kjeldahl Nitrogen as N	mg/l	2.03	IS 3025 (Part 34) Clause 5.3 1988	-
60	Total suspended solids @ 105° C	mg/l	12.0	IS: 3025 (Part 17) 1984	20

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

\*-Mega and Metropolitan Cities as per Standards for STP Outlet.

Remarks:- Treated Effluent Water as above parameters meets TNPCB Standards.

\*\*\*End of Report\*\*\*



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### **Laboratory Services Division**

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#### **TEST REPORT**

Page: 1 of 2

		Report No. : HECS/PE/055/050424/N
Name of the Client	: M/s. TamilNadu Petroproducts Ltd.,	Sample ID No : 050424316
Address of the Client	: PO Plant, Manali Express High Way, Manali, Chennai - 600068.	Sampling Date : 05/04/2024
Group	: Pollution & Environment	Received Date : 05/04/2024
Sample Name	: Waste Water	Commenced Date: 05/04/2024
Sample Mark	: STP Outlet	Completed On : 11/05/2024
Sample Reference	: NA	Report Date : 11/05/2024
Sample Drawn By Sample Location	: M/s.Hubert Enviro care Systems (P) Ltd. : NA	Sample quantity : 2 Litres
<b>Environmental Condition</b>	: Temperature (°C): 32.0   Humidity (%): 56.0	
Sampling Method & Plan	: IS 17614(Part-10):2021	

S.No.	Test Parameters	Units	Results	Test Method
Discip	line : Chemical			
1	Alphamethrin	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021
2	Cypermethrin	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021
3	Deltamethrin	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021
4	Permethrin	mg/L	BLQ (LOQ: 0.0001)	HECSG/INS/SOP/032 Issue No.:01 Issue Date:01.03.2021
5	Mercury	mg/l	BLQ (LOQ: 0.1)	USEPA 200.8 Revision 5.4: 1994
6	Lead	mg/l	BLQ (LOQ: 0.1)	USEPA 200.8 Revision 5.4: 1994
7	Alpha Emitters	microcurie/ml	BLQ(LOQ 0.000000001)	IS 14194 (Part-2)-1994
8	Beta emitters	microcurie/ml	BLQ(LOQ 0.000000001)	IS 14194 (Part -1)-1994

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

\*-Mega and Metropolitan Cities as per Standards for STP Outlet.

Remarks:- Treated Effluent Water as above parameters meets TNPCB Standards.

\*\*\*End of Report\*\*\*



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### ANNEXURE – 6

# CORPORATE SOCIAL RESPONSIBILITY

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

















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