Tamilnadu Petroproducts Limited

Ref: TPL – PO/ 2025/EC Comp/05

23rd May- 2025

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

Dear Sir,

Sub: TPL – ECH – PO Plant – Environmental Clearance (EC) – Six Monthly Compliance Report - Oct 2024 to Mar-2025 - 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.

We herewith attach the EC compliance status report for the period from October 2024 to March 2025 for your kind reference.

Thanking you,

Yours faithfully, For Tamilnadu Petroproducts Limited

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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 2024 to MAR 2025

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

(A) Specific Condition:

	Conditions	Compliance
i	Caustic scrubber shall be provided to	Complied
	control Chlorine emissions. The scrubbed	Caustic scrubber is provided to contro
	water should be sent to ETP for further	Chlorine emissions. The scrubbed wate
	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.
2 	to indicate higher that permissible value	Measuring concentration c
	of controlled parameters. At no time, the	circulating caustic and vent ga
	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 in level.
	equipment so that in case of any increase	• It is also replaced, whenever th
	in pollutants beyond permissible limits,	concentration goes below the limit.
	plant should be automatically stopped.	
		Online Chlorine analyser is installed i
		the scrubber vent stack with alarm se
		at 1.5 ppm as high alarm value fo
		continuous monitoring and real tim
		online monitoring data is bein
		transmitted to TNPCB and CPCB'
		servers.
		The emission levels have always bee
		maintained within the prescribe
		standards.
		The emission levels are continuous
		monitored, and real time monitorin
		data is being transmitted online t
		TNPCB and CPCB's servers.
		Interlocking system is provided with th
		pollution control equipment, to shu
		down the unit, in case of any increase i
BOI		pollution load.



i Ambient air quality data shall be collected	Complied
as per NAAQS standards notified by the ministry vide GSR No. 826 (E) dated 16.09.2009 the levels of PM ₁₀ , PM _{2.5} , SO ₂ ,	 Ambient Air Quality (AAQ) is monitored manually at 2 locations 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 PM _{2.5} , PM ₁₀ , SO ₂ ,
on its website and shall update the same	CO, NO _x , Ammonia, Chlorine by
periodically. It shall simultaneously be	internal lab once in a week.
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 rea- 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 or 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 CPCE as well as the Regional office of MoEl once in six months.
iii 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.

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



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



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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 is met with
	m ³ /day and prior permission should be	Tertiary treated reverse osmosis (TTRO)
	obtained from competent authority.	water from CMWSSB, based on prior
		permission & has not exceeded 1650
		m3/day.
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
TRI	PRO	periodically.
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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.
1	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 &
		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.
		Firefighting system is provided as per
	ж. Э.	the norms and obtained Fire license
		from Tamilnadu Fire & Rescue services,
CTP	OPROD	Govt. of Tamilnadu.
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assessment report should be R satisfactorily implemented. a S	 Propylene, Dichloropropane and Propylene oxide storage tanks. Complied Recommendations given in the risk assessment report are implemented and being maintained. Salient recommendations are as follows Nitrogen gas padding is provided in propylene oxide storage and during transfer to prevent air entering the system and forming explosive mixture.
	 Remote operated shut off valve is provided at inlet of reactor feed line to cut off chlorine, in case of emergency. Manual isolation at Heavy Chemical. Division and automatic shutoff valve at PO plant are provided in the chlorine pipelines. Medium velocity sprinkler system is provided to propylene oxide and propylene storage bullets. Dyke is provided in the storage area to contain spill. Fencing is provided with security, to the entire storage area. Entry is restricted to 50 m from the storage area and being ensured. The area around the storage is free of ignition sources and othe



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



	Concrel Conditions	
	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 will be 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, in case of any
	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 given
	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
	plant area shall be kept well within the	Acoustic hoods, silencers, enclosures,
	standards by providing noise control	etc., are provided keep the noise level
	measures including acoustic hoods,	within the prescribed standards.
	silencers, enclosures, etc., on all sources	Ambient noise levels at five locations
	of noise generation. The ambient noise	are being monitored manually during
	levels shall conform to the standards	day and nighttime by internal lab once
	prescribed under Environment	in a month.
	presended under Environment	



	(Protection) Act 1989 viz 75 dBA (day	The ambient noise levels are within
	time) and 70 dBA (night time)	the prescribed standards of 75 dBA
		(daytime) and 70 dBA (nighttime).
v	The company shall harvest rainwater	Complied
	from the roof tops of the buildings and	Rainwater harvesting facility is provided
	storm water drains to recharge the	at the following buildings to collect roof
	ground water and use the same water for	top rainwater and it is let into
	the process activities of the project to	freshwater reservoir.
	conserve fresh water.	Mechanical workshop
		Fire water pump house
		Raw Water Pump house
		Production Store Room
		Area covered is 5000 m^2 .
-		The harvested water is utilised for
		process activities to conserve fresh
		water.
		Additionally, Recharge percolation pits
		are provided to recharge the rainwater
		into the pits.
vi	Training shall be imparted to all	Complied
	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
L	LTROPRO	



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and public hearing relating to the project	management and risk assessment
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and public hearing relating to the project shall be implemented.	 management and risk assessment report are being implemented regularly. Nitrogen gas padding is provided in propylene oxide storage and during transfer, to prevent air entering the system and forming explosive mixture. Remote operated shut off valve is provided at inlet of reactor feed line to cut off chlorine, in case of emergency. Manual isolation at HCD plant and automatic shutoff valve at ECH plant are provided in the chlorine pipelines. Medium velocity sprinkler system is provided to propylene oxide and propylene storage bullets. Dyke is provided in the storage area to contain spill. Fencing is provided with security, to the entire storage area. Entry is restricted to 50 m from the storage area and being ensured. The area around the storage is free of ignition sources and other hazards. Sensors with alarm systems are provided in the storage bullets Fire hydrant system is provided
	 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.
The company shall undertake all	Being Complied
ix relevant measures for improving the	Following social upliftment schemes are
socio-economic conditions of the	being carried out in the nearby area.
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	surrounding area CSR activities shall be	1) Primary Health Care Centre (PHCC)
	undertaken by involving local villages	is provided at the following locations
	and administration.	to cater to the primary health care
		needs of the people residing in
		nearby areas.
		 Sadayan Kuppam village, Manali
		 Vichoor village, Manali
		Seemavaram village
		Kannampalayam village
		Periyasekkadu villaæge
		• Mobile PHCC is provided.
		2) Rest Rooms were constructed at the
		following locations.
		Government high school at Manali
		New Town.
		• Government high school at Redhills.
		 Government high school at Vichoor.
		 Government high school at
		Padiyanallur
		Near Sathankadu police station
	The company shall undertake eco-	Complied
	developmental measures including	Eco-developmental measures (mainly
х	community welfare measures in the	green belt development) are taken to
Â	project area for the overall improvement	improve the environment.
	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
	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/annum are allocated
	stipulated by the Ministry of Environment	to implement the conditions stipulated
	and Forests as well as the State	by the Ministry of Environment and
	Government along with the	of the minory of Environment and
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	implementation schedule for all the conditions stipulated herein. The funds so earmarked for environmental management / pollution	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 st March in Form – V as is mandated shall be submitted to the concerned State pollution Control Board as prescribed under Environment (Protection) Rules 1986, as amended subsequently shall also be put on the	Complied The environmental statement (Form V) is being submitted to TNPCB once in a year before 30 th Sep every year. Environmental statement (Form V) for the year 2023 – 2024 was submitted on 20.09.2024.



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	website of the company along with the status of compliance of environmental clearance conditions and shall also sent to the respective Regional offices of MoEF by email.	Further, a copy of Form V is uploaded in the company's website. (www.tnpetro.com) The six-monthly compliance status including results of monitored data is being submitted to MOEF Regional Office through e-mail regularly.
	The project proponent shall inform the	Complied
	public that the project has been accorded	Advertisements in two local newspapers
	environmental clearance by the Ministry	(In English in The Financial Express and
	and copies of the clearance letter are	in Tamil in Makkal Kural) was published
	available with the SPCB / Committee and	on 10.10.2018 and copies of the same
	may also be seen at website of the	were submitted to the Regional Office.
	Ministry at http;//envfor.nic.in. this shall	
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
xvii	the date of financial closure and final	final approval of the project by the
	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.







ISO 9001:2015 Certified Laboratory NABL (ISO / IEC 17025:2017) Accredited & (A CONSTITUENT BOARD OF QUALITY COUNCIL OF INDIA)

TEST REPORT

SI.No PARAMETERS PROTOCOL UNIT RESULT NAAQS* 1 Particulate Matter (PM 2.5) IS 5182 Part 24-2019 µg / m³ 31.50 60 2 Respirable Particulate Matter (PM 10), IS 5182 Part 23-2012 µg / m³ 61.50 100 3 Sulphur Dioxide (SO2) IS 5182 Part 2 -212 µg / m³ 11.60 80 4 Nitrogen Dioxide (NO2) IS 5182 Part 6-2012 µg / m³ 13.10 80 5 Ozone (O3) IS 5182 Part 9-1974 R.2009 µg / m³ 17.80 180 6 Ammonia (NH3) IS 5182 Part 25-2018 µg / m³ 18.20 400 BDL – Below Detectable Limit ; DL – Detection Limit Emarks: The above results meet the *National Ambient Air Quality Standards –CPCB		NAME OF INDUSTRY ADDRESS Sample Ref No : GEL/AAQ/551/03 Sample Ref No : 551/03 Sampling Location Sample Description Sample Drawn By /Date Received On Analysis Commenced On Analysis Completed on Sampling Method Sampling Time Ambient Temperature Relative Humidity	: TAMILNADU PETROPRO Manali Express Highway, Manali, Chennai - 600 06 Date of Sampling : 20.02 Reporting Date : 05.04 : CP Station 2 : Ambient Air Monitoring : GEL/20.02.2025 : 20.02.2025 : 20.02.2025 : 05.04.2025 : IS 5182 (Part V) and (Pa : 8 Hrs : 38°C : 59%	88. 2025 4.2025	/IITED(PO-ECH F	PLANT)
2 Respirable Particulate Matter (PM10). IS 5182 Part 23-2012 µg / m³ 61.50 100 3 Sulphur Dioxide (SO2) IS 5182 Part 2 -212 µg / m³ 11.60 80 4 Nitrogen Dioxide (NO2) IS 5182 Part 6-2012 µg / m³ 13.10 80 5 Ozone (O3) IS 5182 Part 9-1974 R.2009 µg / m³ 17.80 180 6 Ammonia (NH3) IS 5182 Part 25-2018 µg / m³ 18.20 400 BDL – Below Detectable Limit ; DL – Detection Limit Remarks: The above results meet the *National Ambient Air Quality Standards –CPCB End of Report For GREENEX ENVIRO LABORATORY PVT LTD	SI.No			UNIT	RESULT	NAAQS*
3 Sulphur Dioxide (SO2) IS 5182 Part 2 -212 µg / m³ 11.60 80 4 Nitrogen Dioxide (NO2) IS 5182 Part 6-2012 µg / m³ 13.10 80 5 Ozone (O3) IS 5182 Part 9-1974 R.2009 µg / m³ 17.80 180 6 Ammonia (NH3) IS 5182 Part 25-2018 µg / m³ 18.20 400 BDL – Below Detectable Limit ; DL – Detection Limit Remarks: The above results meet the *National Ambient Air Quality Standards –CPCB End of Report End of Report	1	Particulate Matter (PM 2.5)	IS 5182 Part 24-2019	µg / m ³	31.50	60
4 Nitrogen Dioxide (NO2) IS 5182 Part 6-2012 μg / m³ 13.10 80 5 Ozone (O3) IS 5182 Part 9-1974 R.2009 μg / m³ 17.80 180 6 Ammonia (NH3) IS 5182 Part 25-2018 μg / m³ 18.20 400 BDL – Below Detectable Limit ; DL – Detection Limit IS 5182 Part 25-2018 μg / m³ 18.20 400 End of Report for GREENEX ENVIRO LABORATORY PVT LTD A CHENNAI	2	Respirable Particulate Matter (PM10),	· IS 5182 Part 23-2012	µg / m ³	61.50	100
5 Ozone (O ₃) IS 5182 Part 9-1974 R.2009 µg / m ³ 17.80 180 6 Ammonia (NH ₃) IS 5182 Part 25-2018 µg / m ³ 18.20 400 BDL – Below Detectable Limit ; DL – Detection Limit IS 5182 Part 25-2018 µg / m ³ 18.20 400 End of Report For GREENEX ENVIRO LABORATORY PVT LTD O A A A A A A A A A A A A A A A A A A A	3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	µg / m ³	11.60	80
6 Ammonia (NH ₃) IS 5182 Part 25-2018 µg / m ³ 18.20 400 BDL - Below Detectable Limit ; DL - Detection Limit End of Report Find of Report	4	Nitrogen Dioxide (NO2)	IS 5182 Part 6-2012	µg / m ³	13.10	80
BDL – Below Detectable Limit ; DL – Detection Limit Remarks: The above results meet the *National Ambient Air Quality Standards –CPCB End of Report for GREENEX ENVIRO LABORATORY PVT LTD CHENNAL	5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009	µg / m ³	17.80	180
Remarks: The above results meet the *National Ambient Air Quality Standards –CPCB End of Report for GREENEX ENVIRO LABORATORY PVT LTD CHENNAL	-			µg / m ³	18.20	400
for GREENEX ENVIRO LABORATORY PVT LTD						<u>()</u>
for GREENEX ENVIRO LABORATORY PVT LTD	Remark	s: The above results meet the *National Am	nbient Air Quality Standards –CPC	В	·	
ALL A GHENNAI		· · · · ·				
Verified By A.Kaviyarasi- Technical Manager		Adding A	CHENNAI 600 043			

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ISO 9001:2015 Certified Laboratory

TEST REPORT

Γ	NAME OF INDUSTRY ADDRESS Sample Ref No : GEL/AAQ/551/03 Sample Ref No : 551/03 Sampling Location Sample Description Sample Drawn By /Date Received On Analysis Commenced On Analysis Completed on Sampling Method Sampling Time Ambient Temperature Relative Humidity	: TAMILNADU PETROPRO Manali Express Highway, Manali, Chennai - 600 068 Date of Sampling : 20.02 Reporting Date : 05.0 : CP Station 2 : Ambient Air Monitoring : GEL/20.02.2025 : 20.02.2025 : 20.02.2025 : 05.04.2025 : 1S 5182 (Part V) and (Part : 8 Hrs : 38°C : 59%	3. 2.2025 4.2025	MITED(PO-ECH	PLANT)
SI.No	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*
1	Lead (Pb)	IS 5182 Part 22-2009	µg / m ³	BDL (DL=0.1)	1
2	Carbon Monoxide (CO) (1 Hour)	IS 5182 Part 10-1999 R.2009	mg/m ³	BDL (DL=1.15)	4
3	Arsenic (As)	IS 5182 Part 22-2009	µg / m3	BDL (DL=1.0)	6
- 4	Nickel (Ni)	IS 5182 Part 22-2009	µg / m3	BDL (DL=0.1)	20
_ 5	Benzene (C ₆ H ₆₎	IS 5182 Part 11-2012	µg / m ³	BDL (DL=0.1)	5
6	Benzo (a) Pyrene	IS 5182 Part 12-2009	µg / m3	BDL (DL=0.1)	1
	Below Detectable Limit ; DL – Detection Lin				
Remark	ks: The above results meet the *National An		B		
	for OPE	End of Report ENEX ENVIRO LABORATORY P			
	erified By arasi- Technical Manager	CHENNAI CHENNAI 600 043	VI LID		uthorized By ni – Head of the Laboratory

NOTE; 1. Test results shown in this test report relate only to the items tested.

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ISO 9001:2015 Certified Laboratory NABL (ISO / IEC 17025:2017) Accredited & (A CONSTITUENT BOARD OF QUALITY COUNCIL OF INDIA)

TEST REPORT

	NAME OF INDUSTRY	: TAMILNADU PETROPROD	OUCTS LIMIT	TED(PO-ECH PL/	ANT)
	ADDRESS	Manali Express Highway,			
		Manali, Chennai - 600 068.			
	Sample Ref No : GEL/AAQ/552/03 Sample Ref No : 552/03	Date of Sampling : 20.02.2 Reporting Date : 05.04.2			
	Sampling Location	: PO Filling Point	2025		
	Sample Description	: Ambient Air Monitoring			
	Sample Drawn By /Date	: GEL/20.02.2025			
	Received On	: 20.02.2025			
	Analysis Commenced On	: 20.02.2025			
	Analysis Completed on	: 05.04.2025			
	Sampling Method	: IS 5182 (Part V) and (Part)	XIV)		
	Sampling Time	: 8 Hrs			
	Ambient Temperature	: 38°C			
	Relative Humidity	: 59%			
SI.No	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*
1	Particulate Matter (PM 2.5)	IS 5182 Part 24-2019	µg / m³	31.50	60
2	Respirable Particulate Matter (PM10)	IS 5182 Part 23-2012	µg / m³	60.10	100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	µg / m ³	13.20	80
4	Nitrogen Dioxide (NO ₂)	IS 5182 Part 6-2012	µg / m³	16.80	80
5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009	µg / m ³	18.80	180
6	Ammonia (NH ₃)	IS 5182 Part 25-2018	µg / m ³	17.60	400
BDL-E	Below Detectable Limit ; DL - Detection Li	mit			()
Remark	ks: The above results meet the *National Ar	mbient Air Quality Standards – CPC	B	1.1	
		End of Report			•
	for GF	REENEX ENVIRO LABORATORY	PVT LTD		A .
A	1. 1	CHENNAL		0	
Δ.		CHENNAL		DA.	YZ.
110	fer I	AU 600 043			therized Du
	erified By	LID. * GREER	V		thorized By Head of the Laboratory
A.Kaviya	arasi- Technical Manager	*	ĸ	r renaswami – i	nead of the Laboratory

NOTE;

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GREENEX ENVIRO LABORATORY PVT LTD ISO 9001:2015 Certified Laboratory

TEST REPORT

	NAME OF INDUSTRY ADDRESS Sample Ref No : GEL/AAQ/552/03 Sample Ref No : 552/03 Sampling Location Sample Description Sample Drawn By /Date Received On Analysis Commenced On Analysis Completed on Sampling Method Sampling Time Ambient Temperature Relative Humidity	: TAMILNADU PETROPRO Manali Express Highway, Manali, Chennai - 600 068 Date of Sampling : 20.00 Reporting Date : 05.0 : PO Filling Point : Ambient Air Monitoring : GEL/20.02.2025 : 20.02.2025 : 20.02.2025 : 05.04.2025 : 1S 5182 (Part V) and (Pai : 8 Hrs : 38°C : 59%	3. 2.2025 4.2025	IITED(PO-ECH	PLANT)
SI.N o	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*
1	Lead (Pb)	IS 5182 Part 22-2009	µg / m ³	BDL (DL=0.1)	1
2	Carbon Monoxide (CO) (1 Hour)	IS 5182 Part 10-1999 R.2009	mg/m ³	BDL (DL=1.15)	4
3	Arsenic (As)	IS 5182 Part 22-2009	µg / m3	BDL (DL=1.0)	6
4	Nickel (Ni)	IS 5182 Part 22-2009	µg / m3	BDL (DL=0.1)	20
5	Benzene (C ₆ H ₆₎	IS 5182 Part 11-2012	µg / m ³	BDL (DL=0.1)	5
6	Benzo (a) Pyrene	IS 5182 Part 12-2009	µg / m3	BDL (DL=0.1)	1,
L	Below Detectable Limit ; DL – Detection Li				2
Remar	ks: The above results meet the *National Ar	mbient Air Quality Standards – CP0	СВ		3.

End of Report for GREENEX ENVIRO LABORATORY PVT LTD

Verified By

LABOR 0 CHENNAL 600 043

Authorized By K P Periaswami - Head of the Laboratory

A.Kaviyarasi- Technical Manager

NOTE; 1.

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TEST REPORT

	NAME OF INDUSTRY ADDRESS	: TAMILNADU PETROPRO Manali Express Highway, Manali, Chennai - 600 068		MITED(PO-ECH	PLANT)
	Sample Ref No : GEL/AS/553/03 Sample Rep No : 553/03	Date of Sampling : 20.02 Reporting Date : 05.04	.2025		
	Sampling Location	: STP Gate No : 5			
	Sample Description	: Ambient Air Monitoring			
	Sample Drawn By /Date	: GEL/20.02.2025			
	Received On	: 20.02.2025			
	Analysis Commenced On	: 20.02.2025			
	Analysis Completed on	: 05.04.2025			
	Sampling Method	: IS 5182 (Part V) and (Part	rt XIV)		
	Sampling Time	: 8 Hrs			
	Ambient Temperature Relative Humidity	: 38°C : 59%			
SI.N o	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*
1	Particulate Matter (PM 2.5)	IS 5182 Part 24-2019	µg / m ³	33.50	60
2	Respirable Particulate Matter (PM10)	IS 5182 Part 23-2012	µg / m ³	63.50	100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	µg / m ³	11.60	80
4	Nitrogen Dioxide (NO ₂)	IS 5182 Part 6-2012	µg / m ³	15.10	80
5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009	µg / m ³	17.95	180
6	Ammonia (NH ₃)	IS 5182 Part 25-2018	µg / m³	17.50	400
	Below Detectable Limit ; DL – Detection L				
Remar	ks: The above results meet the *National A		СВ		
		End of Report			
Ą	for G	CHENNAI	Y PVT LTD	PJ.	Authorized By
A.Kaviya	arasi- Technical Manager	10. 054		K P Periaswami	- Head of the Laboratory
	NOTE; 1. Test results shown in this te	st report relate only to the items tested.			

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ISO 9001:2015 Certified Laboratory

TEST REPORT

NAME OF INDUSTRY ADDRESS

Sample Ref No : GEL/AS/553/03 Sample Ref No : 553/03 Sampling Location Sample Description Sample Drawn By /Date Received On Analysis Commenced On Analysis Completed on Sampling Method Sampling Time Ambient Temperature Relative Humidity : TAMILNADU PETROPRODUCTS LIMITED(PO-ECH PLANT) Manali Express Highway, Manali, Chennai - 600 068. Date of Sampling : 20.02.2025 Reporting Date : 05.04.2025 : STP Gate No : 5 : Ambient Air Monitoring : GEL/20.02.2025 : 20.02.2025 : 20.02.2025 : 05.04.2025 : IS 5182 (Part V) and (Part XIV) : 8 Hrs : 38°C

SI.N o	PARAMETERS	: 59% PROTOCOL	UNIT	RESULT	
1	Lead (Pb)	IS 5192 Dad 00 0000		RESULT	NAAQS*
2	Carbon Manarity (200	. IS 5182 Part 22-2009	μg / m ³	BDL	1
-	Carbon Monoxide (CO) (1 Hour)	IS 5182 Part 10-1999 R.2009		(DL=0.1)	
3	Arsenic (As)		mg/m ³	BDL (DL=1.15)	4
		IS 5182 Part 22-2009	µg/m3	BDL	6
4	Nickel (Ni)	IS 5192 Dort 20,0000		(DL=1.0)	0
5	Benzene (C ₆ H ₆₎	IS 5182 Part 22-2009	µg / m3	BDL	20
-		IS 5182 Part 11-2012	110 / m3	(DL=0.1)	
6	Benzo (a) Pyrene		µg / m ³	BDL (DL=0.1)	5
)L — E	Below Detectable Limit ; DL – Detection	IS 5182 Part 12-2009	µg / m3	BDL (DL=0.1)	1

Remarks: The above results meet the *National Ambient Air Quality Standards –CPCB

erified By



End of Report

Authorized By K P Periaswami - Head of the Laboratory

A.Kaviyarasi- Technical Manager NOTE; 1. Test res

UIE,

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TEST REPORT

	NAME OF INDUSTRY ADDRESS	: TAMILNADU PETROPRO Manali Express Highway, Manali, Chennai - 600 06		IITED(PO-ECH PI	_ANT)
	Sample Ref No : GEL/AS/554/03	Date of Sampling : 20.02	.2025		
	Sample Ref No : 554/03	Reporting Date : 05.04	.2025		
	Sampling Location	: Near Main Gate			
	Sample Description	: Ambient Air Monitoring			
	Sample Drawn By /Date	: GEL/20.02.2025			
	Received On	: 20.02.2025			
	Analysis Commenced On	: 20.02.2025			
	Analysis Completed on	: 05.04.2025			
	Sampling Method	: IS 5182 (Part V) and (Pa	rt XIV)		
	Sampling Time	: 8 Hrs			
	Ambient Temperature	: 38°C			
SI.No	Relative Humidity	: 59%	UNIT	RESULT	NAAQS*
	PARAMETERS Particulate Matter (PM 2.5)			58.60	60
1		IS 5182 Part 24-2019	µg / m ³	56.60	00
2	Respirable Particulate Matter (PM10)	IS 5182 Part 23-2012	µg / m ³	89.80	100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	µg / m ³	12.90	80
4	Nitrogen Dioxide (NO ₂)	IS 5182 Part 6-2012	µg / m ³	19.20	80
5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009	µg / m ³	16.50	180
6	Ammonia (NH ₃)	IS 5182 Part 25-2018	µg / m ³	17.70	400
BDL – E	Below Detectable Limit ; DL - Detection Li	mit			
Remark	s: The above results meet the *National Ar	mbient Air Quality Standards - CPC	СВ		
		End of Report			
	for G F	REENEX ENVIRO LABORATORY	PVT LTD	A.5	0
Å	· Land	CHENNAL		Pr	M.
Ve	erified By	600 043		Au	horized By
A.Kaviya	rasi- Technical Manager	Ton + Cher	· K	P Periaswami – H	lead of the Laboratory

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GREENEX ENVIRO LABORATORY FVT LTD ISO 9001:2015 Certified Laboratory

TEST REPORT

	NAME OF INDUSTRY ADDRESS	: TAMILNADU PETROPRO Manali Express Highway, Manali, Chennai - 600 06		IITED(PO-ECH	PLANT)
	Sample Ref No : GEL/AS/554/03 Sample Ref No : 554/03 Sampling Location	Date of Sampling : 20.02 Reporting Date : 05.04 : Near Main Gate			
	Sample Description	: Ambient Air Monitoring			
	Sample Drawn By /Date	: GEL/20.02.2025			
	Received On	: 20.02.2025			
	Analysis Commenced On	: 20.02.2025			
	Analysis Completed on	: 05.04.2025			
	Sampling Method	: IS 5182 (Part V) and (Par	t XIV)		
	Sampling Time	: 8 Hrs			
	Ambient Temperature	: 38°C			
	Relative Humidity	: 59%		v	
	Relative Humidity	PROTOCOL	UNIT	RESULT	NAAQS*
			UNIT µg / m ³	BDL (DL=0.1)	NAAQS*
SI . No 1	PARAMETERS	PROTOCOL		BDL	
No 1	PARAMETERS Lead (Pb)	PROTOCOL IS 5182 Part 22-2009	µg / m ³	BDL (DL=0.1) BDL	1
No 1 2	PARAMETERS Lead (Pb) Carbon Monoxide (CO) (1 Hour)	PROTOCOL IS 5182 Part 22-2009 IS 5182 Part 10-1999 R.2009	µg / m ³ mg/m ³	BDL (DL=0.1) BDL (DL=1.15) BDL	1
No 1 2 3	PARAMETERS Lead (Pb) Carbon Monoxide (CO) (1 Hour) Arsenic (As) Nickel (Ni)	PROTOCOL IS 5182 Part 22-2009 IS 5182 Part 10-1999 R.2009 IS 5182 Part 22-2009	μg / m ³ mg/m ³ μg / m3	BDL (DL=0.1) BDL (DL=1.15) BDL (DL=1.0) BDL	1 4 6

Remarks: The above results meet the *National Ambient Air Quality Standards -CPCB



End of Report for GREENEX ENVIRO LABORATORY PVT LTD

Authorized By K P Periaswami - Head of the Laboratory

A.Kaviyarasi- Technical Manager NOTE:

Verified By

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TEST REPORT

NAME OF INDUSTRY ADDRESS	: TAMILNADU PETROPRODUCTS LIMITED(PO-ECH PLANT) Manali Express Highway, Manali, Chennai - 600 068.
Sample Ref No :GEL/AS/555/03 Sample Ref No :555/03	Date of Sampling : 20.02.2025
	Reporting Date : 05.04.2025
Sampling Location	: Near Flare Tower
Sample Description	: Ambient Air Monitoring
Sample Drawn By /Date	: GEL/20.02.2025
Received On	: 20.02.2025
Analysis Commenced On	: 20.02.2025
Analysis Completed on	: 05.04.2025
Sampling Method	: IS 5182 (Part V) and (Part XIV)
Sampling Time	: 8 Hrs
Ambient Temperature	: 38°C
Relative Humidity	: 59%

SI. No	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*
1	Particulate Matter (PM 2.5)	IS 5182 Part 24-2019	µg / m ³	31.30	60
2	Respirable Particulate Matter (PM10)	IS 5182 Part 23-2012	µg / m ³	63.50	100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	µg / m ³	11.60	80
4	Nitrogen Dioxide (NO ₂)	IS 5182 Part 6-2012	µg / m ³	13.40	80
5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009	µg / m ³	15.65	180
6	Ammonia (NH ₃)	IS 5182 Part 25-2018	µg / m ³	17.50	400
BDL -	Below Detectable Limit ; DL - Detection	Limit	1		
Rema	arks: The above results meet the *National	Ambient Air Quality Standards -CF	РСВ		

erified By

A.Kaviyarasi- Technical Manager

NOTE;

for GREENEX ENVIRO LABORATORY PVT LTD

End of Report

Authorized By K P Periaswami – Head of the Laboratory

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GREENEX ENVIRO LABORATORY PVT LTD ISO 9001:2015 Certified Laboratory

TEST REPORT

	NAME OF INDUSTRY ADDRESS	: TAMILNADU PETROPRO Manali Express Highway, Manali, Chennai - 600 068		ITED(PO-ECH	PLANT)
	Sample Ref No : GEL/AS/555/03 Sample Ref No : 555/03	Date of Sampling : 20.02. Reporting Date : 05.04			
	Sampling Location	: Near Flare Tower			
	Sample Description	: Ambient Air Monitoring			
	Sample Drawn By /Date	: GEL/20.02.2025			
	Received On	: 20.02.2025			
	Analysis Commenced On	: 20.02.2025			
	Analysis Completed on	: 05.04.2025			
	Sampling Method	: IS 5182 (Part V) and (Par	t XIV)		
	Sampling Time	: 8 Hrs			
	Ambient Temperature	: 38°C			
	Relative Humidity	: 59%			1
SI.No	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*
1	Lead (Pb)	IS 5182 Part 22-2009	μg / m ³	BDL (DL=0.1)	1
2	Carbon Monoxide (CO) (1 Hour)	IS 5182 Part 10-1999 R.2009	mg/m ³	BDL (DL=1.15)	4
3	Arsenic (As)	IS 5182 Part 22-2009	µg / m3	BDL (DL=1.0)	6
4	Nickel (Ni)	IS 5182 Part 22-2009	µg / m3	BDL (DL=0.1)	20
5	Benzene (C ₆ H ₆₎	IS 5182 Part 11-2012	µg / m ³	BDL (DL=0.1)	5
6	Benzo (a) Pyrene	IS 5182 Part 12-2009	µg / m3	BDL (DL=0.1)	1 3
	Below Detectable Limit ; DL – Detection Lin				
Remark	s: The above results meet the *National Ar	nbient Air Quality Standards – CPC	B		

Verified By

CHENNAI 600 043

End of Report for GREENEX ENVIRO LABORATORY PVT LTD

uthorized By K P Periaswami - Head of the Laboratory

A.Kaviyarasi- Technical Manager NOTE; 1. Test re

1. Test results shown in this test report relate only to the items tested.

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Oxygen (O₂)



GREENEX ENVIRO LABORATORY PVT LTD

IS:13270

ISO 9001:2015 Certified Laboratory NABL (ISO / IEC 17025:2017) Accredited & (A CONSTITUENT BOARD OF QUALITY COUNCIL OF INDIA)

TEST REPORT

	NAME OF INDUSTRY ADDRESS Sample Ref No : GEL/AS/ Sample Rep No : 555/03 SAMPLED ON STACK IDENTIFICATION NO PITOT TUBE CONSTANT AMBIENT TEMPERATURE GAS VOLUME SAMPLED		Manali Expres Manali, Cheni	nai - 600 068. ing : 20.02.2025 e : 05.04.2025	O-ECH PLANT)	
SI.No	PARAMETERS	RESULT	UNIT	Limit as per Ministry Of Environment and Forests Notification, 09.06.2002 (MOEF) (mg/Nm ³)	Limit as per TNPCB	PROTOCOL
1	Flue Gas Temperature	188	°C	<u> </u>	-	IS:11255
2	Flue Gas Pressure	3.60	mm Hg	-	-	IS:11255
3	Flue Gas Velocity	7.50	m / s	-	-	IS:11255
4	Volume of Gas Discharged	11530	Nm ³ / hr	-	-	IS:11255
5	Particulate Matter (PM)	6.40	mg / Nm ³	10(MAX)	-	IS:11255
6	Sulphur- di- oxide (SO ₂)	14.50	mg / Nm ³	50(MAX)	-	IS:11255
7	Nitrogen Dioxide (NO₂)≰	48.0	mg / Nm ³	350(MAX)	-	IS:11255
8	Carbon – di - oxide (CO ₂)	2.40	%	-	-	IS:13270
9	Carbon Monoxide (CO)	41.80	mg / Nm ³	150 (MAX)		IS:13270

Report Opinion: The above results meets the MOEF notification.

There is no limit for stack emission as per TNPCB Standards.

End of Report for GREENEX ENVIRO LABORATORY PVT LTD CHENNAI 600 043 erified By Authorized By 0" * Ch K P Periaswami - Head of the Laboratory A.Kaviyarasi- Technical Manager Test results shown in this test report relate only to the items tested. NOTE: 1.

%

1.85

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GREENEX ENVIRO LABORATORY PVT LTD ISO 9001:2015 Certified Laboratory

TEST REPORT NAME OF INDUSTRY TAMILNADU PETROPRODUCTS LIMITED(PO-ECH PLANT) ADDRESS Manali Express Highway, Manali, Chennai - 600 068. Sample Ref No : GEL/AS/555/03 Date Of Sampling : 20.02.2025 Sample Rep No : 555/03 : 05.04.2025 Reporting Date SAMPLED ON : 20.02.2025 STACK IDENTIFICATION NO Boiler Chimney PITOT TUBE CONSTANT : 0.1951 AMBIENT TEMPERATURE : 38° C GAS VOLUME SAMPLED : 400 liters **Discipline-** Chemical SI. PARAMETERS RESULT UNIT PROTOCOL No SOP-GEL-009:2024 1 Non Methane Hydrocarbons BDL(DL:0.2) Mg/Nm³ 2 Hydrocarbons BDL(DL:0.1) Mg/Nm³ SOP-GEL-010:2024 3 SOP-GEL-11:2024 Olefins BDL(DL:0.1) µg/Nm³ End of Report for GREENEX ENVIRO LABORATORY PVT LTD W CHENNAL NEX 600 043 By Authorized By fied A.Kaviyarasi- Technical Manager K P Periaswami – Head of the Laboratory 25 +

NOTE: 1. Test results shown in this test report relate only to the items tested.

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



GREENEX ENVIRO LABORATORY PVT LTD ISO 9001:2015 Certified Laboratory

PARAMETERS	UNIT	Result	Test Method
GAS VOLUME SAMPLED		: 400 liters	
AMBIENT TEMPERATURE		: 38° C	
PITOT TUBE CONSTANT		0.1951	
STACK IDENTIFICATION N	0	Boiler Chimney Stack-VOC	
SAMPLED ON		: 20.02.2025	
Sample Rep No : 555/03		Reporting Date , : 05.04.2	025
Sample Ref No : GEL/AS	/555/03	Date Of Sampling : 20.02.20	025
ABBALLOO		Manali, Chennai - 600 068.	
NAME OF INDUSTRY ADDRESS		Manali Express Highway,	CTS LIMITED(PO-ECH PLANT)
		<u>TEST REPORT</u>	

TEST DEDODT

			·	
1	Ethylene Oxide	Ppm	BDL(DL:0.01)	SOP-GEL-024:2024
2	Vinyl Chloride Monomer	* Ppm	BDL(DL:0.01)	SOP-GEL-024:2024
3	Ethylene Di-Chloride	Ppm	BDL(DL:0.01)	SOP-GEL-024:2024
4	Acrylonitrile	Ppm	BDL(DL:0.01)	SOP-GEL-024:2024
5	Propylene Oxide	Ppm	BDL(DL:0.01)	SOP-GEL-024:2024

BDL - Below Detectable Limit ; DL - Detection Limit

1.

erified By

SI.No

IRO LABORATORY PVT LTD for GREENEX ENV CHENNA 600 043 -Test results shown in this test report relate only to the items tested.

Authorized By

K P Periaswami - Head of the Laboratory

NOTE:

A.Kaviyarasi- Technical Manager

2. This test report shall not be reproduce anywhere except in full and in same format without the

approval of the laboratory





ISO 9001:2015 Certified Laboratory NABL (ISO / IEC 17025:2017) Accredited & (A CONSTITUENT BOARD OF QUALITY COUNCIL OF INDIA)

		TEST REP	ORT		
NAME OF INDUSTRY				O-ECH PLANT)	
ADDRESS					
Sample Dof No CEL/AS	556/02				
	550/05		•		
		1	, , , , , , , , , , , , , , , , , , , ,		
	0		50KVA		
	0				
	DESILLT		Limit as par Ministry Of	Limit as nor	PROTOCOL
FARAMETERS	RESULT	UNIT			FROTOCOL
			Notification, 09.06.2002 (MOEF) (mg/Nm ³)		
Flue Gas Temperature	159	°C		-	IS:11255
Flue Gas Pressure	7.60	mm Hg	-		IS:11255
Flue Gas Velocity	11.60	m / s	-	-	IS:11255
Volume of Gas Discharged	3560	Nm ³ / hr	-	-	IS:11255
Particulate Matter (PM)	26.0	mg / Nm ³	50(max)	-	IS:11255
Sulphur- di- oxide (SO ₂)	11.60	mg / Nm ³	-	-	IS:11255
Nitrogen Dioxide (NO ₂)	59.0	mg / Nm ³	650 (max)	-	IS:11255
Carbon – di - oxide (CO ₂)	1.70	%	-	-	IS:13270
Carbon Monoxide (CO)	54.47	mg / Nm ³	100 (max)	-	IS:13270
	ADDRESS Sample Ref No GEL/AS/ Sample Rep No 556/03 SAMPLED ON STACK IDENTIFICATION N PITOT TUBE CONSTANT AMBIENT TEMPERATURE GAS VOLUME SAMPLED PARAMETERS Flue Gas Temperature Flue Gas Pressure Flue Gas Velocity Volume of Gas Discharged Particulate Matter (PM) Sulphur- di- oxide (SO ₂) Nitrogen Dioxide (NO ₂) Carbon – di - oxide (CO ₂)	ADDRESSSample Ref NoGEL/AS/556/03Sample Rep No556/03SAMPLED ONSTACK IDENTIFICATION NOPITOT TUBE CONSTANTAMBIENT TEMPERATUREGAS VOLUME SAMPLEDPARAMETERSRESULTFlue Gas Temperature159Flue Gas Pressure7.60Flue Gas Velocity11.60Volume of Gas Discharged3560Particulate Matter (PM)26.0Sulphur- di- oxide (SO2)11.60Nitrogen Dioxide (NO2)59.0Carbon - di - oxide (CO2)1.70	NAME OF INDUSTRY ADDRESSTAMILNADU P Manali Express Manali, ChemSample Ref NoGEL/AS/556/03Date Of Sampli Sample Rep NoSample Rep No556/03Reporting DateSAMPLED ON20.02.2025STACK IDENTIFICATION NODG Stack- 125PITOT TUBE CONSTANT0.1951AMBIENT TEMPERATURE GAS VOLUME SAMPLED38° CGAS VOLUME SAMPLED400 litersPARAMETERSRESULTUNITFlue Gas Temperature159°CFlue Gas Velocity11.60m / sVolume of Gas Discharged3560Nm³ / hrParticulate Matter (PM)26.0mg / Nm³Sulphur- di- oxide (SO2)11.60mg / Nm³Nitrogen Dioxide (NO2)59.0mg / Nm³Carbon - di - oxide (CO2)1.70%	NAME OF INDUSTRY ADDRESSTAMILNADU PETROPRODUCTS LIMITED(P Manali Express Highway, Manali, Chennai - 600 068.Sample Ref No: GEL/AS/556/03 Sample Rep NoDate Of Sampling: 20.02.2025SAMPLED ON: 20.02.2025Reporting Date: 05.04.2025SAMPLED ON: 20.02.2025STACK IDENTIFICATION NODG Stack- 1250KVAPITOT TUBE CONSTANT: 0.1951AMBIENT TEMPERATURE: 38° CGAS VOLUME SAMPLED: 400 litersPARAMETERSRESULTUNITLimit as per Ministry Of Environment and Forests Notification, 09.06.2002 (MOEF) (mg/Nm³)Flue Gas Temperature159°C-Flue Gas Velocity11.60m / s-Volume of Gas Discharged3560Nm³ / hr-Particulate Matter (PM)26.0mg / Nm³50(max)Sulphur- di- oxide (SO2)11.60mg / Nm³-Nitrogen Dioxide (NO2)59.0mg / Nm³650 (max)	NAME OF INDUSTRY ADDRESSTAMLNADU PETROPRODUCTS LIMITED(PO-ECH PLANT) Manali Express Highway, Manali, Chennai - 600 068.Sample Ref No :: GEL/AS/556/03Date Of Sampling :: 20.02.2025Sample Rep No :: 556/03Date Of Sampling :: 20.02.2025SAMPLED ON:: 20.02.2025STACK IDENTIFICATION NODG Stack-1250KVAPITOT TUBE CONSTANT: 0.1951AMBIENT TEMPERATURE GAS VOLUME SAMPLED: 38° CGAS VOLUME SAMPLED: 400 litersPARAMETERSRESULTUNITLimit as per Ministry Of Environment and Forests Notification, 09.06.2002 (MOEF) (mg/Nm³)Limit as per TNPCBFlue Gas Temperature159°C-Flue Gas Velocity11.60m / s-Volume of Gas Discharged3560Nm³ / hr-Particulate Matter (PM)26.0mg / Nm³50(max)-Sulphur- di- oxide (SO2)11.60mg / Nm³650 (max)-Nitrogen Dioxide (NO2)59.0mg / Nm³650 (max)-Carbon - di - oxide (CO2)1.70%

Report Opinion: The above results meets the MOEF notification.

There is no limit for stack emission as per	TNPCB Standards.	
	End of Report	
A.Kaviyarasi- Technical Manager	for GREENEX ENVIRO LABORATORY PVT LTD	Authorized By K P Periaswami – Head of the Laborator

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ISO 9001:2015 Certified Laboratory

NAME OF INDUSTRY ADDRESS Manali, Chennai - 600 068. Sample Ref No : GEL/AS/556/03 Sample Rep No : 556/03 SAMPLED ON STACK IDENTIFICATION NO PITOT TUBE CONSTANT AMBIENT TEMPERATURE GAS VOLUME SAMPLED

TEST REPORT TAMILNADU PETROPRODUCTS LIMITED(PO-ECH PLANT)

Manali Express Highway,

Date Of Sampling : 20.02.2025 Reporting Date : 05.04.2025 20.02.2025 DG Stack- 1250KVA 0.1951 38° C 400 liters

No	Discipline- Chemical PARAMETERS	RESULT	UNIT	PROTOCOL
				SOP-GEL-009:2024
	Non Methane Hydrocarbons	BDL(DL:0.2)	Mg/Nm ³	
	Hydrocarbons	BDL(DL:0.1)	Mg/Nm ³	SOP-GEL-010:2024
	Olefins	BDL(DL:0.1)	µg/Nm ³	SOP-GEL-011:2024
	1. La Q	for GREENE		K P Periaswami – Head of the Laborator

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1º

	NAME OF INDUSTRY ADDRESS		<u>TEST REPORT</u> TAMILNADU PETROPRODUCTS Manali Express Highway, Manali, Chennai - 600 068.	
	Sample Ref No GEL/AS/5 Sample Rep No 557/03 SAMPLED ON STACK IDENTIFICATION NO PITOT TUBE CONSTANT AMBIENT TEMPERATURE GAS VOLUME SAMPLED) : : :	Date Of Sampling : 20.02.2025 Reporting Date : 05.04.2025 20.02.2025 Cl Scrubber Stack 0.1951 38° C 400 liters	
SI.No	PARAMETERS	UNIT	Result	Test Method
1	Chlorine	Mg/Nm ³	1.50	SOP-GEL-014:2024
BDL - I	Below Detectable Limit ; DL – Det		End of Report	
A.Ka	Verified By viyarasi- Technical Manager	aviro	X ENTRO TABORATORY PVT CHENNAI 600 043	K P Periaswami – Head of the Laboratory
	NOTE: 1. Test results 2. This test re approval of the	port shall not be rep	eport relate only to the items tested. roduce anywhere except in full and in	n same format without the



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Authorized By

K P Periaswami - Head of the Laboratory

DL –	Propylene Oxide Below Detectable Limit ; DL – De	Ppm etection Limit	BDL(DL:0.01)	SOP-GEL-024:2024
	Propylene Oxide		BDL(DL:0.01)	SOP-GEL-024:2024
	Acrylonitrile	Ppm	BDL(DL:0.01)	SOP-GEL-024:2024
	Ethylene Di-Chloride	Ppm	BDL(DL:0.01)	SOP-GEL-024:2024
	Vinyl Chloride Monomer	Ppm	BDL(DL:0.01)	SOP-GEL-024:2024
1	Ethylene Oxide	Ppm	BDL(DL:0.01)	SOP-GEL-024:2024
Vo	PARAMETERS	UNIT .	Result	Test Method
	NAME OF INDUSTRY ADDRESS Sample Ref No GEL/AS/ Sample Rep No 557/03 SAMPLED ON STACK IDENTIFICATION N PITOT TUBE CONSTANT AMBIENT TEMPERATURE GAS VOLUME SAMPLED	M 557/03 D F 2 O C 3	TEST REPORT AMILNADU PETROPRODUG Anali Express Highway, Anali, Chennai - 600 068. ate Of Sampling 20.02.20 Reporting Date 05.04.20 20.02.2025 CI Scrubber Stack-VOC 0.1951 38° C 400 liters	025

Verified By

A.Kaviyarasi- Technical Manager

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			TEST REPOR	Т	
	bie Ref No. :GEL/W/558/03			Report No.	:558/03
ADD	RESS Manali Ex Manali, C	press Highwa hennai - 600		Report Date Page: 1 of 5	: 05.04.2025
Sample Description :Effluent Water Sample Drawn By /Date :GEL/20.02.2025 Customer's Reference :Letter dated on 20.02.2025 Sample Mark : ETP- Inlet				Received On Commenced On Completed On	: 20.02.2025 : 20.02.2025 : 05.04.2025
SI. No	PARAMETERS .	Unit			TEST METHOD
	pline: Chemical	Unit	RESULTS		
	cides				
1					
	Alachlor	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
2	Aldrin	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
3	Alpha BHC	mg/l	BDL (DL:0.0001)	A INCO	SOP/GEL/ 012/2024
4	Atrazine	mg/l	BDL. (DL:0.0001)		SOP/GEL/ 012/2024
5	Beta BHC	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
6	Butachlor	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
7	Chloropyrifos -	mg/l	BDL (DL:0.0001)	HARE	SOP/GEL/ 012/2024
3	Delta BHC	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
)	Dieldrin	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
0	Deltamethrin	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
1	Endosulfan alpha	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
2	Endosulfan Beta	mg/l	BDL (DL:0.0001)	e • ⁶	SOP/GEL/ 012/2024
			FAOd Pages		• •
AKav	Verified By iyarasi- Technical Manager	for GREEN	NEX ENVIRO LABORA	RYPU	Authorized By P Periaswami – Head of the Laborator

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Authorized By

K P Periaswami - Head of the Laboratory

-		TES	T REPORT-ADDIT!		
Samp	le Ref No: GEL/W/558/03			Report No :558/03 Report Date:05.04.2025 Page of 2 of 5	
SI. No	PARAMETERS	Unit	RESULTS	TEST METHOD	
13	Endosulfan Sulfate	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
14	Ethion	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
15	Gamma BHC	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
16	Malathion	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
17	o,p'-DDD	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
18	o,p'-DDE	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
19	o,p'-DDT	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
20	p,p'-DDD	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
21	p,p'-DDE	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
22	p,p'-DDT	- mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
23	Parathion-methyl	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
24	Phorate	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024	
			End of Page	2	

fied By

HENNAL 600 043 * Ch 1.0

A.Kaviyarasi- Technical Manager

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 2. This test report shall not be reproduce anywhere except in full and in same format without the Approval of the laboratory

3. Unless informed by the customer the test items will not be retained for more than 10 days from

The date of issue of test report (exceptional for Microbiology and wastewater for which retaining time 7 days.)



Carro		TE	EST REPORT-ADDITIC	NAL SHEET
	ple Ref No: GEL/W/558/03			Report No :558/03 Report Date:05.04.2025 Page of 3 of 5
SI. No	PARAMETERS	Unit	RESULTS	TEST METHOD
25	2,4-D	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024
26	Isoproturon	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024
27	Malaoxon	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024
28	Methyl Paraoxon	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024
29	Methyl Parathion	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024
30	Monocrotophos	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024
31	Phorate Sulfone	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024
32	Phorate Sulfoxide	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024
33	Arsenic	mg/l	BDL (DL:0.005)	USEPA 200.8
34	Cadmium	mg/l	BDL (DL:0.01)	Revision 5.4:1994 USEPA 200.8
35	Chromium	mg/l	0.60	USEPA 200.8
36	Copper	mg/l	1.15	Revision 5.4:1994 USEPA 200.8
.Kavij	Verified By varasi- Technical Manager	for GREE	End of Page S NEX ENVIRO LABORA CHENNAI 600 043	Revision 5.4:1994

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0			ST REPORT-ADDITIC	JNAL SHEET
Sample Ref No: GEL/W/558/03				Report No :558/03
				Report Date:05.04.2025
				Page of 4 of 5
SI. No	DADAMETERS			TEST METHOD
37	PARAMETERS	Unit	RESULTS	
57	Nickel	mg/l	BDL	USEPA 200.8
0	Calasia		(DL:0. 1)	Revision 5.4:1994
38	Selenium	mg/l	BDL	USEPA 200.8
0	7:		(DL:0.005)	Revision 5.4:1994
39	Zinc	mg/l	BDL	USEPA 200.8
			(DL:0.1)	Revision 5.4:1994
10	Ammonia as NH3	mg/l	1.30	10-2025 D 24 4000 D 2000
	and the second se		1.00	IS:3025 P.34 1988 R.2009
1	Ammonical Nitrogen as NH3-N	mg/l	6.0	IS:3025 P.34 1988 R.2009
0			and the second second	1000001101100011.2000
2	Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C	mg/l	175	IS: 3025 P. 44 1993 R. 2009
.3	Boron as B	mg/l	0.85	IS: 3025 P. 57 2021
4	Sodium as Na	mg/l	560	
			000	IS 3025 P.45 1993
5	Chemical Oxygen	mg/l	1500	IS 2025 D 59, 2000
	Demand(COD)	J	1000	IS 3025 P.58. 2006
6	Chioride as Cl	mg/l	25000	IS 3025 P.32, 1988
		5	20000	13 3023 P.32. 1988
47	Cyanide as CN	mg/l	BDL	IS 3025 P.27, 1986
		U	(DL:0.01)	10 3020 F.27. 1900
В	Fluorides as F	mg/l	0.60	APHA 24 th Edn :2023
				4500 DF
			End of Page 4	
		for GREE	NEX ENVIRO LABOR	ATORY PVT LTD
			W CHENNA	
F	+-Kg-d		W 600 043	
l	Verified By	6	2	
Kavi	yarasi- Technical Manager		D. * GREA	Authorized By
	NOTE: 1. Test results shown in t	h:- 44		

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		TES	ST REPORT-ADDITIO	NAL SHEET
Samp	ble Ref No: GEL/W/558/03			Report No :558/03 Report Date:05.04.2025 Page of 5 of 5
SI.				TEST METHOD
No	PARAMETERS	Unit	RESULTS	
49	Free Residual Chlorine	mg/l	BDL(DL:0.2)	IS 3025 P.26 2021
50	Hexavalent Chromium as Cr6+	mg/l	BDL (DL:0.0001)	IS 3025 P.52 2003
51	Oil and grease	mg/l	8.0	IS 3025 P.39 2021
52	pH value @25°C	mg/l	11.68	IS:3025: P.11:2022
53	Phenolic Compound	mg/l	BDL(DL:0.2)	IS 3025:P.43:1992
54	Dissolved Phosphate as P	mg/l	0.80	APHA 24 th Edn :2023 4500 P-B,D
55	Residual Sodium Carbonate	mEq/L	Nil	IS: 11624 1986
56	Sulphate as SO4	mg/l	300	IS 3025 P.24 1986
57	Sulphide as S2	mg/l	Nil	IS 3025 P.29 1986
58	Temperature	°C	27.0	IS 3025 P.09 1984
59	Total dissolved solids @ 180°C	mg/l	46,080	IS 3025 P.16 1984
60	Total Kjeldahl Nitrogen as N	mg/l	120	IS:3025 P.34 1988 R.2009
61	Total suspended Solids @105°C	mg/l	1010	IS 3025 P.17 1984
		for GREE		5 RATORY PVT LTD
l	A. Kong	i. K	CHENNAI 600 043	Provide By
A.Ka	viyarasi- Technical Manager	-	10. * 600	K P Periaswami – Head of the Laboratory

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 - The date of issue of test report (exceptional for Microbiology and wastewater for which retaining time 7 days.)



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Sam	ple Ref No. :GEL/W/55	59/03	TEST REPOR			
CUS	TOMER NAME	TAMILNADU PETRO Manali Express Highw Manali, Chennai - 600	/ay,	Report No. :559/03 Report Date : 05.04. Page: 1 of 5 : 05.04.		
Sam Cust Sam	ple Description ple Drawn By /Date omer's Reference ple Mark	:Effluent Water :GEL/20.02.2025 :Letter dated on 20.02 : ETP - Outlet		Received On : 20.02.2025 Commenced On : 20.02.2025 'Completed On : 05.04.2025		
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD	
Disc	ipline: Chemical					
Pest	icides					
1	Alachlor	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
2	Aldrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
3	Alpha BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
4	Atrazine	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
5	Beta BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
3	Butachlor	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
7	Chloropyrifos	- mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
3	Delta BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
)	Dieldrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
0	Deltamethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
1	Endosulfan alpha	mg/l	BDL. (DL:0.0001)	Absent	SOP/GEL/ 012/2024	
2	Endosulfan Beta	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024	

Verified By

for GREENEX ENVIRO LABORATORY PVT LTD ORY CHENNAI 600 043 7 20

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*

Authorized By K P Periaswami - Head of the Laboratory

A.Kaviyarasi- Technical Manager

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Sam	De Rof No: OEL MUESO/00	IE	ST REPORT-ADDITI	ONAL SHEET	
	ple Ref No: GEL/W/559/03			Report No :559/03 Report Date:05.04.2025 Page of 5 of 5	
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
13	Endosulfan Sulfate	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
14	Ethion	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
15	Gamma BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
16	Malathion	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
17	o,p'-DDD	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
18	o,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
9	o,p'-DDT	- mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
20	p,p'-DDD	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
1	p,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
2	p,p'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
3	Parathion-methyl	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
4	Phorate	mg/l	BDL (DL:0.0001)BOO	Absent	SOP/GEL/ 012/2024
A A.Kav	Verified By yarasi- Technical Manager NOTE: 1. Test results show		NEX EN VIRO LABOR CHENNAL 600 043	ABORY PVT LTD K P Periaswa	Arthorized By ami – Head of the Laborator

2. This test report shall not be reproduce anywhere except in full and in same format without the Approval of the laboratory

3. Unless informed by the customer the test items will not be retained for more than 10 days



		TI	EST REPORT-ADDITIC	DNAL SHEET	
	ple Ref No: GEL/W/559/03			Report No :559/03 Report Date:05.04.2025 Page of 3 of 5	
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
25	2,4-D	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
26	Isoproturon	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
27	Malaoxon	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
28	Methyl Paraoxon	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
29	Methyl Parathion	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
30	Monocrotophos	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
31	Phorate Sulfone	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
32	Phorate Sulfoxide	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
33	Arsenic	mg/l	BDL (DL:0.005)	0.2	USEPA 200.8 Revision 5.4:1994
34	Cadmium	mg/l	BDL (DL:0.01)	2.0	USEPA 200.8 Revision 5.4:1994
5	Chromium	mg/l	BDL (DL:0.1)	2.0	USEPA 200.8 Revision 5.4:1994
6	Copper	mg/l	BDL	3.0	USEPA 200.8 Revision 5.4:1994
- Kav	Venified By iyarasi- Technical Manager NOTE: 1. Test results show		ENEX ENVIRO LABOR CHENNAR 600 043	ATORY PVT LTD	Authorized By wamit Head of the Laboratory

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GREENEX ENVIRO LABORATORY PVT LTD

Authorized By

K P Periaswami - Head of the Laboratory

ISO 9001:2015 Certified Laboratory

Sample Ref No: GEL/W/559/03				Report No :559/03 Report Date:05.04.2025 Page of 4 of 5		
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD	
37	Nickel	mg/l	BDL (DL:0. 1)	3.0	USEPA 200.8 Revision 5.4:1994	
38	Selenium	mg/l	BDL (DL:0.01)	0.05	USEPA 200.8 Revision 5.4:1994	
39	Zinc	mg/l	BDL (DL:0.1)	1.0	USEPA 200.8 Revision 5.4:1994	
40	Ammonia as NH3	mg/l	0.30	5.0	IS:3025 P.34 1988 R.2009	
41	Ammonical Nitrogen as NH3-N	mg/l	18.0	50	IS:3025 P.34 1988 R 2009	
42	Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C	mg/l	7.0	30	IS: 3025 P. 44 1993 R. 2009	
43	Boron as B	mg/l	0.40	2	IS: 3025 P. 57 2021	
44	Sodium as Na	mg/l	238	A REAL	IS 3025 P.45 1993	
45	Chemical Oxygen Demand(COD)	mg/l	110	250	IS 3025 P.58. 2006	
46	Chloride as Cl	mg/l	5820		IS 3025 P.32. 1988	
17	Cyanide as CN	mg/l	BDL (DL:0.01)	0.2	IS 3025 P.27. 1986	
48	Fluorides as F	mg/l	0.20	15.0	APHA 24 th Edn .2023 4500 D'F	

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A.Kaviyarasi- Technical Manager

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Samr	ple Ref No: GEL/W/559/03			Papart Na :550/02	
Sam	DIE REI NO. GEL/W/339/03			Report No :559/03 Report Date:05.04.2025 Page of 5 of 5	
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
49	Free Residual Chlorine	mg/l	BDL(DL:0.01)	1	IS 3025 P.26 2021
50	Hexavalent Chromium as Cr6+	mg/l	BDL (DL:0.05)	0.1	IS 3025 P.52 2003
51	Oil and grease	mg/l	BDL(DL:4.0)	10	IS 3025 P.39 2021
52	pH value @25°C	mg/l -	6.85	6.50 to 8.50	IS:3025: P.11:2022
53	Phenolic Compound	mg/l	BDL(DL:0.01)	1.0	IS 3025:P.43:1992
54	Dissolved Phosphate as P	mg/l	Nil	5.0	APHA 24 th Edn :2023 4500 P-B,D
55	Residual Sodium Carbonate	mEq/L	Nil		IS: 11624 1986
56	Sulphate as SO4	mg/l	1580	onatory	IS 3025 P.24 1986
57	Sulphide as S2	mg/l	Nil	2.0	IS 3025 P.29 1986
58	Temperature	°C	27.0	40° C at the point of discharge	IS 3025 P.09 1984
59	Total dissolved solids @ 180°C	mg/l	23,100		IS 3025 P.16 1984
60	Total Kjeldahl Nitrogen as N	mg/l	85.0	100	IS:3025 P.34 1988 R.2009
61	Total suspended Solids @105°C	mg/l	24.0	100	IS 3025 P.17 1984
		.1	Endlof Bage		0 0
F	Verified By	for GREE	CHENNAI	RYP	P Authorized By
A.Kav	viyarasi- Technical Manager	his test ren			swami – Head of the Laborate
1	NOTE: 1. Test results shown in t	ot be reprodu ory	uce anywhere except in fu	tested. Il and in same format without the	



Samp	le Ref No. :GEL/W/559/03		TEST REPOR		559/03	
ADDF Mana	RESS Mana li, Chennai - 600 068.	li Express Highv	PRODUCTS LIMITED		05.04.20	25
Samp Custo Samp	le Drawn By /Date :GEL/ mer's Reference :Lette	ent Water 20.02.2025 r dated on 20.02 - Outlet	.2025	Commenced On	: 20.02.20 : 20.02.20 : 05.04.20	025
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits fo Treated Outlet as p TNPCB		TEST METHOD
Discip	oline: Chemical					
Pestic						
1	Alphamethrin	mg/l	BDL (DL:0.0001)	Absent		SOP/GEL/ 012/2024
2	Cypermethrin	mg/l	BDL (DL:0.0001)	Absent		SOP/GEL/ 012/2024
3	Deltamethrin	mg/l	BDL (DL:0.0001)	Absent	V.	SOP/GEL/ 012/2024
 	Permethrin	mg/l	BDL (DL:0.0001)	Absent	-	SOP/GEL/ 012/2024
5	Mercury	mg/l	BDL (DL:0.01)	0.01		USEPA 200.08 REV 1994
	Lead	mg/l	BDL (DL:0.1)	0.1		USEPA 200.08 REV 1994
	Alpha Emitters Beta Emitters	Microcurie/ ml	BDL (DL:0.000000001)	0.000001		IS 14194(Part 2) 1994
		Microcurie/ m!	BDL (DL:0.00000001)	0.000001		IS 14194(Part 1) 1994
		for CREE	End of Page 1 NEX ENVIRO CABORA	TOPY		
Å	Verified By varasi- Technical Manager		CHENNAI 600 043	(PA	Authorized By
ANAVIN			She way			imi - Head of the Laborato

Approval of the laboratory

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GREENEX ENVIRO LABORATORY FVT LTD

K P Periaswami - Head of the Laboratory

ISO 9001:2015 Certified Laboratory NABL (ISO / IEC 17025:2017) Accredited & (A CONSTITUENT BOARD OF QUALITY COUNCIL OF INDIA)

0		TEST	REPORT		
	ble Ref No. :GEL/W/560/03		Report No.	:560/03	
	E OF INDUSTRY : TAMILNADU PET RESS Manali Express H Manali Chennai-6	Highway,	Report Date Page: 1 of 3	:05.04.2025	
Samp Custo	ble Description : Water ble Drawn By/ Date : GEL/20.02.2 omer's Reference : Letter Dated ble Mark : Test Bore W	on 20.02.2025	Received On Commenced On Completed On	:20.02.2025 :20.02.2025 :05.04.2025	
		IS 10500:2012			
SI. No	PARAMETERS	RESULTS	Acceptable Limits	Permissible Limits	TEST METHOD
1	Color (Hazen Unit)	10.0	5	15	APHA 24 th Edn :2023 2120 B
2	Odour	Disagreeable	Agreeable	Agreeable	IS 3025 P.5 1983 R.2012
3	pH value @ 25⁰C	6.94	6.5-8.5	No relaxation	APHA 24 th Edn :2023 4500 H [*] B
4	Dissolved Oxygen	5.80	NA	NA	IS 3025 P-38:1989
5	Turbidity (NTU)	12.0	1.0	5.0	IS 3025 (Part 10) : 1984
6	Total Dissolved Solids (mg/l)	1880	500	2000	IS 3025:P.16:1984:R.2012
7	Total Suspended Solids	98.0	- 1 <u>-</u> 1		IS:3025: P.17:1984:R.2012
В	Electrical Conductivity at 25°C	2650	NA	NA	IS 3025 P-14:2013
9	Aluminium as Al(mg/l)	BDL(DL: 0.1)	0.03	0.2	APHA 24 th Edn :2023 3500-AI E
10	Fluoride as F (mg/l)	0.35	1.0	1.5	APHA 24 th Edn :2023 4500-F D
11	BOD at 27°C for 3 days (mg/l)	3.0	NA	NA	IS: 3025 P. 44 1993 R. 2009
12	COD (mg/l)	28.0	NA	NA	APHA 24 th Edn :2023 5220 B
13	Sodium as Na (mg/l)	640	NA	NA	IS 3025 P-45 :1993
	24 	End	of Page 1		1
1	Addament Verified By	for GREENEX ENVIRO			Authorized By

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A.Kaviyarasi- Technical Manager

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		TEST RE	PORT – ADDITIC	ONAL SHEET	A			
Sam	ple Ref No. :GEL/W/560/03		Report No. :	560/03				
			Report Date :05.04.2025					
			Page :	2 of 4				
			IS 10500:2012					
SI.	PARAMETERS		Acceptable	Permissible	TEST METHOD			
No			Limits	Limits				
		RESULTS		*				
	Sulphates as SO ₄ (mg/l)	410	200	400	APHA 24 th Edn :2023 4500 SO ₄ E			
14								
	Temperature °C	27.0	NA	NA	IS 3025 P.09 1984			
15					Carl No. Company of Distance Attack of A			
16	Chlorides as Cl(mg/l)	780	250	1000	APHA 24 th Edn :202 4500 Cl ⁻ B			
17	Total Alkalinity as CaCO ₃ (mg/l)	435	200	600	APHA 24 th Edn :2023 2320B			
			e		Antonia foi de la anticipione internazione descatore della constructionale constructionale de la anticipione della de			
18	Total Hardness as CaCO ₃ (mg/l)	440	200	600	APHA 24 th Edn :2023 2340 C			
19	Free Residual Chlorine (mg/l)	<0.2						
			0.2	1.0	APHA 24 th Edn :2023 4500 CI B			
20	Total Iron as Fe(mg/l)	1.40	1.0	No	APHA 24 th Edn :2023 3500 Fe B			
			0.011-40.4750	Relaxation				
21	Magnesium as Mg (mg/l)	88.0	30.0	100	APHA 24 th Edn :2023 2340 C			
		00.0	00.0	100	ATTA 24 Edit .2020 2040 0			
	Calcium as Ca (mg/l)	328	75.0	150	APHA 24 th Edn :2023 3500 - Ca B			
22		520	75.0	100	AFTIA 24 EUII .2023 3300 - Ca B			
	Nitrate as NO ₃ (mg/l)	38.0	45.0	No	IS 3025 P.34 1988 R.2009			
23	riticate do 1403 (high)	50.0	40.0	Relaxation	13 3023 F.34 1900 R.2009			
20	Total Chromium as Cr(mg/l)	0.90	0.05		APHA 24 th Edn :2023 3500 Cr			
24	rotai chronium as çr(mg/l)-	0.90	.0.05	No	APHA 24 th Edn :2023 3500 Cr			
	=Below Detectable Limit DL= Dete			Relaxation				

Verified By

A.Kaviyarasi- Technical Manager

for GREENEX ENVIRO LABORATORY PVT LTD LABOR т Ш CHENNAI 600 043 Ŵ 3

End of Page 2

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RAMETERS inity ste rcury as Hg (mg/l) oper as Cu (mg/l) c as Zn (mg/l) al Arsenic as As (mg/l) nganese as Mn(mg/l)	RESULTS 2506 Agreeable (DL=0.001) 0.02 BDL (DL=0.01) BDL (DL=0.01)	5	: 3 of 4 500:2012 Permissible Limits NA Agreeable No Relaxation 1.5 15.0	TEST METHOD APHA 24 th Edn :2023 2520 B IS3025 P-8:1 984 APHA 24 th Edn :2023 3500-Hg APHA 24 th Edn :2023 3500-Cu B APHA 24 th Edn :2023 3500-Zn B
inity ste rcury as Hg (mg/l) oper as Cu (mg/l) c as Zn (mg/l) al Arsenic as As (mg/l)	2506 Agreeable (DL=0.001) 0.02 BDL (DL=0.01) BDL (DL=0.01)	IS 105 Acceptable Limits NA Agreeable 0.001 0.05 5.0	500:2012 Permissible Limits NA Agreeable No Relaxation 1.5 15.0	APHA 24 th Edn :2023 2520 B IS3025 P-8:1 984 APHA 24 th Edn :2023 3500-Hg APHA 24 th Edn :2023 3500-Cu B
inity ste rcury as Hg (mg/l) oper as Cu (mg/l) c as Zn (mg/l) al Arsenic as As (mg/l)	2506 Agreeable (DL=0.001) 0.02 BDL (DL=0.01) BDL (DL=0.01)	Acceptable Limits NA Agreeable 0.001 0.05 5.0	Permissible Limits NA Agreeable No Relaxation 1.5 15.0	APHA 24 th Edn :2023 2520 B IS3025 P-8:1 984 APHA 24 th Edn :2023 3500-Hg APHA 24 th Edn :2023 3500-Cu B
inity ste rcury as Hg (mg/l) oper as Cu (mg/l) c as Zn (mg/l) al Arsenic as As (mg/l)	2506 Agreeable (DL=0.001) 0.02 BDL (DL=0.01) BDL (DL=0.01)	Limits NA Agreeable 0.001 0.05 5.0	Limits NA Agreeable No Relaxation 1.5 15.0	APHA 24 th Edn :2023 2520 B IS3025 P-8:1 984 APHA 24 th Edn :2023 3500-Hg APHA 24 th Edn :2023 3500-Cu B
ste rcury as Hg (mg/l) oper as Cu (mg/l) c as Zn (mg/l) al Arsenic as As (mg/l)	Agreeable BDL (DL=0.001) 0.02 BDL (DL=0.01) BDL (DL=0.01)	Agreeable 0.001 0.05 5.0	Agreeable No Relaxation 1.5 15.0	IS3025 P-8:1 984 APHA 24 th Edn :2023 3500-Hg APHA 24 th Edn :2023 3500-Cu B
rcury as Hg (mg/l) oper as Cu (mg/l) c as Zn (mg/l) al Arsenic as As (mg/l)	BDL (DL=0.001) 0.02 BDL (DL=0.01) BDL (DL=0.01)	0.001	No Relaxation 1.5 15.0	APHA 24 th Edn :2023 3500-Hg APHA 24 th Edn :2023 3500-Cu B
oper as Cu (mg/l) c as Zn (mg/l) al Arsenic as As (mg/l)	(DL=0.001) 0.02 BDL (DL=0.01) BDL (DL=0.01)	0.05	Relaxation 1.5 15.0	APHA 24 th Edn :2023 3500-Cu B
c as Zn (mg/l) al Arsenic as As (mg/l)	BDL (DL=0.01) BDL (DL=0.01)	5.0	1.5 15.0	
al Arsenic as As (mg/l)	BDL (DL=0.01)			APHA 24 th Edn :2023 3500-Zn B
	(DL=0.01)	0.01		
nganese as Mn(mg/l)			No Relaxation	APHA 24 th Edn :2023 3500-As
	BDL(DL : 0.01)	0.1 0.30 A		APHA 24 th Edn :2023 3500-Mn B
ad as Pb (mg/l)	BDL (DL=0.005)	0.01 No Relaxation		APHA 24 th Edn :2023 3500 Pb B
ver as Ag(mg/l)	BDL (DL=0.01)	0.01 No Relaxation		APHA 24 th Edn :2023 3500 Ag
dmium as Cd (mg/l)	BDL (DL=0.001)	0.003	No Relaxation	APHA 24 th Edn :2023 3500-Cd
	MICROBIOLOG	GICAL EXAMI	NATION	
RAMETERS	RESULTS	IS 10500: 20	012 Second revis	ion TEST METHOD
al Coliforms (MPN / 100ml)	Absent	Shall no	t be detectable in	IS:1622-1981 Amd.4 RA 2012
oli (MPN / 100ml)	Absent	Shall no	ot be detectable in	IS:1622-1981 Amd.4 RA 2012
		l of Page 3		· · · ·
fied By	GREENEX ENVIR	CHENNAI 600 043	DV DV	Authorized By Periaswami – Head of the Laboratory
	al Coliforms (MPN / 100ml) bli (MPN / 100ml) for for fied By i- Technical Manager	RAMETERS RESULTS al Coliforms (MPN / 100ml) Absent bli (MPN / 100ml) Absent Cence for GREENEX ENVIR fied By i- Technical Manager	RAMETERS RESULTS RESULTS IS 10500: 2 (Acc al Coliforms (MPN / 100ml) Absent Shall no bli (MPN / 100ml) Absent Shall no End of Page 3 for GREENEX ENVIRO LABORATO ABOR fied By i- Technical Manager	MICROBIOLOGICAL EXAMINATION RAMETERS RESULTS Requirement as per al Coliforms (MPN / 100ml) Absent Shall not be detectable in al Coliforms (MPN / 100ml) Absent Shall not be detectable in bil (MPN / 100ml) Absent Shall not be detectable in anv100 ml By End of Page 3 fied By GREENEX ENVIRO ABOR i- Technical Manager K P

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Samp	le Ref No. :GEL/W/561/03		Report No.	:561/03			
	E OF INDUSTRY : TAMILNADU PETRO RESS Manali Express Hig Manali Chennai-600	hway,	Report Date :05.04.2025 Page: 1 of 3				
Samp Custo	le Description : Water le Drawn By/ Date : GEL/20.02.202 mer's Reference : Letter Dated or le Mark : Test Bore Wat	20.02.2025	Received On Commenced Completed Or		5		
SI. No	PARAMETERS	RESULTS	IS 105 Acceptable Limits	00:2012 Permissible Limits	TEST METHOD		
	Color (Hazen Unit)	5.0	5	15	APHA 24 th Edn :2023 2120 B		
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 P.5 1983 R.2012		
3	pH value @ 25°C	7.52	6.5-8.5	No relaxation	APHA 24 th Edn :2023 4500 H ⁺ E		
4	Dissolved Oxygen	6.90	NA	NA	IS 3025 P-38:1989		
5	Turbidity (NTU)	1.0	1.0	5.0	IS 3025 (Part 10) : 1984		
6	Total Dissolved Solids (mg/l)	940	500	2000	IS 3025:P.16:1984:R.2012		
7	Total Suspended Solids	2.0	-	-	IS:3025: P.17:1984:R.2012		
3	Electrical Conductivity at 25°C	1603	NA	NA	IS 3025 P-14:2013		
9	Aluminium as Al(mg/l)	BDL (DL=0.01)	0.03	0.2	APHA 24 th Edn :2023 3500-AI B		
10	Fluoride as F (mg/l)	0.80	1.0	1.5	APHA 24 th Edn :2023 4500-F D		
11	BOD at 27°C for 3 days (mg/l)	BDL(DL : 2.0)	NA	NA	IS: 3025 P. 44 1993 R. 2009		
12	COD (mg/l)	NIL	NA	NA	APHA 24 th Edn :2023 5220 B		
13	Sodium as Na (mg/l)	120	NA	NA	IS 3025 P-45 :1993		
		End for GREENEX ENVIR	of Page 1				

Verified By A.Kaviyarasi- Technical Manager

L CHENNAL Ĩ 600 043

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-		TEST RE	PORT - ADDITIC				
Sam	ple Ref No. :GEL/W/561/03		Report No. :				
			Report Date :05.04.2025				
			Page :	2 of 4			
SI.	PARAMETERS		IS 10	500:2012			
No		RESULTS	Acceptable Limits	Permissible Limits	TEST METHOD		
14	Sulphates as SO₄(mg/l)	89.0	200	400	APHA 24 th Edn :2023 4500 SO ₄ E		
15	Temperature °C	27.0	NA	NA	IS 3025 P.09 1984		
16	Chlorides as Cl(mg/l)	310	250	1000	APHA 24 th Edn :202 4500 Cl ⁻ B		
17	Total Alkalinity as CaCO ₃ (mg/l)	290	200	600	APHA 24 th Edn :2023 2320B		
18	Total Hardness as CaCO ₃ (mg/l)	300	200	600	APHA 24 th Edn :2023 2340 C		
19	Free Residual Chlorine (mg/l)	<0.2					
			0.2	1.0	APHA 24 th Edn :2023 4500 CI B		
20	Total Iron as Fe(mg/I)	0.01	1.0	No Relaxation	APHA 24 th Edn :2023 3500 Fe B		
21	Magnesium as Mg (mg/l)	29.0	30.0	100	APHA 24 th Edn :2023 2340 C		
22	Calcium as Ca (mg/l)	68.0	75.0	150	APHA 24 th Edn :2023 3500 - Ca B		
23	Nitrate as NO ₃ (mg/l)	BDL (DL=0.1)	45.0	No Relaxation	IS 3025 P.34 1988 R.2009		
24	Total Chromium as @r(mg/l)	BDL (DL=0.01)	0.05	No Relaxation	APHA 24 th Edn :2023 3500 Cr		

Verified By A.Kaviyarasi- Technical Manager

End of Page 2 for GREENEX ENVIRO LABORATORY PVT LTD CHENNAL Ш 600 043

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Samp	le Ref No. :GEL/W/561/03		Report No. :5	561/03	
			Report Date :0)5.04.2025	
			Page :	3 of 4	
			IS 1050	00:2012	TEST METHOD
SI.	PARAMETERS	RESULTS			
lo			Acceptable Limits	Permissible Limits	r.
	Salinity	511	NA	NA	APHA 24 th Edn :2023 2520 B
25					
	Taste	Agreeable	Agreeable	Agreeable	IS3025 P-8:1 984
26		5	Ū		
	Mercury as Hg (mg/l)	BDL	0.001	No	APHA 24 th Edn :2023 3500-Hg
27	Mercury as Hg (High)	(DL=0.001)	0.001	Relaxation	7. 17. 21 Edn. 2020 0000 1.g
27	Copper as Cu (mg/l)	0.02	0.05	1.5	APHA 24 th Edn :2023 3500-Cu B
28	Copper as Cu (mg/)	0.02	0.00	1.0	,
-0	Zinc as Zn (mg/l)	BDL (DL=0.01)	5.0	15.0	APHA 24 th Edn :2023 3500-Zn B
29	, , , , ,				ib
	Total Arsenic as As (mg/l)	, · BDL	0.01	No	APHA 24 th Edn :2023 3500-As
30		(DL=0.01)		Relaxation	16
31	Manganese as Mn(mg/l)	BDL(DL : 0.01)	0.1	0.30	APHA 24 th Edn :2023 3500-Mn B
32	Lead as Pb (mg/l)	BDL	0.01	No	APHA 24 th Edn :2023 3500 Pb B
		(DL=0.005)		Relaxation	
33	Silver as Ag(mg/l)	BDL	0.01	No	APHA 24 th Edn :2023 3500 Ag
		(DL=0.01)		Relaxation	ils.
34	Cadmium as Cd (mg/l)	BDL (DL=0.001)	0.003	No	APHA 24 th Edn :2023 3500-Cd
				Relaxation	
	.,k	MICROBIOLOG	GICAL EXAMIN		
				ement as per	
SI.	PARAMETERS	RESULTS	IS 10500: 20	12 Second revision	on TEST METHOD
No				ptable Limit)	
35	Total Coliforms (MPN / 100ml)	Absent		be detectable in	IS:1622-1981 Amd.4 RA 2012
		e	a	ny100 ml	
0.0		Absent	Shall not	be detectable in	IS:1622-1981 Amd.4 RA 2012
36	E.coli (MPN / 100ml)	Absent			15.1022-1301 And.4 NA 2012
	s		a	ny100 ml	
		Enc	of Page 3		2 A
		for GREENEX ENVIR	OLABORATO	RY PVT.LTD	^
1	A. Kongel	XENL	RO LABOR TO RY		PAUthorized By
A Ka	viyarasi- Technical Manager	(19)	600 043 5	KP	Periaswami – Head of the Laboratory
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Approval of the laboratory

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3. Unless informed by the customer the test items will not be retained for more than 10 days





GREENEX ENVIRO LABORATORY PVT LTD

ISO 9001:2015 Certified Laboratory NABL (ISO / IEC 17025:2017) Accredited & (A CONSTITUENT BOARD OF QUALITY COUNCIL OF INDIA)

Samp	le Ref No. :GEL/W/562/03		Report No.	:562/03			
	E OF INDUSTRY : TAMILNADU PETRO RESS Manali Express Hig Manali Chennai-600	hway,	Report Date :05.04.2025 Page: 1 of 3 :20.02.2025 Commenced On :20.02.2025 Completed On :05.04.2025				
Samp Custo	le Description : Water le Drawn By/ Date : GEL/20.02.202 mer's Reference : Letter Dated or le Mark : Test Bore Wa	20.02.2025					
			IS 105	500:2012			
SI. No	PARAMETERS	RESULTS	Acceptable Limits	Permissible Limits	TEST METHOD		
1	Color (Hazen Unit)	<1.0	5	15	APHA 24 th Edn :2023 2120 B		
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025 P.5 1983 R.2012		
3	pH value @ 25°C	7.10	6.5-8.5	No relaxation	APHA 24 th Edn :2023 4500 H ⁺ B		
4	Dissolved Oxygen	8.50	NA	NA	IS 3025 P-38:1989		
5	Turbidity (NTU)	<1.0	1.0	5.0	IS 3025 (Part 10) : 1984		
6	Total Dissolved Solids (mg/l)	40.0	500	2000	IS 3025:P.16:1984:R.2012		
7	Total Suspended Solids	<1.0	_	_	IS:3025: P.17:1984:R.2012		
8	Electrical Conductivity at 25°C -	80.0	NA	NA	IS 3025 P-14:2013		
9	Aluminium as AI(mg/I)	BDL(DL=0.01)	0.03	0.2	APHA 24 th Edn :2023 3500-AI B		
10	Fluoride as F (mg/l)	BDL(DL=0.1)	1.0	1.5	APHA 24 th Edn :2023 4500-F D		
11	BOD at 27 ^o C for 3 days (mg/l)	BDL(DL=2.0)	NA	NA	IS: 3025 P. 44 1993 R. 2009		
12	COD (mg/l)	BDL(DL=1.0)	NA	NA	APHA 24 th Edn :2023 5220 B		
13	Sodium as Na (mg/l)	2.0	NA	NA	IS 3025 P-45 :1993		
	5.		of Page 1		2		
	AUD	for GREENEX ENVIR	O LABORATOR	Y PVT, LTD	Del -		

Verified By

A.Kaviyarasi- Technical Manager

NOTE:

CACI 600 043

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K P Periaswami - Head of the Laboratory

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oum	ple Ref No. :GEL/W/562/03		Report No. :562/03 Report Date :05.04.2025				
			(2) A set of the se	2 of 4			
SI.	PARAMETERS		IS 10	500:2012	in a star of the star way whereas the		
No	FARAMETERS	RESULTS	Acceptable Limits	Permissible Limits	TEST METHOD		
14	Sulphates as SO ₄ (mg/l)	4.0	200	400	APHA 24 th Edn :2023 4500 SO₄ E		
15	Temperature °C	27.0	NA	NA	IS 3025 P.09 1984		
16	Chlorides as Cl(mg/l)	13.0	250	1000	APHA 24 th Edn :202 4500 Cl ⁻ B		
17	Total Alkalinity as CaCO ₃ (mg/l)	11.0	200	600	APHA 24 th Edn :2023 2320B		
18	Total Hardness as CaCO ₃ (mg/l)	10.0	200	600	APHA 24 th Edn :2023 2340 C		
19	Free Residual Chlorine (mg/l)	BDL (DL=0.1)	0.2	1.0	APHA 24 th Edn :2023 4500 CI B		
20	Total Iron as Fe(mg/l)	BDL (DL=0.01)	1.0	No Relaxation	APHA 24 th Edn :2023 3500 Fe B		
21	Magnesium as Mg (mg/l)	0.96	30.0	100	APHA 24 th Edn :2023 2340 C		
22	Calcium as Ca (mg/l)	2.40	75.0	150	APHA 24 th Edn :2023 3500 - Ca B		
23	Nitrate as NO ₃ (mg/l)	BDL (DL=0.1)	45.0	No Relaxation	IS 3025 P.34 1988 R.2009		
24	Total Chromium as Cr(mg/l) -	BDL (DL=0.01)	0.05	No Relaxation	APHA 24 th Edn :2023 3500 Cr		
BDL	=Below Detectable Limit		1				

Verified By A.Kaviyarasi- Technical Manager

CHENNA σ 600 043

for GREENEX ENVIRO LABORATORY PVT LTD

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Samp	ole Ref No. :GEL/W/562/03		Report No. :	562/03	
			Report Date :	05.04.2025	
				3 of 4	
				00:2012	TEST METHOD
SI.	PARAMETERS	RESULTS			i Eor merriod
No			Acceptable	Permissible	
			Limits	Limits	
	Salinity	21.0	NA	NA	APHA 24 th Edn :2023 2520 B
25		L etiter Azis Conte	Durbes (c.m.)		111124 Edit.2020 2020 D
-	Taste	Agreeable	Agreeable	Agreeable	IS3025 P-8:1 984
26					
	Mercury as Hg (mg/l)	BDL	0.001	No	APHA 24 th Edn :2023 3500-Hg
27		(DL=0.001)		Relaxation	2.2.1.2.1.2.1.2.2.0 0000-rig
	Copper as Cu (mg/l)	BDL(DL=0.01)	0.05	1.5	APHA 24 th Edn :2023 3500-Cu B
28					
20	Zinc as Zn (mg/l)	BDL (DL=0.01)	5.0	15.0	APHA 24 th Edn :2023 3500-Zn B
29	Total Arsenic as As (mg/l)	BDL	0.01	Nia	
30	rotal Albertic as As (mg/l)	(DL=0.01)	0.01	No	APHA 24 th Edn :2023 3500-As
31	Manganese as Mn(mg/l)	BDL(DL : 0.01)	0.1	Relaxation 0.30	APHA 24 th Edn :2023 3500-Mn B
		552(52.0.01)	0.1	0.50	AFRA 24 EUN 2023 3500-MN B
32	Lead as Pb (mg/l)	BDL	0.01	No	APHA 24 th Edn :2023 3500 Pb E
20		(DL=0.005)		Relaxation	- / /
33	Silver as Ag(mg/l)	BDL	0.01	No	APHA 24 th Edn :2023 3500 Ag
34	Cadmium as Cd (mg/l)	(DL=0.01)	0.000	Relaxation	
04		BDL (DL=0.001)	0.003	No	APHA 24 th Edn :2023 3500-Cd
		MICROBIOLOG	CAL EXAMINA	Relaxation	
				ement as per	
SI.	PARAMETERS	RESULTS		2 Second revisi	OD TEST METHOD
No		RECOLIC		table Limit)	on TEST METHOD
35	Total Coliforms (MPN / 100ml)	Absent	Shall not	be detectable in	IS:1622-1981 Amd.4 RA 2012
				y100 ml	10.1022-1001 AIII0.4 RA 2012
26					194
36	E.coli (MPN / 100ml)	Absent		be detectable in	IS:1622-1981 Amd.4 RA 2012
				y100 ml	
	20	End	of Page 3		l
	l f	or GREENEX ENVIR	and when the state of the state	YPVTLTD	
7	A.Land	CHINA CH	HENNAL RY PL		Pr V-
1	Verified By	HIZ 6	100 000 151		Authorized By
A.Kav	iyarasi- Technical Manager	18 BER	010	KPI	Periaswami – Head of the Laborator
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Samp	ble Ref No. :GEL/W/563/03			Report No.	:563/03
	RESS Mana	LNADU PETROP ali Express Highway ali, Chennai - 600	Report Date Page: 1 of 5	: 05.04.2025	
Sample Description :Effluent Water Sample Drawn By /Date :GEL/20.02.2025 Customer's Reference :Letter dated on 20.02.2025 Sample Mark :STP- Inlet				Received On Commenced On Completed On	: 20.02.2025 : 20.02.2025 : 05.04.2025
SI. No	PARAMETERS	Unit	RESULTS		TEST METHOD
	pline: Chemical				
	cides				
1	Alachior	mg/l	BDL_ (DL:0.0001)		SOP/GEL/ 012/2024
2	Aldrin	mg/l	BDL (DL:0.0001)	<u> </u>	SOP/GEL/ 012/2024
3	Alpha BHC	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
4	Atrazine	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
5	Beta BHC	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
6	Butachlor	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
7	Chloropyrifos	_ mg/l	BDL (DL:0.0001)	CI HIC	SOP/GEL/ 012/2024
8	Delta BHC	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
9	Dieldrin	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
10	Deltamethrin	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
11	Endosulfan alpha	mg/l	BDL (DL:0.0001)		SOP/GEL/ 012/2024
12	Endosulfan Beta	mg/l	BDL (DL:0.0001)	. *	SOP/GEL/ 012/2024
			End of Page 1		

Verified By A.Kaviyarasi- Technical Manager

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Authorized By K P Periaswami - Head of the Laboratory

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Sample Ref No: GEL/W/563/03 Report No :563/03 Report Date:05.04.2 Page of 2 of 5 SI. TEST METHOD	2025
No PARAMETERS Unit RESULTS	
13 Endosulfan Sulfate mg/l BDL SOP/GEL/ 012/2024 (DL:0.0001)	4
14 Ethion mg/l BDL SOP/GEL/ 012/2024 (DL:0.0001)	4
15 Gamma BHC mg/l BDL (DL:0.0001) SOP/GEL/ 012/2024	4
16 Malathion mg/l BDL SOP/GEL/ 012/2024 (DL:0.0001)	4
17 o,p'-DDD mg/l BDL SOP/GEL/ 012/202- (DL:0.0001)	4
18 o,p'-DDE mg/l BDL SOP/GEL/ 012/202 (DL:0.0001)	4
19 o,p'-DDT mg/l BDL SOP/GEL/ 012/202	4
20 p,p'-DDD mg/l BDL SOP/GEL/ 012/2024 (DL:0.0001)	4
21 p,p'-DDE mg/l BDL SOP/GEL/ 012/202 (DL:0.0001)	4
22 p,p'-DDT mg/l BDL SOP/GEL/ 012/202 (DL:0.0001)	4
23 Parathion-methyl mg/l BDL SOP/GEL/ 012/202 (DL:0.0001)	4 10
24 Phorate mg/l BDL SOP/GEL/ 012/202 (DL:0.0001)	4
for GREENEX ENVIRO DABORATORY PVT LTD	

A Kon A

A.Kaviyarasi- Technical Manager

CHENNAI 600 043

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		TES	ST REPORT-ADDITIO	NAL SHEET		
Samp	le Ref No: GEL/W/563/03			Report No :563/03 Report Date:05.04.2025 Page of 3 of 5		
SI.				TEST METHOD		
No	PARAMETERS	Unit	RESULTS			
25	2,4-D	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024		
26	Isoproturon	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024		
27	Malaoxon	mg/l	BDL (DL:0.0001) -	SOP/GEL/ 012/2024		
28	Methyl Paraoxon	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024		
29	Methyl Parathion	mg/l	·BDL (DL:0.0001)	SOP/GEL/ 012/2024		
30	Monocrotophos	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024		
31	Phorate Sulfone	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024		
32	Phorate Sulfoxide	mg/l	BDL (DL:0.0001)	SOP/GEL/ 012/2024		
33	Arsenic	mg/l	BDL (DL:0.005)	USEPA 200.8 Revision 5.4:1994		
34	Cadmium	mg/l	BDL (DL:0.01)	USEPA 200.8 Revision 5.4:1994		
35	Chromium	mg/l	BDL (DL:0.0001)	USEPA 200.8 Revision 5.4:1994		
36	Copper	mg/l	BDL (DL:0.01)	USEPA 200.8 Revision 5.4:1994		
			End of Rage	3		
A.Ka	Addate By Verified By viyarasi- Technical Manager	for GRE	ENEX ENVIRO LABO	Authorized By		

A.Kaviyarasi- Technical Manager

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		TES	T REPORT-ADDITIO	NAL SHEET
Samp	ble Ref No: GEL/W/563/03		Report No :563/03 Report Date:05.04.2025 Page of 4 of 5	
SI. No	PARAMETERS	Unit	RESULTS	TEST METHOD
37	Nickel	mg/l	BDL (DL:0. 1)	USEPA 200.8 Revision 5.4:1994
38	Selenium	mg/l	BDL (DL:0.005)	USEPA 200.8 Revision 5.4:1994
39	Zinc	mg/l	BDL (DL:0.1)	USEPA 200.8 Revision 5.4:1994
10	Ammonia as NH3	mg/l	1.50	IS:3025 P.34 1988 R.2009
1	Ammonical Nitrogen as NH3-N	mg/l	58.0	IS:3025 P.34 1988 R.2009
42.	Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C	mg/l	285	IS: 3025 P. 44 1993 R. 2009
43	Boron as B	mg/l	BDL. (DL:0.1))	IS: 3025 P. 57 2021
14	Sodium as Na	mg/l	180	IS 3025 P.45 1993
15	Chemical Oxygen Demand(COD)	mg/l	290	IS 3025 P.58, 2006
16	Chloride as Cl	mg/l	490	IS 3025 P.32. 1988
7	Cyanide as CN	mg/l	BDL (DL:0.01)	IS 3025 P.27. 1986
18	Fluorides as F	mg/l	1.40	APHA 24 th Edn :2023 4500 D F
			End of Page 4	

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		TEST	T REPORT-ADDITIO	NAL SHEET
-	ble Ref No: GEL/W/563/03			Report No :563/03 Report Date:05.04.2025 Page of 5 of 5
SI. No	PARAMETERS	Unit	RESULTS	TEST METHOD
49	Free Residual Chlorine	mg/l	BDL (DL:0.0001)	IS 3025 P.26 2021
50	Hexavalent Chromium as Cr6+	mg/l	BDL (DL:0.005)	IS 3025 P.52 2003
51	Oil and grease	mg/l	20.0	IS 3025 P.39 2021
52	pH value @25℃	mg/l	7.06	IS:3025: P.11:2022
53	Phenolic Compound	mg/l	BDL(DL:0.01)	IS 3025:P.43:1992
54	Dissolved Phosphate as P	mg/l	1.20	APHA 24 th Edn :2023 4500 P-B,D
55	Residual Sodium Carbonate	mEq/L	Nil	IS: 11624 1986
56	Sulphate as SO4	mg/l	135	IS 3025 P.24 1986
57	Sulphide as S2	mg/l	1.80	IS 3025 P.29 1986
58	Temperature	°C	27.0	IS 3025 P.09 1984
59	Total dissolved solids @ 180°C	mg/l	1530	IS 3025 P.16 1984
60	Total Kjeldahl Nitrogen as N	mg/l	. 390 -	IS:3025 P.34 1988 R.2009
61	Total suspended Solids @105°C	mg/l	160	IS 3025 P.17 1984
	3		End of Page 5	
f	Varified By	for GREEN	EX ENVIROLABOR CHENNAL 600 043	

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Samp	le Ref No. :GEL/W/563/	/03		Report No. :563	/03		
ADD	RESS N	AMILNADU PETROP Manali Express Híghwa Manali, Chennai - 600 0	Report Date : 05. Page: 1 of 5	04.2025			
Sample Description:Effluent WaterSample Drawn By /Date:GEL/20.02.2025Customer's Reference:Letter dated on 20.02.2025Sample Mark: STP - Inlet			2025	Received On : 20.02.2025 Commenced On : 20.02.2025 Completed On : 05.04.2025			
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits fo Treated Outlet as p TNPCB			
	pline: Chemical				5		
Pesti 1	Alphamethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024		
2	Cypermethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024		
3	Deltamethrin	mg/l	BDL . (DL:0.0001)	Absent	SOP/GEL/ 012/2024		
4	Permethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024		
5	Mercury	mg/l	BDL (DL:0.01)	0.01	USEPA 200.08 REV 1994		
5	Lead	mg/l	BDL (DL:0.1)	0.1	USEPA 200.08 REV 1994		
7	Alpha Emitters	Microcurie/ ml	BDL (DL:0.000000001)	0.0000001	IS 14194(Part 2) 1994		
3	Beta Emitters	Microcurie/	BDL (DL:0.00000001)	0.0000001	IS 14194(Part 1) 1994		
	N	for CREE	End of Page 1 NEX ENVIRO LABOR				
A	Verified By		CHENNA 600 04	U ORY	DY Authorized B		



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			TEST REPOR		
Samp	ble Ref No. :GEL/W/564/03			Report No. :564/03	
	RESS Mar	ILNADU PETROP ali Express Highway ali, Chennai - 600 00	Report Date : 05.04.202 Page: 1 of 5	5	
Samp Custo	ble Description :Effli ble Drawn By /Date :GE omer's Reference :Let	uent Water L/20.02.2025 ter dated on 20.02.2 P- Outlet	Received On : 20.02.2025 Commenced On : 20.02.2025 Completed On : 05.04.2025		
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
	pline: Chemical	I		II	
Pesti	cides				
1	Alachlor	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
2	Aldrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
3	Alpha BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
4	Atrazine	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
5	Beta BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
6	Butachlor	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
7	Chloropyrifos	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
8	Delta BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
9	Dieldrin	mg/l	BDL_ (DL:0.0001)	Absent	SOP/GEL/ 012/2024
10	Deltamethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
11	Endosulfan alpha	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
12	Endosulfan Beta	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024

End of Page 1

Verified By

for GREENEX ENVIRO LABORATORY PVT LTD RY CHENNAL 0 600 043

Authorized By K P Periaswami – Head of the Laboratory

A.Kaviyarasi- Technical Manager

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		TE	ST REPORT-ADDITIO	ONAL SHEET	
	ble Ref No: GEL/W/564/03		Report No :564/03 Report Date:05.04.2025 Page of 2 of 5		
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
13	Endosulfan Sulfate	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
14	Ethion	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
15	Gamma BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
16	Malathion	mg/ŀ	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
17	o,p'-DDD	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
18	o,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
19	o,p'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
20	p,p'-DDD	- mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
21	p,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
22	p,p'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
23	Parathion-methyl	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
24	Phorate	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
		(BOARD	
A.Kav	Verified By viyarasi- Technical Manager	for GRE	CHEN 600 0	INAI 043 ORY PUT	Authorized By swami – Head of the Laboratory

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Sample Ref No: (GEL/W/564/03		EST REPORT-ADDITI	Report No :564/03 Report Date:05.04.2025 Page of 3 of 5	
No PARAME	TERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
25 2,4-D		mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
26 Isoproturo	'n	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
27 Malaoxon		mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
28 Methyl Par		mg/l	. BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
29 Methyl Par		mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
30 Monocroto		mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
1 Phorate Su		mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
2 Phorate Su 3 Arsenic	llfoxide	mg/l	BDL (DL:0.0001)	Absent	SOP/GEL/ 012/2024
		mg/l	BDL (DL:0.005)	Absent	USEPA 200.8
Guannan		mg/l	BDL (DL:0.01)	Absent	Revision 5.4:1994 USEPA 200.8
	8	mg/l	BDL (DL:0.0001)	Absent	Revision 5.4:1994 USEPA 200.8
6 Copper		mg/l	BDL (DL:0.01)	Absent	Révision 5.4:1994 USEPA 200.8
a t		for GREEN	End of Page 3	AVORY PVT LTD	Revision 5.4:1994
A Kon Vertified By	ical Manager	ι.	CHENNAI 600 043	P	Authorized By ami – Head of the Laborator

3. Unless informed by the customer the test items will not be retained for more than 10 days

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Sample Ref No: GEL/W/564/03				Report No :564/03 Report Date:05.04.2025 Page of 4 of 5		
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD	
37	Nickel	mg/l	BDL (DL:0. 1)	Absent	USEPA 200.8 Revision 5.4:1994	
38	Selenium	mg/l	BDL (DL:0.005)	Absent	USEPA 200.8 Revision 5.4:1994	
39	Zinc	mg/l	BDL (DL:0.1)	Absent	USEPA 200.8 Revision 5.4:1994	
40	Ammonia as NH3	mg/l	0.50	A	IS:3025 P.34 1988 R.2009	
41	Ammonical Nitrogen as NH3-N	mg/l	8.0		IS:3025 P.34 1988 R.2009	
42	Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C	mg/l	2.0	20	IS: 3025 P. 44 1993 R. 2009	
43	Boron as B	mg/l	BDL (DL:0.1))		IS: 3025 P. 57 2021	
44	Calcium as ca 😽 🗧	mg/l	36.0		IS 3025 P.40 1991	
45	Chemical Oxygen Demand(COD)	mg/l	20.0	50	IS 3025 P.58. 2006	
46	Chloride as Cl	mg/l	485	-	IS 3025 P.32. 1988	
47	Cyanide as CN	mg/l	BDL (DL:0.01)	0.2	IS 3025 P.27. 1986	
48	Fluorides as F	mg/l	1.20	2.0	APHA 24 th Edn :2023 4500 D F	
		for GREEN	End of Page	RATORY PVT LTD	0.0	
AKa	Verified By verified The Manager	y R	CHENI 6000	43 P	Authorized By wami – Head of the Laboratory	

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Authorized By

K P Periaswami

lead of the Laboratory

ISO 9001:2015 Certified Laboratory

Sampl	e Ref No: GEL/W/564/03		Report No :564/03 Report Date:05.04.2025			
				Page of 5 of 5		
SI. No	The second s		RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD	
49	Free Residual Chlorine	mg/l	BDL (DL:0.2)	-	IS 3025 P.26 2021	
50	Hexavalent Chromium as Cr6+	mg/l	BDL (DL:0.0001)	-	IS 3025 P.52 2003	
51	Oil and grease	mg/l	BDL(DL : 1.0)	10	IS 3025 P.39 2021	
52	pH value @25°C	mg/l	7.87	6.50 to 8.50	IS:3025: P.11:2022	
53	Phenolic Compound	mg/l	BDL(DL :0.01)	1.0	IS 3025:P.43:1992	
54	Dissolved Phosphate as P	mg/l	Nil	-	APHA 24 th Edn :2023 4500 P-B,D	
55	Residual Sodium Carbonate	mEq/L	Nil	NA	IS: 11624 1986	
56	Sulphate as SO4	mg/l	124		IS 3025 P.24 1986	
57	Sulphide as S2	mg/l	Nil		IS 3025 P.29 1986	
58	Temperature	°C	27.0	40° C at the point of discharge	IS 3025 P.09 1984	
59	Total dissolved solids @ 180°C	mg/l	1520		IS 3025 P.16 1984	
60	Total Kjeldahl Nitrogen as N	mg/l	24.0	prationy	IS:3025 P.34 1988 R.2009	
61	Total suspended Solids @105°C	mg/l	4.0	30	IS 3025 P.17 1984	
End o	of Page 5	.1	ENEX ENVIROLABO	BOD	2	

erified By

A.Kaviyarasi- Technical Manager

NOTE: 1. Test results shown in this test report relate only to the items tested.,

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-		504/00		TEST REPORT	Report No.	:564/03	
Sample Ref No. :GEL/W/564/03					a seat		
CUSTOMER NAME : TAMILNADU PETROPH ADDRESS Manali Express Highway Manali, Chennai - 600 06			у,	Report Date Page: 1 of 5	: 05.04.202	25	
Sample Description :Effluent Water Sample Drawn By /Date :GEL/20.02.2025 Customer's Reference :Letter dated on 20.02.2025 Sample Mark : STP - Outlet					Received On : 20.02.2025 Commenced On : 20.02.2025 Completed On : 05.04.2025		
SI. No	PARAMETERS		Unit	RESULTS	Tolerance limits Treated Outlet a TNPCB		TEST METHOD
Disci	pline: Chemical						
Pesti	cides				1		
1	Alphamethrin		mg/l	BDL (DL:0.0001)	Absent		SOP/GEL/ 012/2024
2	Cypermethrin		mg/l	BDL (DL:0.0001)	Absent		SOP/GEL/ 012/2024
3	Deltamethrin		mg/l	BDL (DL:0.0001)	Absent		SOP/GEL/ 012/2024
4	Permethrin		mg/l	BDL (DL:0.0001)	Absent	8 -	SOP/GEL/ 012/2024
5	Mercury		mg/l	BDL (DL:0.01)	0.01		USEPA 200.08 REV 1994
6	Lead		mg/l	BDL (DL:0.1)	0.1		USEPA 200.08 REV 1994
7	Alpha Emitters		Microcurie/ ml	BDL (DL:0.000000001)	0.0000001) nV	IS 14194(Part 2) 1994
8	Beta Emitters		Microcurie/ ml	BDL (DL:0.00000001)	0.0000001		IS 14194(Part 1) 195∔
	10 10 10 10 10 10			End of Page			
l	Verified By viyarasi- Technical M	J	for GREE	ENEX ENVIRO LABOR CHENNAI 600 043	101	P	Authorized By vami – Head of the Laborator

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Environmental Clearance – News paper Advertisement

STREET ST 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



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.























