

Ref: TPL - LAB/ 2024/EC Comp/10

13th Nov- 2024

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

Dear Sir,

Sub: TPL – LAB Plant – Environmental Clearance (EC) – Six Monthly Compliance

Report - April 2024 to Sep 2024 - reg.

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

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

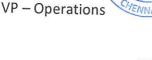
We herewith attach the EC compliance status report for the period from April-2024 to Sep-2024 for your kind reference.

Thanking you,

Yours faithfully, For Tamilnadu Petroproducts Limited

ROPRO

N.Murugan

















Regd. Office & Factory :
Post Box No. 9, Manali Express Highway, Manali,
Chennai - 600 068. India.

TPL GSTIN: 33AAACT1295M1Z6

Environmental Clearance Compliance Status Report For the period from Apr 2024 to Sep 2024

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

(A) Specific Condition

S.No	Condition	Compliance
1	EC will be subject to the decision of Hon'ble	Shall be complied.
	NGT (SZ). The project proponent shall	
	abide by all orders and judicial	
	pronouncements made from time to time	
	in the case filed in Hon'ble NGT.	
2	The company shall comply with all the	Complied
	environmental protection measures and	All the environmental protection measures
	safeguards proposed in the documents	and safeguards proposed in the documents
	submitted to the Ministry. All the	submitted to the Ministry will be complied.
	recommendations made in the EIA/EMP in	All the recommendations made in the
	respect of environmental management,	EIA/EMP in respect of environmental
	and risk mitigation measures relating to the	management, and risk mitigation measures
	project shall be implemented.	are being implemented.
3	NOC from the Central Ground Water	Complied
	Authority (CGWA)/ Concerned Local	No ground water withdrawal for the
	authority shall be obtained before start of	existing & proposed expansion, hence NOC
	the construction of plant and drawing of	from the Central Ground Water Authority
	the ground water for the project activities,	(CGWA)/ Concerned Local authority is not
	State Pollution Control Board / Pollution	envisaged.
	Control Committees shall not issue the	Tertiary Treatment Reverse Osmosis (TTRO
	Consent to Operate (CTO) under Air	water) from CMWSSB is being used for the
	(Prevention and Control of Pollution) Act	existing operation and same will be using
	and Water (Prevention and Control of	for the expansion project.
	Pollution) Act till the project proponent	
	shall obtain such permission.	
4	As proposed, 2 Nos (1 No of 3MW & 1 No	Being complied
	of 6 MW) of the above HFO based DG sets	As committed, 2 Nos of HFO based DG sets
	shall be replaced with 2 Nos of 7 MW each	(1 X 3MW & 1 X 6.6 MW) have been
	LNG based Gas Engines during this	replaced with 2 Nos of 7 MW LNG based
× ×	Financial year 2022-23. As committed, PP	Gas Engines.
	shall replace the remaining 1 No of HFO	Remaining 1 No of HFO based DG set
	based 6 MW DG set with a Gas Engine	(1X6.6MW) will be removed or replaced
	within 1 year from the date of issue of EC.	with a Gas Engine.
5	Total freshwater requirement is 1000 m3	Complied
	/day which will be met from TTRO supply	3ETROPRODIC

this regard shall be obtained from the concerned regulatory authority. The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises. 6 PP shall ensure that effluent shall be treated through existing Effluent Treatment Plant of capacity 300 m³/day. Domestic wastewater is being/will be treated in existing STP of Capacity 160 KLD. The plant is being/will be treated in existing STP of Capacity 160 KLD. The plant is being/will be based on Zero Liquid discharge system and hence treated effluent water / will not be discharged outside the factory premises. 7 3D risk study shall be done including consideration of vertical components and submit to IRO, MOEFCC within 6 months. 8 Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme. 9 Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond. will be met from TTRO supply from CMWSSB. Agreement is executed with CMWSSB. Effluent is treated in the ETP 8 subsequently in a RO Plant. RO permeate is reused in cooling tower as make up water and RO Reject is reated water is discharged outside the premises. Complied Treatment Plant and subsequently in RO Plant of capacity 300 m³/day. • RO permeate is reused in cooling tower as make up water and RO Reject is reused in TPL - ECH PO Plant process. • Domestic wastewater is treated through acredited consultant for existing STP of Capacity 160 KLD • Treated sewage is utilised for green belt development inside the unit premises. Complied 3D risk study including consideration of vertical components was conducted through accredited consultant M/s. Efficaz Consulting Services, Chennai. and report submitted to IRO, MOEF&CC. Complied 6 Comprehensive water audit to be conducted for conservation scheme. 9 Process effluent/any wastewater shall not a		from CNAVACCO AL	
treated through existing Effluent Treatment Plant of capacity 300 m³/day. Domestic wastewater is being/will be treated in existing STP of Capacity 160 KLD. The plant is being/will be based on Zero Liquid discharge system and hence treated effluent water / will not be discharged outside the factory premises. 7 3D risk study shall be done including consideration of vertical components and submit to IRO, MOEFCC within 6 months. 8 Comprehensive water audit to the conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme. 9 Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond. 10 Hazardous chemicals shall be stored in Complied Effluent is treated through existing Effluent Treatment Plant and subsequently in RO Plant of capacity 300 m³/day. RO permeate is reused in cooling tower as make up water and RO Reject is reused in TPL - ECH PO Plant process. Domestic wastewater is treated in existing STP of Capacity 160 KLD Treated sewage is utilised for green belt development inside the unit premises. ZLDS is being achieved. Complied 3D risk study including consideration of vertical components was conducted through accredited consultant M/s. Efficaz Consulting Services, Chennai. and report submitted to IRO, MOEF&CC. Complied. Comprehensive water audit conducted through accredited consultant M/s. Hubert Enviro care system, Chennai and report submitted to IRO, MOEF&CC, Chennai. Complied Dedicated storm water drains are provided to avoid Process effluent/any wastewater mixing with storm water. Storm water drain is passed through a guard pond & reused by processing through RO plant.		concerned regulatory authority. The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises.	will be met from TTRO supply from CMWSSB. Agreement is executed with CMWSSB, Effluent is treated in the ETP & subsequently in a RO Plant. RO permeate is reused in cooling tower as make up water and RO Reject is reused in TPL - ECH PO Plant process. No waste or treated water is discharged outside the premises.
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taliks, talik larilis, drums, carboys etc.	10		Complied

	Flame arresters shall be provided on tan	
	farm, and solvent transfer to be don through pumps.	 k Hazardous chemicals are stored in dedicated tanks located in tank farms. Necessary safety measures are provided in the tank farm.
11	Process organic residue and spent carbon if any, shall be sent to cement industries ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.	Hazardous wastes are being disposed as per the authorisation issued by TNPCB. (HWA 22HFC30934995 dated 10/01/2022. Valid up to 31.03.2026). RLNG is used as fuel in boiler hence no generation of ash
12	Regular VOC monitoring shall be done at vulnerable points.	Complied LDAR survey (VOC Monitoring) is being carried out at vulnerable points periodically. Latest LDAR survey conducted in April'24
13	The oily sludge shall be subjected to melting point for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	Complied Oil sludge is being disposed to authorised TSDF for incineration as per the Hazarday
	Oil catchers / oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	Complied Oil traps are provided in rain/ storm water drainage system inside the factory premises.
15	minimize spillage.	Complied a) Flow meters are provided to monitor and control of raw material consumption and to minimise waste. b) Off gas and Slop oil is reused as fuel in heaters. c) Automated filling system with magnetic flow meter is provided for product despatch to avoid spillage. d) All Raw material & products are handled in pipelines. e) Off gas generated are routed through Pilot Gas Balance Drum and reused as fuel in heaters.

f) Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation. 16 The green belt of 5-10 m width shall be developed in 8.76 Ha i.e. nearly 54.12% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Development of Green belt in the 18 Acre land area (at a distance of 0.36 km, NE from the project site) shall be done to compensate for the deficit Green Belt (30.875%) for LAB Project within 1 year. Status of development of greenbelt in this area shall be informed to the IRO, MOEFCC regularly. Green Belt Area % Trees Sablo (inside) Green Belt Area % Trees Sabling Belt (30.875%) for LAB Project within 1 year. Status of development of greenbelt in this area shall be informed to the IRO, MOEFCC regularly. Green Belt Area % Trees Sablo (inside) Green Belt		6	
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	Responsibility, and as per the action plan proposed by the project proponent of Rs. 3.6 Crores to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centres / support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar streetlights, battery, solar panel etc., in the nearby villages. The action plan shall be completed within time as proposed.	Corporate Environmental Responsibility (CER) allocation for the proposed project is estimated at INR 3.6 Crores. This amount will be dedicated to addressing socioeconomic and environmental challenges in the surrounding communities, with a focus on sustainable development and long-term community welfare. Action plan is prepared & funds have been committed to adhere as per the given plan.
18	The project proponent shall ensure 70% of the employment to the local people, as per the applicable law. The project proponent shall set up a skill development centre/provide skill development training to village people.	Being Complied Preference has been given to local people for employment as per the rules & regulation of company and will be ensured. Skill development centre will be provided, and skill development training will be imparted to village people.
19	A separate Environmental Management	Complied
	Cell (having qualified person with Environmental Science / Environmental Engineering / specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	A separate Environmental Management cell is available with environmental science qualified personnel. Full-fledged laboratory is available to carryout Environmental Management and Monitoring functions.
20	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied Firefighting system is provided as per the Tamilnadu Factories Rules. Fire hydrant system along with hydrants, fire monitors, portable fire extinguishers, foam pourers, sprinkler system, and flame detectors, etc are provided in the process as well as in the storage areas for protection of possible fire hazards during manufacturing process in material handling. Fire license obtained from Tamilnadu Fire & Rescue services, Govt. of Tamilnadu. (Renewal Fire license validity is up to 03.09.2025).

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		Onsite emergency plan is maintained to
		mitigate, in case of any emergency.
21	Storage of raw materials shall be either in	Complied
	silos or in covered areas to prevent dust	Raw materials are stored in closed storage
	pollution and other fugitive emissions. All	tanks to prevent dust pollution and other
	stockpiles should be constructed over	fugitive emissions.
	impervious soil and garland drains with	Storage Tanks are constructed over
	catch pits to trap runoff material shall be	concrete floor and dykes are provided to
	provided. All Internal roads shall be paved.	trap runoff material.
	Industrial vacuum cleaner shall be provided	All roads are paved properly, and roads are
	to sweep the internal roads. The Air	being cleaned by using industrial vacuum
	Pollution Control System shall be	cleaner.
	interlocked with process plant/machinery	The Air Pollution Control Systems will be
	for shutdown in case of operational failure	interlocked with process plant/ machinery
	of Air Pollution Control Equipment.	for shutdown in case of operational failure
		of Air Pollution Control Equipment.
22	Continuous online (24x7) monitoring	Complied
	system for stack emissions/effluent shall	Emission Monitoring system
	be installed for measurement of flue gas	Online Continuous Emission Monitoring
	discharge and the pollutants	system (OCEMS) is installed in the
	concentration, and the data to be	following stacks to monitor PM, SO2, NOx
	transmitted to the CPCB and SPCB server.	and CO parameters and the monitoring
	For online continuous monitoring of	data is being transmitted to the CPCB and
	effluent, the unit shall install web camera	SPCB server.
	with night vision capability and flow meters	OCEMS provided at the following locations.
	in the channel/drain carrying effluent	1) Stack attached to Hot oil heater.
	within the premises.	2) Stack attached to Hydrotreater heater.
	,	3) Stack attached to PACOL heater.
		4) Stack attached to Boiler.
		5) Stack attached to CPP DG Sets and
		6) Camera installed to view Flare stacks.
		OCEMS connectivity details attached as
		Effluents monitoring system
		Effluents are transferred through pipelines
		and not through channel/drain and hence
		online flowmeters are provided at the inlet
		and outlet of ETP and RO plant.
	# # # # # #	Flow meters are provided at the following
		locations and connected to TNPCB/CPCB.
	F-	1) Inlet & Outlet of the ETP,
		2) RO Feed
		3) RO Permeate
		4) RO Reject and

5) Combined effluent outlet from LAB-RO Reject & HCD to ECH PO Plant process. Online Continuous Effluent Monitoring system (OCEMS) is installed at the combined effluent outlet from LAB & HCD plants to ECH PO Plant process for monitoring PH, BOD/COD, TSS and the data is being transmitted to the CPCB and SPCB server. 23 PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection. 24 The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed. 25 Recommendations of mitigation measures from possible accident shall be implemented based on advanced risk Assessment studies conducted for worst case scenarios using latest techniques. 26 Recommendations of mitigation measures from possible accident shall be implemented based on advanced risk Assessment studies conducted for worst case scenarios using latest techniques. 27 Recommendations of mitigation measures from possible accident shall be implemented based on advanced risk Assessment studies conducted for worst case scenarios using latest techniques. 28 Recommendations of mitigation measures from possible accident shall be implemented based on advanced risk Assessment studies have been conducted for worst case scenarios using latest techniques. 29 Recommendations of mitigation measures from possible accident shall be implemented based on advanced risk Assessment studies have been conducted for worst case scenarios using latest techniques through accredited consultant and the recommendations given in the risk assessment studies are being implemented. 29 Explain the CPCB and SPCB problems the combination of the problems of the combination of the combination of the combination of the combination of the combina			
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implemented based on advanced risk Assessment studies conducted for worst case scenarios using latest techniques. Risk Assessment studies have been conducted for worst case scenarios using latest techniques through accredited consultant and the recommendations given in the risk assessment studies are being implemented. Existing safety measures: TPL – LAB has a well laid individual Fire	25		Complied
Assessment studies conducted for worst case scenarios using latest techniques. Risk Assessment studies have been conducted for worst case scenarios using latest techniques through accredited consultant and the recommendations given in the risk assessment studies are being implemented. Existing safety measures: • TPL – LAB has a well laid individual Fire		restate decident shall be	Adequate safety measures are provided to
case scenarios using latest techniques. conducted for worst case scenarios using latest techniques through accredited consultant and the recommendations given in the risk assessment studies are being implemented. Existing safety measures: TPL – LAB has a well laid individual Fire			
latest techniques through accredited consultant and the recommendations given in the risk assessment studies are being implemented. Existing safety measures: • TPL – LAB has a well laid individual Fire			THE DECIT
consultant and the recommendations given in the risk assessment studies are being implemented. Existing safety measures: • TPL – LAB has a well laid individual Fire		case scenarios using latest techniques.	
given in the risk assessment studies are being implemented. Existing safety measures: • TPL – LAB has a well laid individual Fire			
being implemented. Existing safety measures: • TPL – LAB has a well laid individual Fire			
Existing safety measures: TPL – LAB has a well laid individual Fire			given in the risk assessment studies are
TPL – LAB has a well laid individual Fire			
TPL – LAB has a well laid individual Fire Water pumping system with lockey			
Water pumping system with Jockey			TPL – LAB has a well laid individual Fire
1 Sept Company (Co.)			Water pumping system with lockey

Page 7 of 13

- pumps, Main motor driven pumps and Diesel engine driven pumps.
- Fire hydrant ring header runs throughout the plant, covering the entire LAB plant with sufficient numbers of hydrants and monitors as per the Tamil Nadu Factories Rules requirements.
- Sprinkler systems are provided in the storage tanks storing class A chemical.
- Nitrogen blanketing system is provided in the benzene storage tanks.
- Benzene Online analyzer is provided.
- LNG, LPG, Hydrogen, HF and HC detectors are provided at handling areas.
- Necessary PPEs are provided.
- Hydrant system, Foam pourer, water monitor, are provided.
- Fire alarm manual call points provided.
- Dyke walls are provided for all storage tanks to contain the liquid in case of any leakages.

Risk assessment study – Recommendations.

- Fixed water spray system is provided to HF handling area to minimize the HF dispersion into surroundings.
- Online HF leak detectors are provided in and around HF storage and handling areas.
- Chemical Protective suit with dual air system and necessary PPE are provided.
- Periodic training is given to all employees using PPEs and handling emergencies.
- Periodic thickness survey is being carried out for HF pipelines, storage tank and vessels.
- Standard Operating Procedures is available to take care of emergencies.



 Operator training and retraining are being carried out continuously and Mock Drills are being carried out regularly on identified scenarios. Work Permit System is being strictly enforced. Explosion proof electrical equipment and lighting features are provided in the classified area. Smoking and carrying smoking accessories are strictly prohibited. Ensure that safe work practices are followed in premises, including hot work procedures in areas near flammable inventories. Safety Procedures and Do's and Don'ts is prepared and displayed in handling and storage area. Periodic inspection of Pipelines and painting are being carried out to avoid corrosion and subsequent leak. PP shall sensitize and create awareness 26 Complied among the people working within the TPL plant premises is declared as 'Plastic project area as well as its surrounding area Free Zone'. on the ban of Single Use Plastic in order to Display board made of metal with pictorial ensure the compliance of Notification representation of the banned "one time published by MOEFCC on 12th August, use and throwaway plastic" items is 2021. A report along with photographs on provided at the entrance of the industry. the measures taken shall also be included Conducted awareness programs on ban on in the six-monthly compliance report being use of "one time use and throwaway submitted to concerned authority. plastic" and the alternatives for the banned plastics Eco-friendly alternatives such as banana leaf, arecanut palm plate, stainless steel, glass porcelain plants/cups cloth bag, jute bag etc are being encouraged for use. **General Condition** 1 No further expansion or modifications in Complied. the plant, other than mentioned in the EIA No further expansion or modification in the Notification, 2006 and its amendments, plant will be carried out without prior shall be carried out without prior approval

Page 9 of 13

approval of the Ministry of Environment, of the Ministry of Environment, Forest and Forests & Climate Change. Climate Change/SEIAA, as applicable. In in case of deviations or alterations in the case of deviations or alterations in the project proposal from those submitted to project proposal from those submitted to this Ministry for clearance, a fresh this Ministry for clearance, a fresh made to be reference will the made to reference shall be Ministry/SEIAA, as applicable, to assess the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to adequacy of conditions imposed and to add additional environmental protection add additional environmental protection measures required, if any., measures required, if any., The energy source for lighting purpose Complied 2 Energy efficient LED bulbs are being used shall be preferably LED based, or advanced for lighting purpose to conserve energy and having preference in energy conservation environment betterment. and environment betterment. Complied The overall noise levels in and around the Acoustic hoods, silencers, enclosures, etc., plant area shall be kept well within the are provided at DG sets to keep the noise standards by providing noise control level within the prescribed standards. measures including acoustic hoods. All machineries like blowers, compressors silencers, enclosures etc. on all sources of are being maintained properly and noise generation. The ambient noise levels preventive maintenance are taken as per shall conform to the standards prescribed the schedule to control the noise levels. under the Environment (Protection) Act, Ambient noise levels are being monitored periodically through in-house laboratory 1986 Rules, 1989 viz. 75 dBA (daytime) and and TNPCB laboratory. 70 dBA (night time). The company shall undertake all relevant Being Complied All relevant measures are being taken measures for improving the sociotowards the improvement of socioeconomic conditions of the surrounding economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration Action plan was prepared to undertake and shall be implemented. The company eco-developmental measures including eco-developmental undertake shall community welfare measures under measures including community welfare Corporate Environmental Responsibility measures in the project area for the overall local villages involving (CER) improvement of the environment. administration in the project area for the overall improvement of the environment. Following community welfare measures are taken under CSR/CER activities. Primary Health Care Centre (PHCC) is provided at following location in Manali

Page **10** of **13**

area to cater to the primary health care needs of the peoples residing nearby areas.

		 Sadayankuppam Vichoor Periyasekkadu Kannampalayam Seemavaram Mobile Primary Health Care Centre (Dr. Mobile). Smart classroom facility provided to Sadayankuppam village school
		Constructed Rest rooms in Government schools at following location in, Manali. Government high school at Manali New Town Government high school at Redhill Government high school at Vichoor
5	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	Being Complied Sufficient funds are earmarked towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government and implementation schedule is prepared and being followed. Funds earmarked for environmental management / pollution control measures will not be diverted for any other purpose. Complied No suggestion / representation has been received from Panchayat / Municipal corporation urban local body and local NGO while processing the proposal.
7	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and	Being Complied Six monthly reports on the status of the compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) will be

SPCB. A copy of Environmental Clearance submitted to MOEF Regional Office/ the and six monthly compliance status report Zonal Office of CPCB and SPCB. shall be posted on the website of the A copy of Environmental Clearance and sixcompany. monthly compliance status report are uploaded in our company's website (www.tnpetro.com) and is being updated periodically. The environmental statement for each **Being Complied** financial year ending 31st March in Form-V The environmental statement (Form V) is as is mandated shall be submitted to the being submitted to TNPCB once in a year concerned State Pollution Control Board as before 30th Sep every year. under the Environment prescribed Environmental statement (Form V) for the (Protection) Rules, 1986, as amended year 2023 – 2024 was submitted to TNPCB subsequently, shall also be put on the website of the company along with the on 20.09.2024. status of compliance of environmental The six-monthly compliance status of clearance conditions and shall also be sent environmental clearance conditions to the respective Regional Offices of including results of monitored data is being submitted to MOEF Regional Office MoEF&CC by e-mail. through e-mail. A copy of Form V and six-monthly compliance status of environmental clearance conditions were uploaded in the company's website. (www.tnpetro.com) The project proponent shall inform the Complied public that the project has been accorded Detail of the Environmental clearance environmental clearance by the Ministry obtained for the project was published in and copies of the clearance letter are English & Tamil newspapers (The Financial available with the SPCB/Committee and Express on 03.12.2022 and Makkal Kural on may also be seen at Website of the Ministry and at https://parivesh.nic.in/. This shall be 02.12.2022) as public notice advertised within seven days from the date advertisements. of issue of the clearance letter, at least in Advertisements were submitted to the two local newspapers that are widely Regional Office, MOEFCC on 27.12.2022. circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry. The project authorities shall inform the 10 Complied. Regional Office as well as the Ministry, the The details of date of financial closure: date of financial closure and final approval 13th February 2023

Page 12 of 13

	of the project by the concerned authorities	The consent for establishment (CTE)
	and the date of start of the project.	obtained from TNPCB CONSENT ORDER
		NOs. 2306151374029,2306251374029,
		DATED: 31/08/2023.
	* 1	G.O from Tamilnadu Government
		based on Site Appraisal Committee (SAC) recommendation obtained in the month of November-2023 • Date of start of the project: Sep-2023
11	This Environmental clearance is granted	Shall be complied.
	subject to final outcome of Hon'ble	Shan be complied.
	Supreme Court of India, Hon'ble High	
	Court, Hon'ble NGT and any other Court of	de la companya de la
	Law, if any, as may be applicable to this	
	project.	



GREEN BELT -18 ACRE AREA FOR TPL-LAB PLANT











From

To

D. Balasubramanian, M.Sc., B.Ed., Deputy Chief Scientific Officer, District Environmental Laboratory, Manali Tamil Nadu Pollution Control Board. 950/1, Poonamallee High Road. Arumbakkam, Chennai-106

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

Lr.No.TNPC Bd/DEL-MNL/Air Survey/F. No.74/2024-25, Dt. 19.08.2024

Sir,

Furnishing of Report of Analysis of Ambient Air Quality / Sub:

Stack Monitoring / Ambient Noise Level Survey – Reg.

Ref: 1. This office Lr.No. TNPCB/DEL/MNL/AAQS/SM/NLS/F.No.74/2024-25 dt. 17.04.2024

2. Your Lr.No.Nil dt:29.05.2024

3. Cash Receipt No.159 dt.29.05.2024 Rs.1,18,250/-

I am herewith sending the Report of Analysis of Ambient Air Quality / Stack Monitoring / Ambient Noise Level Survey conducted in the vicinity of your industry on M/s. TPL (LAB), Manali Express Highway, Chennai - 68 on 26.07.2024 with invoice for Rs.1,18,250/- (Rupees One Lakh Eighteen thousand Two Hundred and Fifty only) towards the above survey / analytical charges, and the same has been adjusted vide reference (3) cited.

Kindly acknowledge the receipt of the above without fail.

Deputy Chief Scientific O **District Environmental Laboratory Tamil Nadu Pollution Control Board**

Manali

Encl.: As above.

Copy submitted to:

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

3. Copy to file.



District Environmental Laboratory, Manali
AMBIENT AIR QUALITY SURVEY – Report of Analysis

Report No. 30/AAQS/2024-25

1. Name of the Industry

M/s. TPL (LAB),

2. Address of the Industry

Manali Express Highway, Chennai - 68.

3. Date of Survey

26.07.2024

4. Duration of Survey

8 Hours / 24 hours

5. Category

Red / Orange / Green – Large / Medium / Small

6. Land use classification :

Industrial / Commercial / Residential / Sensitive

Date: 19.08.2024

Meteorological Conditions

Tricted diagram Conditions					
Ambient	Min	Max	Relative	Min	Max
Temperature (⁰ C)	31	35	Humidity (%)	54	72
Weather Condition Partially Clo		y Cloudy	Rain Fall	Ni	1
		(mm)			
Predominant Wind WSW – ENE Direction		Mean Wind Speed (km/hr)	13.6		
					1

Ambient Air Quality Survey Results

			6 2222	Sur ity ite	Build			
Sl. Location		nce *	* * GL	Pollutants Concentration (microgram / m ³)				
No.		Direction *	Distance (m)*	Height Form G (m)	PM 2.5	PM 10	SO ₂	NO ₂
1	On top of platform adjacent to Raw water pond	NE	100	2.0	32	86	15	26
2	On top of platform near hot oil heater	Е	50	2.0		82	14	22
3	On top of CP station near flare stack	SE	100	. 2.0		78	13	19
4	On top of CP station – I	SW	100	2.0	24	64	9	13
5	On Top of Drivers rest Room	W	75	2.0		68	10	14
6	On top of the weigh bridge office room	NW	150	2.0		74	12	16

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

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



District Environmental Laboratory, Manali

AMBIENT AIR QUALITY SURVEY

Schematic Diagram Showing Location of Sampling

Report No.30 /AAQ/SM/2024-25

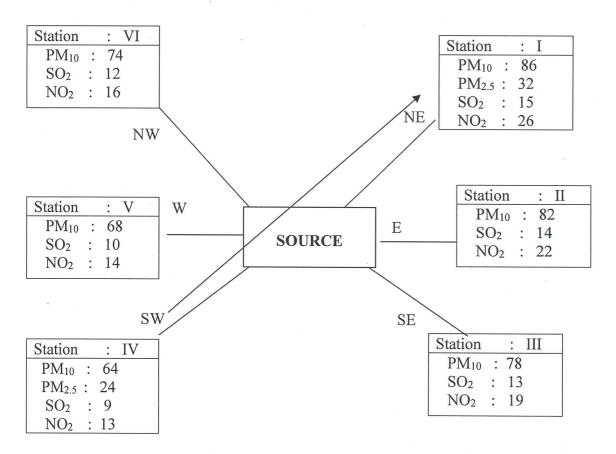
Name and Address of the Industry

: M/s. TPL (LAB)

Manali Express Highway, Chennai – 68.

Date of Survey

: 26.07.2024



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

Meteorological Conditions:				
Predominant Wind Direction	WSW – ENE			
Wind Speed (Km/hr)	13.6			
Weather Condition	Partially Cloudy			
Rainfall	Nil			

District Environmental Laboratory, Manali

STACK MONITORING SURVEY – Report of Analysis

Report No. 30/ SM/2024-25

Date: 19.08.2024

1. Name of the Industry

M/s. TPL (LAB),

2. Address of the Industry

Manali Express Highway, Chennai – 68

3. Date of Survey

26.07.2024

4. Type of Industry

Coal/Chemical/Sugar/Paper & Pulp/

Power plant / Textile Processing/Petroproducts

Stack Monitoring Survey Results

Sl.		pe		dm in		Pollutants (mg/Nm ³)			
No.	Stack attached to	Fuel used	Stack .Temp ⁰ K	Velocity in (m/ sec)	Discharge rate In Nm³/hr	PM	SO ₂	NO _x	
1	Boiler – 8T	LNG	453	11.1	41395	5	2	52	
2	PACOL Heater	LNG	379	19.8	54664	8	BDL	42	
3	Hydrobon Heater	LNG	443	16.8	15562	8	BDL	81	
4	CPP-II	_i FO	425	20.3	59090	32	513	195	
5	Hot Oil Heater	LNG	432	16.6	381617	6	3	59	

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



District Environmental Laboratory, Manali

Stack Details

Report No.30/AAQ/SM/2024-25

1. Name and Address of the Industry:

M/s. TPL (LAB)

Manali Express Highway, Chennai – 68

2. Date of Survey

26.07.2024

Sl. No.	Particulars	1	2	3
1.	Stack attached to	Boiler	Heater	Heater
2.	Details of process stack	Boiler- 8T	PACOL	Hydrobon
3.	Height from G Level in (m)	30	30	30
4.	Diameter in (m)	1.4	1.1	0.69
5.	Port hole height from Ground Level or bends or ducts in (m)	16.7	40.0	20.0
6.	Fuel Used (with % Sulphur content)	LNG	LNG	LNG
7.	Fuel Consumption rate per hr (mention units)	10 kg / hr	880 kg / hr	120 kg / hr
8.	Type of Stack and capacity	Round	Round	Round
9.	Production on 26.07.2024	Linear Alkyl Be	nzene 296 MT, Heavy A N-Paraffin – 168 MT	Alkylate – 13 MT,
10.	APC Measures provided	Stack Provided	Stack Provided	Stack Provided
11.	APC functional status	Functioning	Functioning	Functioning
12.	Ambient temp in °K	305	306	305
13.	Temp of flue gas in °K	453	379	443
14.	Velocity of flue gas in m/sec	11.1	19.8	16.8
15.	Volume of flue gas sampled in m ³	1.000	1.000	1.007
16.	Gaseous Discharge rate per day in Nm³/hr	41395	54664	15562



District Environmental Laboratory, Manali Stack Details

Report No.30/AAQ/SM/2024-25

1. Name and Address of the Industry:

M/s. TPL (LAB)

Manali Express Highway, Chennai – 68

2. Date of Survey

26.07.2024

Sl. No.	Particulars	4	5
1.	Stack attached to	CPP	Heater
2.	Details of process stack	CPP-II	Hot Oil Heater
3.	Height from G Level in (m)	31.5	76
4.	Diameter in (m)	1.2	3.4
5.	Port hole height from Ground Level or bends or ducts in (m)	23	68
6.	Fuel Used (with % Sulphur content)	FO	LNG
7.	Fuel Consumption rate per hr (mention units)	1500 kg / hr	3500 kg / hr
8.	Type of Stack and capacity	Round	Round
9.	Production on 26.07.2024		296 MT, Heavy Alkylate – araffin – 168 MT
10.	APC Measures provided	Stack Provided	Stack Provided
11.	APC functional status	Functioning	Functioning
13.	Ambient temp in °K	304	304
14.	Temp of flue gas in °K	425	432
15.	Velocity of flue gas in m/sec	20.3	16.6
16.	Volume of flue gas sampled in m ³	1.021	1.021
17.	Gaseous Discharge rate per day in Nm³/hr	59090	381617



District Environmental Laboratory, Manali

STACK MONITORING SURVEY - Additional details

Report No. 30/ SM/2024-25

Date: 19.08.2024

1. Name of the Industry

M/s. TPL (LAB)

2. Address of the Industry

Manali Express Highway, Chennai – 68

3. Date of Survey

26.07.2024

4. Type of Industry

Coal/Chemical/Sugar/Paper & Pulp/

Power plant / Textile Processing/ Petroproducts

Stack Monitoring Additional details

Sl. No.	Details of stack mentioned in the Air Consent order	Details of stack available and in working condition	Details of stack for which stack Emission sampling have been done	Justification for the left out of stack Emission Sampling
1.	Boiler – 8T	Working	Sampling Done	
2.	PACOL Heater	Working	Sampling Done	
3.	Hydrobon Heater	Working	Sampling Done	
4.	CPP-II	Working	Sampling Done	
5.	Hot Oil Heater	Working	Sampling Done	

District Environmental Laboratory, Manali
AMBIENT/SOURCE NOISE LEVEL SURVEY - Report of Analysis

Report No. 30/ NLS/2024-25

Date: 19.08.2024

1.	Name of the Industry M/s. T			PL (LAB)	
2.	Address o	f the Industry	Manali	Express Highway, Chennai	- 68
3.	Date of Su	irvey	26.07.2	024	
Catego		RL		Land use Classification	Industrial
	Type of Survey Ambient/Son		urce	Time of Survey	Day
ivieteo	Meteorological conditions			Calm/Windy/Rainy	Windy

Logging Parameters

In atronomy 4 II	1 01	DOTT L T T			Tarameters	
Instrument Use		ESVA Model SC31	0	Se	rial No	T243103
Logging Interva	1	10 Minutes each po				
Weighting					easuring Range	50-110 dB(A)
weighting	" A"	Peak	"C"	'	Time Weighting	FAST
		Weighting			8	17151
Sound Incidence	e	RANDOM			Times in L	4.4.2.2
		IMINDOM			Time in hrs	14.00 - 15.30

Report of Noise Level Monitoring

SI		on (9	nc	Sound	Level – d	IB (A)
No	Location	Duration (min)	Distance (M)	Direction	L_{eq}	Min	Max
1	Near Raw Water Pond	10	100	NE	62.1	58.4	71.6
2	Near Flare Area	10	100	SE	60.4	55.3	70.2
3	Near CP Station -I	10	100	SW	58.4	54.2	66.7
4	Near Drivers Leisure Room	10	75	W	57.6	52.1	68.1
5	Near Temple	10	100	NW	63.4	59.0	73.8

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



District Environmental Laboratory, Manali

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

1. Name of Industry

M/s. TPL (LAB)

2. Pollution Category

Red Large

3. Date of A.A.Q. Survey

26.07.2024

4. Predominant Wind Direction

WSW - ENE

5. Weather condition

Partially Cloudy

STATUS OF POLLUTANTS LEVEL

I. AMBIENT AIR QUALITY:-

1. Total No. of A.A.Q. stations monitored

: 6

2. No. of A.A.Q. stations in which Pollutants

Level exceeded the Boards standards

: Nil

Maximum and Minimum values of Pollutants Level observed:

Sl.		Values in m	nicrogram/m ³	BOARD's STANDARD
No.	POLLUTANT	Maximum	Minimum	(As per consent order)
1. 2.	PM ₁₀ PM.2.5 GASEOUS POLLUTANTS:-	86 32	64 24	100 60
	(i) SO2	15	9	80
	(ii) NO2	26	13	80

II. STACK MONITORING:-

1. Total No. of Stacks Monitored

5

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

: Nil







TEST REPORT

NAME OF INDUSTRY ADDRESS

: TAMILNADU PETROPRODUCTS LIMITED (LAB PLANT)

Manali Express Highway, Manali, Chennai - 600 068.

Sample Ref No : SAS/AS/305/09 Sample Rep No : 305/09 Date of Sampling : 23.09.2024 Reporting Date : 01.10.2024

Sampling Location

: Near Raw Water Pump House

Sample Description
Sample Drawn By /Date

: Ambient Air Monitoring

Received On

: SAS/23.09.2024 : 23.09.2024

Analysis Commenced On Analysis Completed on : 23.09.2024 : 01.10.2024

Sampling Method Sampling Time : IS 5182 (Part V) and (Part XIV)

Ambient Temperature Relative Humidity

: 38°C : 59%

SI.	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*
No					
1	Particulate Matter (PM _{2.5})	Envirotech Manual	µg / m³	19.50	60
2	Respirable Particulate Matter (PM ₁₀)	IS 5182 Part 23-2012	µg / m³	56.50	100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	μg / m³	10.50	80
4	Nitrogen Dioxide (NO ₂)	IS 5182 Part 6-2012	μg / m³	24.50	80
5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009	μg / m ³	11.80	180
6	Lead (Pb)	IS 5182 Part 22-2009	µg / m³	BDL (DL=0.1)	1
7	Carbon Monoxide (CO) (1 Hour)	IS 5182 Part 10-1999 R.2009	mg/m³	BDL (DL=1.15)	4
8	Ammonia (NH ₃)	Indophenol Method	μg / m³	9.50	400
9	Arsenic (As)	IS 5182 Part 22-2009	ng / m ³	BDL (DL=1.0)	6
10	Nickel (Ni)	IS 5182 Part 22-2009	ng / m³	BDL (DL=0.1)	20
11	Benzene (C ₆ H ₆₎	IS 5182 Part 11-2012	μg / m³	BDL (DL =0.1)	5
12	Benzo (a) Pyrene	IS 5182 Part 12-2009	ng / m ³	BDL	1
13	Suspended Particular Matter	IS 5182 Part 4-1999	μg / m³	74.50	

BDL - Below Detectable Limit; DL - Detection Limit

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

End of Report

for SANTHOME ENVIRO SERVICES

Verified & Authorized By CHENNAL A.Kaviyarasi - Technical Manager 600 043

NOTE;

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







TEST REPORT

NAME OF INDUSTRY

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

ADDRESS

Manali Express Highway,

Sample Ref No : SAS/AS/306/09

Manali, Chennai - 600 068.

Sample Rep No: 306/09

Date of Sampling : 23.09.2024 Reporting Date : 01.10.2024

Sampling Location

: Near Security Gate- 1

Sample Description Sample Drawn By /Date

: Ambient Air Monitoring

Received On

: SAS/23.09.2024 : 23.09.2024

Analysis Commenced On Analysis Completed on

: 23.09.2024 : 01.10.2024

Sampling Method

: IS 5182 (Part V) and (Part XIV)

Sampling Time Ambient Temperature Relative Humidity

: 8 Hrs : 38°C

: 59%

SI.	PARAMETERS	PROTOCOL	UNIT	RESULT	NA A OO*
Vo			0	KESOLI	NAAQS*
1	Particulate Matter (PM _{2.5})	Envirotech Manual	μg / m³	22.60	60
2	Respirable Particulate Matter (PM ₁₀)	IS 5182 Part 23-2012	μg / m³	51.50	100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	µg / m³	15.20	80
4	Nitrogen Dioxide (NO ₂)	IS 5182 Part 6-2012	µg / m³	24.50	80
5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009	μg / m ³	13.50	180
6	Lead (Pb)	IS 5182 Part 22-2009	μg / m ³	BDL	1
7	Carbon Monoxide (CO) (1 Hour)	IS 5182 Part 10-1999 R.2009	mg/m³	(DL=0.1) BDL	4
8	Ammonia (NH ₃)	Indophenol Method	μg / m³	(DL=1.15) 9.80	400
9	Arsenic (As)	IS 5182 Part 22-2009	ng / m ³	BDL	400 6
10	Nickel (Ni)	IS 5182 Part 22-2009	ng / m³	(DL=1.0) BDL	20
11	Benzene (C ₆ H ₆₎	IS 5182 Part 11-2012	µg / m³	(DL=0.1) BDL	5
12	Benzo (a) Pyrene	IS 5182 Part 12-2009	ng / m³	(DL=0.1) BDL	1
13	Suspended Particular Matter	IS 5182 Part 4-1999	μg / m³	(DL=0.1) 72.80	

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

End of Report

for SANTHOME ENVIRO SERVICES

A.Kaviyarasi - Technical Manager

NOTE:

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



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



TEST REPORT

NAME OF INDUSTRY

ADDRESS

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

Manali Express Highway,

Manali, Chennai - 600 068. Date of Sampling : 23.09.2024

Reporting Date

: 01.10.2024

Sample Rep No: 307/09

Sample Ref No : SAS/AS/307/09

Sampling Location Sample Description Sample Drawn By /Date

Relative Humidity

Received On Analysis Commenced On Analysis Completed on

Sampling Method Sampling Time Ambient Temperature : Ambient Air Monitoring : SAS/23.09.2024

: 23.09.2024 : 23.09.2024 : 01.10.2024

: Near Ro plant

: IS 5182 (Part V) and (Part XIV)

: 8 Hrs : 38°C : 59%

SI.N	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*
0					
1	Particulate Matter (PM _{2.5})	Envirotech Manual	μg / m³	19.50	60
2	Respirable Particulate Matter (PM ₁₀)	IS 5182 Part 23-2012	μg / m³	46.80	100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	μg / m³	11.40	80
4	Nitrogen Dioxide (NO ₂)	IS 5182 Part 6-2012	μg / m³	22.10	80
5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009	μg / m³	11.50	180
6	Lead (Pb)	IS 5182 Part 22-2009	μg / m³	BDL (DL=0.002)	1
7	Carbon Monoxide (CO) (1 Hour)	IS 5182 Part 10-1999 R.2009	mg/m³	BDL (DL=0.05)	4
8	Ammonia (NH ₃)	Indophenol Method	μg / m ³	6.80	400
9	Arsenic (As)	IS 5182 Part 22-2009	ng / m³	BDL (DL=2.0)	6
10	Nickel (Ni)	IS 5182 Part 22-2009	ng / m³	BDL (DL=2.0)	20
11	Benzene (C ₆ H ₆₎	IS 5182 Part 11-2012	μg / m³	BDL (DL=0.1)	5
12	Benzo (a) Pyrene	IS 5182 Part 12-2009	ng / m³	BDL (DL=0.1)	1
13	Suspended Particular Matter	IS 5182 Part 4-1999	μg / m³	61.25	

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

End of Report

for SANTHOME ENVIRO SERVICES

Verified & Authorized By

A.Kaviyarasi - Technical Manager

CHENNAL

NOTE:

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







TEST REPORT

NAME OF INDUSTRY

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

ADDRESS

Manali Express Highway, Manali, Chennai - 600 068.

Sample Ref No : SAS/AS/308/09

Date of Sampling : 23.09.2024

Sample Rep No: 308/09

: 01.10.2024

Sampling Location

Reporting Date

Sample Description

: Near Driver Restroom Filling Plant Backside

Sample Drawn By /Date

: Ambient Air Monitoring

Received On

: SAS/23.09.2024 : 23.09.2024

Analysis Commenced On

: 23.09.2024

Analysis Completed on

: 01.10.2024

Sampling Method

: IS 5182 (Part V) and (Part XIV)

Sampling Time Ambient Temperature Relative Humidity

: 8 Hrs : 38°C

: 59%

SI.N	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*
0	(5)				
1	Particulate Matter (PM _{2.5})	Envirotech Manual	µg / m³	21.40	60
2	Respirable Particulate Matter (PM ₁₀)	IS 5182 Part 23-2012	μg / m³	47.50	100
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	μg / m³	9.10	80
4	Nitrogen Dioxide (NO ₂)	IS 5182 Part 6-2012	μg / m³	17.40	80
5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009	µg / m³	10.80	180
6	Lead (Pb)	IS 5182 Part 22-2009	µg / m³	BDL (DL=0.002)	1
7	Carbon Monoxide (CO) (1 Hour)	IS 5182 Part 10-1999 R.2009	mg/m ³	BDL (DL=0.05)	4
8	Ammonia (NH ₃)	Indophenol Method	µg / m³	6.80	400
9	Arsenic (As)	IS 5182 Part 22-2009	ng / m ³	BDL (DL=2.0)	6
10	Nickel (Ni)	IS 5182 Part 22-2009	ng / m³	BDL (DL=2.0)	20
11	Benzene (C ₆ H ₆₎	IS 5182 Part 11-2012	µg / m³	BDL (DL=0.1)	5
12	Benzo (a) Pyrene	IS 5182 Part 12-2009	ng / m³	BDL (DL=0.1)	1
13	Suspended Particular Matter	IS 5182 Part 4-1999	μg / m³	74.50	-

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

End of Report

for SANTHOME ENVIRO SERVICES

Verified & Authorized By A.Kaviyarasi - Technical Manager

CHENNAL 600 043

NOTE;

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



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TEST REPORT

NAME OF INDUSTRY

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

ADDRESS

Manali Express Highway,

Manali, Chennai - 600 068.

Sample Ref No : SAS/AS/309/09 Sample Rep No: 309/09

Date of Sampling : 23.09.2024

: 01.10.2024

Sampling Location

Reporting Date : South West Tank Form CP Station - 1

Sample Description

: Ambient Air Monitoring

Sample Drawn By /Date

: SAS/23.09.2024

Received On

: 23.09.2024

Analysis Commenced On Analysis Completed on

: 23.09.2024 : 01.10.2024

Sampling Method

: IS 5182 (Part V) and (Part XIV)

Sampling Time

: 8 Hrs

: 38°C Ambient Temperature Relative Humidity : 59%

SI. No	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*	
1	Particulate Matter (PM _{2.5})	Envirotech Manual	μg / m³	19.20	60	
2	Respirable Particulate Matter (PM ₁₀)	IS 5182 Part 23-2012	μg / m³	43.50	100	
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	μg / m³	8.90	80	
4	Nitrogen Dioxide (NO ₂)	IS 5182 Part 6-2012	μg / m³	17.80	80	
5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009	μg / m³	11.40	180	
6	Lead (Pb)	IS 5182 Part 22-2009	µg / m³	BDL (DL=0.002)	1	
7	Carbon Monoxide (CO) (1 Hour)	IS 5182 Part 10-1999 R.2009	mg/m ³	BDL (DL=0.05)	4	
8	Ammonia (NH ₃)	Indophenol Method	µg / m³	6.80	400	
9	Arsenic (As)	IS 5182 Part 22-2009	ng / m ³	BDL (DL=2.0)	6	
10	Nickel (Ni)	IS 5182 Part 22-2009	ng / m³	BDL (DL=2.0)	20	
11	Benzene (C ₆ H ₆₎	IS 5182 Part 11-2012	µg / m³	BDL (DL=0.1)	5	
12	Benzo (a) Pyrene	IS 5182 Part 12-2009	ng / m ³	BDL (DL=0.1)	1	
13	Suspended Particular Matter	IS 5182 Part 4-1999	μg / m³	67.80	-	

BDL - Below Detectable Limit : DL - Detection Limit

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

End of Report

for SANTHOME ENVIRO SERVICES

ENVIO

CHENNAL 600 043

A.Kaviyarasi - Technical Manager

NOTE:

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







TEST REPORT

NAME OF INDUSTRY

ADDRESS

Sample Ref No : SAS/AS/310/09

Sample Rep No : 310/09 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(LAB PLANT)

Manali Express Highway, Manali, Chennai - 600 068.

Date of Sampling : 23.09.2024 Reporting Date

: 01.10.2024

: East Compound wall CP Station - 3

: Ambient Air Monitoring : SAS/23.09.2024

: 23.09.2024

: 23.09.2024 : 01.10.2024

: IS 5182 (Part V) and (Part XIV)

: 8 Hrs : 38°C : 59%

SI.N	PARAMETERS	PROTOCOL	UNIT	RESULT	NAAQS*
0				112021	NAAQS
1	Particulate Matter (PM _{2.5})	Envirotech Manual	μg / m³	18.50	60
2	Respirable Particulate Matter (PM ₁₀)	IS 5182 Part 23-2012	μg / m³	44.80	9004-990m
3	Sulphur Dioxide (SO ₂)	IS 5182 Part 2 -212	μg / m ³	8.90	100
4	Nitrogen Dioxide (NO ₂)	IS 5182 Part 6-2012	μg / m³	17.80	80
5	Ozone (O ₃)	IS 5182 Part 9-1974 R.2009			80
6	Lead (Pb)	The same and the s	μg / m³	10.50	180
Ŭ	Load (i b)	IS 5182 Part 22-2009	µg / m³	BDL	1
7	Carbon Monoxide (CO) (1 Hour)	IS 5182 Part 10-1999 R.2009	mg/m ³	(DL=0.002) BDL	
			g/	(DL=0.05)	4
8	Ammonia (NH ₃)	Indophenol Method	µg / m³	6.80	400
9	Arsenic (As)	IS 5182 Part 22-2009	ng / m ³	BDL	6
10	Niekal (NIX			(DL=2.0)	
10	Nickel (Ni)	IS 5182 Part 22-2009	ng / m ³	BDL	20
11	Benzene (C ₆ H ₆₎	IS 5182 Part 11-2012	μg / m³	(DL=2.0)	NOTONS
40		10 0 102 1 411 11-2012	pg / III	BDL	5
12	Benzo (a) Pyrene	IS 5182 Part 12-2009	ng / m ³	(DL=0.1) BDL	1
13	Suspended Particular Matter	IS 5182 Part 4-1999	μg / m³	(DL=0.1) 68.80	1
BDL -	Below Detectable Limit ; DL – Detection Lir	nit .		20.00	
_		THE			

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

End of Report

for SANTHOME ENVIRO SERVICES

Verified & Authorized By

A.Kaviyarasi - Technical Manager

CHENNAL

600 043

NOTE;

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.







TEST REPORT

NAME OF INDUSTRY

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

ADDRESS

Manali Express Highway,

Manali, Chennai - 600 068. Date Of Sampling : 23.09.2024 Sample Ref No : SAS/AS/311/09

Sample Rep No: 311/09

Reporting Date

: 01.10.2024

SAMPLED ON

: 23.09.2024

STACK IDENTIFICATION NO

: Emergency DG Set 1250 KVA

PITOT TUBE CONSTANT AMBIENT TEMPERATURE GAS VOLUME SAMPLED

: 0.1951 : 38° C

: 400 liters

SI.No	PARAMETERS	RESULT	UNIT	Limit as per Ministry Of Environment and Forests Notification, 09.06.2002 (MOEF) (mg/m³)	PROTOCOL
1	Flue Gas Temperature	120	°C	-	IS:11255
2	Flue Gas Pressure	8.40	mm Hg	-	IS:11255
3	Flue Gas Velocity	9.60	m/s	-	IS:11255
4	Volume of Gas Discharged	3860	Nm³ / hr	-	IS:11255
5	Particulate Matter (PM)	35.60	mg / Nm ³	75 (max)	IS:11255
6	Sulphur- di- oxide (SO ₂)	14.50	mg / Nm ³	-	IS:11255
7	Nitrogen Dioxide (NO ₂)	340.0	mg / Nm ³	710 (max)	IS:11255
8	Carbon – di - oxide (CO ₂)	9.20	%	-	IS:13270
9	Carbon Monoxide (CO)	58.50	%	150 (max)	IS:13270
10	Oxygen (O ₂)	10.50	%	-	IS:13270

BDL - Below Detectable Limit; DL - Detection Limit

Report Opinion: The above results meets the MOEF notification.

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

End of Report

for SANTHOME ENVIRO SERVICES

A. Kaviyarasi - Technical Manager

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

CHENNAL 600 043

Email ID: santhomeenviro@gmail.com | Website: www.santhomeenvirolab.in



TEST REPORT

NAME OF INDUSTRY **ADDRESS**

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

CHENNAL 600 043

Manali Express Highway, Manali, Chennai - 600 068.

Date Of Sampling : 23.09.2024 Reporting Date : 01.10.2024

: 23.09.2024

SAMPLED ON STACK IDENTIFICATION NO

PITOT TUBE CONSTANT

Sample Rep No: 311/09

Sample Ref No : SAS/AS/311/09

: Emergency DG Set 1250 KVA : 0.1951

: 38° C AMBIENT TEMPERATURE GAS VOLUME SAMPLED

: 400 liters

Discipline- Chemical

	Discipline Offermour			
SI. No	PARAMETERS	RESULT	UNIT	PROTOCOL
1	Non Methane Hydrocarbons	BDL(DL:0.2)	Mg/Nm³	SOP-SAS-009:2024
2	Hydrocarbons	BDL(DL: 0.1)	Mg/Nm ³	SOP-SAS-010:2024
3	Olefins	BDL(DL: 0.1)	μg/Nm³	SOP-SAS-11:2024
			End of Report	

for SANTHOME ENVIRO SERVICES

A.Kaviyarasi - Technical Manager

NOTE:

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TEST REPORT

NAME OF INDUSTRY

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

ADDRESS

Manali Express Highway,

Sample Ref No : SAS/AS/312/09

Manali, Chennai - 600 068.

Sample Rep No : 312/09

Date Of Sampling : 23.09.2024

Reporting Date : 01.10.2024

SAMPLED ON

: 23.09.2024

STACK IDENTIFICATION NO

: Hot Oil Heater Stack

PITOT TUBE CONSTANT AMBIENT TEMPERATURE GAS VOLUME SAMPLED

: 0.1951 : 38° C

· 400 liters

SI. No	PARAMETERS	RESULT	UNIT	Limit as per Ministry Of Environment and Forests	PROTOCOL
				Notification, 09.06.2002 (MOEF) (mg/m³)	
1	Flue Gas Temperature	635	°C	-	IS:11255
2	Flue Gas Pressure	7.20	mm Hg	-	IS:11255
3	Flue Gas Velocity	8.90	m/s	-	IS:11255
4	Volume of Gas Discharged	105480	Nm³ / hr		IS:11255
5	Particulate Matter (PM)	5.50	mg / Nm ³	10(MAX)	IS:11255
6	Sulphur- di- oxide (SO ₂)	7.80	mg / Nm³	50(MAX)	IS:11255
7	Nitrogen Dioxide (NO ₂)	72.60	mg / Nm ³	350(MAX)	IS:11255
8	Carbon – di - oxide (CO ₂)	7.0	%	-	IS:13270
9	Carbon Monoxide (CO)	44.60	mg / Nm ³	150 (MAX)	IS:13270
10	Oxygen (O ₂)	1.80	%	-	IS:13270

tectable Limit ; DL – Detection Limit

Report Opinion: The above results meets the MOEF notification.

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

End of Report

for SANTHOME ENVIRO SERVICES

NOTE:

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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

A.Kaviyarasi - Technical Manager



TEST REPORT

NAME OF INDUSTRY

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

CHENNAL

600 043

ADDRESS

Manali Express Highway,

Sample Ref No : SAS/AS/312/09

Manali, Chennai - 600 068.

Sample Rep No: 312/09

Date Of Sampling : 23.09.2024 : 01.10.2024

Reporting Date

SAMPLED ON

: 23.09.2024 : Hot Oil Heater Stack

STACK IDENTIFICATION NO PITOT TUBE CONSTANT

: 0.1951

AMBIENT TEMPERATURE

: 38° C

GAS VOLUME SAMPLED

: 400 liters

Discipline- Chemical

SI. No	PARAMETERS	RESULT	UNIT	PROTOCOL
1	Non Methane Hydrocarbons	BDL(DL :0.2)	Mg/Nm ³	SOP-SAS-009:2024
2	Hydrocarbons	BDL(DL: 0.1)	Mg/Nm ³	SOP-SAS-010:2024
3	Olefins	BDL(DL: 0.1)	µg/Nm³	SOP-SAS-011:2024

End of Report

for SANTHOME ENVIRO SERVICES

Verified & Authorized By

A.Kaviyarasi - Technical Manager

NOTE:

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TEST REPORT

NAME OF INDUSTRY

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

ADDRESS

Manali Express Highway, Manali, Chennai - 600 068.

Sample Ref No : SAS/AS/313/09

Date Of Sampling : 23.09.2024

Sample Rep No: 313/09

Reporting Date

: 01.10.2024

SAMPLED ON

: 23.09.2024

STACK IDENTIFICATION NO

: PACOL Heater Stack

PITOT TUBE CONSTANT

: 0.1951

AMBIENT TEMPERATURE	:	38° C
GAS VOLUME SAMPLED	:	400 liters
PARAMETERS	RESULT	UNI

SI.No	PARAMETERS	RESULT	UNIT	Limit as per Ministry Of Environment and Forests	PROTOCOL
				Notification, 09.06.2002 (MOEF) (mg/m³)	
1	Flue Gas Temperature	755	°C		IS:11255
2	Flue Gas Pressure	8.51	mm Hg	-	IS:11255
3	Flue Gas Velocity	9.20	m/s	-	IS:11255
4	Volume of Gas Discharged	14800	Nm³ / hr	-	IS:11255
5	Particulate Matter (PM)	6.80	mg / Nm ³	10(MAX)	IS:11255
6	Sulphur- di- oxide (SO ₂)	12.40	mg / Nm ³	50(MAX)	IS:11255
7	Nitrogen Dioxide (NO ₂)	68.0	mg / Nm ³	350(MAX)	IS:11255
8	Carbon – di - oxide (CO ₂)	8.50	%	-	IS:13270
9	Carbon Monoxide (CO)	36.80	mg / Nm ³	150 (MAX)	IS:13270
10	Oxygen (O ₂)	1.50	%		IS:13270

BDL - Below Detectable Limit; DL - Detection Limit

Report Opinion: The above results meets the MOEF notification.

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

End of Report

for SANTHOME ENVIRO SERVICES

A.Kaviyarasi - Technical Manager

600 043

NOTE:

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



TEST REPORT

NAME OF INDUSTRY

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

: 01.10.2024

ENVIR

CHENNA 600 043

ADDRESS

Manali Express Highway,

Manali, Chennai - 600 068.

Sample Ref No : SAS/AS/313/09 Sample Rep No : 313/09

Date Of Sampling : 23.09.2024 Reporting Date

SAMPLED ON

STACK IDENTIFICATION NO

: 23.09.2024

PITOT TUBE CONSTANT

: PACOL Heater Stack

AMBIENT TEMPERATURE GAS VOLUME SAMPLED

: 0.1951 : 38° C

: 400 liters

Discipline- Chemical

	Discipline- Orientidai	·		
SI.No	PARAMETERS	RESULT	UNIT	PROTOCOL
01.110	170000000000000000000000000000000000000			
			1	
				207 242 202 2024
1	Non Methane Hydrocarbons	BDL(DL:0.2)	Mg/Nm ³	SOP-SAS-009:2024
2	Hydrocarbons	BDL(DL:0.1)	Mg/Nm ³	SOP-SAS-010:2024
_	Tiyarooarbono			
3	Olefins	BDL(DL: 0.1)	µg/Nm ³	SOP-SAS-11:2024
ا ع	Olellis	DDL(DL . 0.1)	P9'''''	er energy (letter)
			End of Pond	ort .

End of Report

for SANTHOME ENVIRO SERVICES

A.Kaviyarasi - Technical Manager

NOTE:

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TEST REPORT

NAME OF INDUSTRY

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

ADDRESS

Manali Express Highway,

Sample Ref No : SAS/AS/451/09

Manali, Chennai - 600 068.

Sample Rep No: 451/09

Date Of Sampling : 23.09.2024 Reporting Date : 01.10.2024

SAMPLED ON

: 23.09.2024

STACK IDENTIFICATION NO

: Hydrotreater Stack

PITOT TUBE CONSTANT AMBIENT TEMPERATURE

: 0.1951

GAS VOLUME SAMPLED

: 38° C : 400 liters

SI.No	PARAMETERS	RESULT	UNIT	Limit as per Ministry Of Environment and Forests Notification, 09.06.2002 (MOEF) (mg/m³)	PROTOCOL
1	Flue Gas Temperature	255	°C	- (mozi / (mg/m /	IS:11255
2	Flue Gas Pressure	8.51	mm Hg	-	IS:11255
3	Flue Gas Velocity	8.1	m/s	-	IS:11255
4	Volume of Gas Discharged	4826	Nm³ / hr	-	IS:11255
5	Particulate Matter (PM)	8.0	mg / Nm ³	10(MAX)	IS:11255
6	Sulphur- di- oxide (SO ₂)	13.60	mg / Nm ³	50(MAX)	IS:11255
7	Nitrogen Dioxide (NO ₂)	73.29	mg / Nm ³	350(MAX)	IS:11255
8	Carbon – di - oxide (CO ₂)	6.8	%	-	IS:13270
9	Carbon Monoxide (CO)	38.90	mg / Nm ³	150 (MAX)	IS:13270
10	Oxygen (O ₂)	1.50	%	-	IS:13270

BDL - Below Detectable Limit; DL - Detection Limit

Report Opinion: The above results meets the MOEF notification.

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

End of Report

for SANTHOME ENVIRONSERVICES

A.Kaviyarasi - Technical Manager

NOTE:

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



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TEST REPORT

NAME OF INDUSTRY **ADDRESS**

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

Sample Ref No : SAS/AS/451/09

Manali Express Highway, Manali, Chennai - 600 068.

Sample Rep No : 451/09

Date Of Sampling : 23.09.2024 Reporting Date : 01.10.2024

SAMPLED ON

: 23.09.2024

STACK IDENTIFICATION NO

: Hydrotreater Stack

PITOT TUBE CONSTANT

: 0.1951

AMBIENT TEMPERATURE GAS VOLUME SAMPLED

: 38° C : 400 liters

Discipline- Chemical

SI.No	PARAMETERS	RESULT	UNIT	PROTOCOL
1	Non Methane Hydrocarbons	BDL(DL:0.2)	Mg/Nm ³	SOP-SAS-009:2024
2	Hydrocarbons	BDL(DL:0.1)	Mg/Nm ³	SOP-SAS-010:2024
3	Olefins	BDL(DL: 0.1)	µg/Nm³	SOP-SAS-11:2024
BDL – E	Below Detectable Limit ; DL – De	tection Limit		3.7. 3.7. 2027

End of Report

for SANTHOME ENVIRONS ERVICES

CHENNAL 600 043

Verified & Authorized By A.Kaviyarasi - Technical Manager

NOTE:

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



NAME OF INDUSTRY

ADDRESS

TEST REPORT : TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

Manali Express Highway,

Manali, Chennai - 600 068.

Sample Ref No : SAS/AS/452/09

Date Of Sampling : 23.09.2024 Reporting Date

: 01.10.2024

SAMPLED ON

Sample Rep No: 452/09

: 23.09.2024

STACK IDENTIFICATION NO

: Captive Power Plant (CPP) DG set(LNG Based)

PITOT TUBE CONSTANT

: 0.1951

AMBIENT TEMPERATURE

: 38° C

GAS VOLUME SAMPLED

: 400 liters

SI.No	PARAMETERS	RESULT	UNIT	CPCB Standards (mg/Nm³)	PROTOCOL
1	Flue Gas Temperature	358	°C	-	IS:11255
2	Flue Gas Pressure	18.50	mm Hg	-	IS:11255
3	Flue Gas Velocity	19.41	m/s	-	IS:11255
4	Volume of Gas Discharged	78980	Nm ³ / hr	-	IS:11255
5	Particulate Matter (PM)	1.0	mg / Nm ³	5(MAX)	IS:11255
6	Sulphur- di- oxide (SO ₂)	43.25	mg / Nm ³	50(MAX)	IS:11255
7	Nitrogen Dioxide (NO ₂)	236	mg / Nm ³	250(MAX)	IS:11255
8	Carbon – di - oxide (CO ₂)	8.2	%	-	IS:13270
9	Carbon Monoxide (CO)	42.35	mg / Nm ³	150 (MAX)	IS:13270
10	Oxygen (O ₂)	1.20	%	-	IS:13270

BDL - Below Detectable Limit; DL - Detection Limit

Report Opinion: The above results meets the MOEF notification.

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

End of Report

for SANTHOME ENVIRONSERVICES

A. Kaviyarasi - Technical Manager

NOTE:

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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







TEST REPORT

NAME OF INDUSTRY

ADDRESS

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

: 01.10.2024

Manali Express Highway, Manali, Chennai - 600 068.

Date Of Sampling : 23.09.2024

Sample Ref No : SAS/AS/452/09

Sample Rep No: 452/09

SAMPLED ON

Reporting Date : 23.09.2024

STACK IDENTIFICATION NO : 0

: Captive Power Plant (CPP) DG set (LNG Based)

PITOT TUBE CONSTANT : 0.1951 AMBIENT TEMPERATURE : 38° C GAS VOLUME SAMPLED : 400 liters

Discipline- Chemical

SI.No	PARAMETERS	RESULT	UNIT	PROTOCOL	
1	Non Methane Hydrocarbons	BDL(DL:0.2)	Mg/Nm ³	SOP-SAS-009:2024	
2	Hydrocarbons	BDL(DL:0.1)	Mg/Nm ³	SOP-SAS-010:2024	
3	Olefins	BDL(DL: 0.1)	μg/Nm³	SOP-SAS-11:2024	

BDL - Below Detectable Limit; DL - Detection Limit

End of Report

for SANTHOME ENVIRONMENTES

Verified & Authorized By

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A.Kaviyarasi - Technical Manager

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TEST REPORT

NAME OF INDUSTRY

ADDRESS

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

Manali Express Highway,

Manali, Chennai - 600 068.

Sample Ref No : SAS/AS/314/09

SAMPLED ON

Date Of Sampling : 23.09.2024 Reporting Date

: 01.10.2024

Sample Rep No: 314/09

: 23.09.2024

STACK IDENTIFICATION NO

: Boiler Stack

PITOT TUBE CONSTANT AMBIENT TEMPERATURE

: 0.1951 : 38° C

GAS VOLUME SAMPLED

: 400 liters

SI.No	PARAMETERS	RESULT	UNIT	Limit as per Ministry Of Environment and Forests Notification, 09.06.2002 (MOEF) (mg/m³)	PROTOCOL
1	Flue Gas Temperature	176	°C		IS:11255
2	Flue Gas Pressure	2.20	mm Hg	-	IS:11255
3 .	Flue Gas Velocity	3.10	m/s	-	IS:11255
4	Volume of Gas Discharged	10980	Nm³ / hr	-	IS:11255
5	Particulate Matter (PM)	6.50	mg / Nm ³	10(MAX)	IS:11255
6	Sulphur- di- oxide (SO ₂)	13.90	mg / Nm ³	50(MAX)	IS:11255
7	Nitrogen Dioxide (NO ₂)	79.0	mg / Nm ³	350(MAX)	IS:11255
8	Carbon – di - oxide (CO ₂)	1.50	%	-	IS:13270
9	Carbon Monoxide (CO)	44.50	mg / Nm ³	150 (MAX)	IS:13270
10	Oxygen (O ₂)	2.20	%	-	IS:13270

BDL - Below Detectable Limit; DL - Detection Limit

Report Opinion: The above results meets the MOEF notification.

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

End of Report

for SANTHOME ENVIRO SERVICES

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A.Kaviyarasi - Technical Manager



TEST REPORT

NAME OF INDUSTRY **ADDRESS**

: TAMILNADU PETROPRODUCTS LIMITED(LAB PLANT)

CHENNAL

600 043

Manali Express Highway,

Sample Ref No : SAS/AS/314/09

Manali, Chennai - 600 068.

Sample Rep No : 314/09

Date Of Sampling : 23.09.2024 : 01.10.2024

SAMPLED ON

Reporting Date

: 23.09.2024

STACK IDENTIFICATION NO PITOT TUBE CONSTANT

: Boiler Stack

: 0.1951

AMBIENT TEMPERATURE

: 38° C

GAS VOLUME SAMPLED

: 400 liters

Discipline- Chemical

SI.No	PARAMETERS	RESULT	UNIT	PROTOCOL
1	Non Methane Hydrocarbons	BDL(DL:0.1)	Mg/Nm ³	SOP-SAS-009:2024
2	Hydrocarbons	BDL(DL:0.1)	Mg/Nm ³	SOP-SAS-010:2024
			End of Report	

for SANTHOME ENVIRO SERVICES

A.Kaviyarasi - Technical Manager

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Sam	ple Ref No. :SAS/W/315/09		TEST REPOR		
				Report No.	:315/09
	The second secon	ADU PETROF	PRODUCTS LIMITED	Report Date	: 01.10.2024
ADD	Marian	Express Highwa	ay,	Page: 1 of 5	
Sam	ple Description :Effluen	Chennai - 600	068.		
		1000000		Received On	: 23.09.2024
Cuet		3.09.2024		Commenced On	: 23.09.2024
		dated on 23.09.2	2024	Completed On	: 01.10.2024
SI.	ple Mark : ETP- I	nlet			
No	DADAMETERS				TEST METHOD
	PARAMETERS	Unit	RESULTS		
	pline: Chemical				
	cides				
1	Alachlor	mg/l	BDL		SOP/SAS/ 012/2024
			(DL:0.0001)		30F/3A3/ U12/2024
2	Aldrin	mg/l	BDL		COD/CAC/ 040/0004
		9	(DL:0.0001)		SOP/SAS/ 012/2024
3	Alpha BHC	mg/l	BDL		000/010/010/01
	**************************************	g/.	(DL:0.0001)		SOP/SAS/ 012/2024
4	Atrazine	mg/l	BDL		
		l mg/i			SOP/SAS/ 012/2024
5	Beta BHC	mg/l	(DL:0.0001) BDL		
	2010	mg/i	A STATE OF THE STA		SOP/SAS/ 012/2024
6	Butachlor		(DL:0.0001)		
Ü	Bataonio	mg/l	BDL		SOP/SAS/ 012/2024
7	Chloropyrifos	- "	(DL:0.0001)		
•	Chloropythos	mg/l	BDL		SOP/SAS/ 012/2024
8	Delta BHC		(DL:0.0001)		
O	Della DITO	mg/l	BDL		SOP/SAS/ 012/2024
0	Diolekin	N. Carlotte	(DL:0.0001)		
9	Dieldrin	mg/l	BDL		SOP/SAS/ 012/2024
10	5.0		(DL:0.0001)		Contraction
10	Deltamethrin	mg/l	BDL		SOP/SAS/ 012/2024
			(DL:0.0001)		
11	Endosulfan alpha	mg/l	BDL		SOP/SAS/ 012/2024
			(DL:0.0001)		001 /0/10/ 012/2024
12	Endosulfan Beta	mg/l	BDL		SOP/SAS/ 012/2024
			(DL:0.0001)		001/3A3/012/2024
			End of Page 1		

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

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PARAMETERS	Unit	RESULTS	TEST METHOD
Endosulfan Sulfate	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	00.707.0701272024
Ethion	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	00.10/10/10/2024
Gamma BHC	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	30.707.07.0722224
Malathion	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	001/0/20101212024
o,p'-DDD	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	0017070101212024
o,p'-DDE	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	100 Esta 10 Est
o,p'-DDT	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	
p,p'-DDD	mg/l	BDL	SOP/SAS/ 012/2024
1005		(DL:0.0001)	
p,p'-DDE	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	
p,p'-DDT	mg/l	BDL	SOP/SAS/ 012/2024
December		(DL:0.0001)	
Parathion-methyl	mg/l		SOP/SAS/ 012/2024
Phorato			
riiorate	mg/i		SOP/SAS/ 012/2024
		(DL:0.0001)	
	Endosulfan Sulfate Ethion Gamma BHC Malathion	Endosulfan Sulfate mg/l Ethion mg/l Gamma BHC mg/l Malathion mg/l o,p'-DDD mg/l o,p'-DDT mg/l p,p'-DDD mg/l p,p'-DDE mg/l p,p'-DDE mg/l p,p'-DDT mg/l p,p'-DDT mg/l p,p'-DDT mg/l p,p'-DDT mg/l p,p'-DDT mg/l p,p'-DDT mg/l	Endosulfan Sulfate mg/l BDL (DL:0.0001) Ethion mg/l BDL (DL:0.0001) Gamma BHC mg/l BDL (DL:0.0001) Malathion mg/l BDL (DL:0.0001) o,p'-DDD mg/l BDL (DL:0.0001) o,p'-DDE mg/l BDL (DL:0.0001) p,p'-DDT mg/l BDL (DL:0.0001) p,p'-DDE mg/l BDL (DL:0.0001) p,p'-DDT mg/l BDL (DL:0.0001) Parathion-methyl mg/l BDL (DL:0.0001)

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PARAMETERS	Unit	RESULTS	TEST METHOD
2,4-D	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	3 1 1 3 1 3 1 2 3 2 4
Isoproturon	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	
Malaoxon	mg/l	BDL	SOP/SAS/ 012/2024
	-	(DL:0.0001)	,
Methyl Paraoxon	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	00170710701272024
Methyl Parathion	mg/l	BDL	SOP/SAS/ 012/2024
		(DL:0.0001)	331737137372524
Monocrotophos	mg/l	BDL	SOP/SAS/ 012/2024
DI COM		(DL:0.0001)	
Phorate Sulfone	mg/l	BDL	SOP/SAS/ 012/2024
DI 1 0 K 1		(DL:0.0001)	
Phorate Sulfoxide	mg/l	BDL	SOP/SAS/ 012/2024
Araonia			
Arsenic	mg/l	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	USEPA 200.8
Cadminus			Revision 5.4:1994
Cadmium	mg/l		USEPA 200.8
Characteristics			Revision 5.4:1994
Chromium	mg/l		USEPA 200.8
6			Revision 5.4:1994
Copper	mg/l	5000000000	USEPA 200.8
			Revision 5.4:1994
	*	End of Page 3	
	2,4-D Isoproturon Malaoxon	2,4-D mg/l Isoproturon mg/l Malaoxon mg/l Methyl Paraoxon mg/l Methyl Parathion mg/l Monocrotophos mg/l Phorate Sulfone mg/l Phorate Sulfoxide mg/l Arsenic mg/l Cadmium mg/l Chromium mg/l	2,4-D mg/l BDL (DL:0.0001)

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0/10			TEAT METHOD
DADAMETERS	Unit	DECILI TO	TEST METHOD
	100000000000000000000000000000000000000		
Nickei	mg/l		USEPA 200.8
		(DL:0. 1)	Revision 5.4:1994
Selenium	mg/l	BDL	USEPA 200.8
		(DL:0.005)	Revision 5.4:1994
Zinc	mg/l	BDL	USEPA 200.8
		(DL:0.1)	Revision 5.4:1994
Ammonia as NH3	mg/l	1.50	IS:3025 P.34 1988 R.2009
Ammonical Nitrogen as NH3-N	mg/l	52.0	IS:3025 P.34 1988 R.2009
Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C	mg/l	400	IS: 3025 P. 44 1993 R. 2009
Boron as B	mg/l	0.50	IS: 3025 P. 57 2021
Sodium as Na	mg/l	110	IS 3025 P.45 1993
Chemical Oxygen Demand(COD)	mg/l	1500	IS 3025 P.58. 2006
Chloride as Cl	mg/l	335	IS 3025 P.32. 1988
Cyanide as CN	mg/l	BDL (DL:0.01)	IS 3025 P.27. 1986
Fluorides as F	mg/l	0.60	APHA 24 th Edn :2023 4500 D ⁻ F
	PARAMETERS Nickel Selenium Zinc Ammonia as NH3 Ammonical Nitrogen as NH3-N Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C Boron as B Sodium as Na Chemical Oxygen Demand (COD) Chloride as Cl	PARAMETERS Nickel Nickel Selenium Mg/I Zinc Mg/I Ammonia as NH3 Mg/I Ammonical Nitrogen as NH3-N Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C Boron as B Sodium as Na Chemical Oxygen Demand(COD) Chloride as Cl' Mg/I Cyanide as CN Mg/I Mg/I	PARAMETERS Unit RESULTS Nickel mg/l BDL (DL:0. 1) Selenium mg/l BDL (DL:0.005) Zinc mg/l BDL (DL:0.1) Ammonia as NH3 mg/l 1.50 Ammonical Nitrogen as NH3-N mg/l 52.0 Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C mg/l 400 Boron as B mg/l 0.50 Sodium as Na mg/l 110 Chemical Oxygen Demand(COD) mg/l 1500 Chloride as Cl ⁻ mg/l 335 Cyanide as CN mg/l BDL (DL:0.01)

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SI.				TEST METHOD
No	PARAMETERS	Unit	RESULTS	
49	Free Residual Chlorine	mg/l	BDL (DL:0.1)	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	85.0	IS 3025 P.39 2021
52	pH value @25°C	mg/l	6.6	IS:3025: P.11:2022
53	Phenolic Compound	mg/l	Nil	IS 3025:P.43:1992
54	Dissolved Phosphate as P	mg/l	0.65	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	115	IS 3025 P.24 1986
57	Sulphide as S2 ⁻	mg/l	1.50	IS 3025 P.29 1986
58	Temperature	°C	27.0	IS 3025 P.09 1984
59	Total dissolved solids @ 180°C	mg/l	1320	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	110	IS 3025 P.17 1984

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LISTO	MER NAME : TAMIL	NADU PETROPR	ODUCTS LIMITED	Report Date : 01.10.202	24	
DDRE		i Express Highway		Page: 1 of 5		
ODIN		i, Chennai - 600 06				
Sample		nt Water		Received On : 23.09.2024		
Sample Drawn By /Date :SAS/23.09.2024				Commenced On : 23.09.20		
	, , , , , , , , , , , , , , , , , , , ,	dated on 23.09.20)24	Completed On : 01.10.2	024	
	e Mark : ETP-					
Sample	e Ref No. :SAS/W/315/09			Report No. :315/09		
ampi	e Nervoc/ c/ v//e le/ce					
SI.				Tolerance limits for	TEST METHOD	
No	PARAMETERS	Unit	RESULTS	Treated Outlet as per TNPCB		
Discip	line: Chemical	1	#			
estic	ides				SOP/SAS/ 012/2024	
1	Alphamethrin	mg/l	BDL	Absent	SOP/SAS/ 012/2024	
	(DL:0.0001)		SOP/SAS/ 012/2024			
2	Cypermethrin	mg/l	BDL	Absent	SOP/SAS/ 012/2024	
			(DL:0.0001)	Alicant	SOP/SAS/ 012/2024	
3	Deltamethrin	mg/l	BDL	Absent	30F/3A3/ 012/2024	
			(DL:0.0001)	Alexant	SOP/SAS/ 012/2024	
4	Permethrin	mg/l	BDL	Absent	30F/3A3/ 012/2024	
			(DL:0.0001)	0.01	USEPA 200.08 REV 1994	
5	Mercury	mg/l	BDL	0.01	03EFA 200.00 NEV 1004	
			(DL:0.01)	0.4	USEPA 200.08 REV 1994	
6	Lead	mg/l	BDL	0.1	USEFA 200.00 NEV 1004	
			(DL:0.1)	0.0000004	IS 14194(Part 2) 1994	
7	Alpha Emitters	Microcurie/	BDL	0.000001	15 14 194(Fall 2) 1994	
		ml	(DL:0.000000001)	0.0000004	IS 14194(Part 1) 1994	
8	Beta Emitters	Microcurie/	BDL	0.000001	15 14 194(Part 1) 1994	
		ml	(DL:0.000000001)			
			End of Page SANTHOME ENVIRO	1		

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A.Kaviyarasi - Technical Manage







Samp	ole Ref No. :SAS/W/316/09			Report No. :316/09	
CUS	TOMER NAME : TAMILNA	ADU PETROP	RODUCTS LIMITED	Report Date : 01.10.202	A
ADDI	ADDRESS Manali Express Highway,			Page: 1 of 5	4
	Manali, Chennai - 600 068.			rage. 1015	
Samp	ole Description :Effluent		Received On : 23.09.202	24	
	ole Drawn By /Date :SAS/23	.09.2024		Commenced On : 23.09.20	
Custo	omer's Reference :Letter d	ated on 23.09.2	2024	Completed On : 01.10.20	
Sample Mark : ETP - Outlet				. 01.10.20.	24
SI.				Tolerance limits for	TEST METHOD
No	PARAMETERS	Unit	RESULTS	Treated Outlet as per	ILST WETHOD
			1.000 to 2000 and 20	TNPCB	
Disci	pline: Chemical				
Pesti	cides				
1	Alachlor	mg/l	BDL	Absent	COD/040404045
	50000000000000000000000000000000000000	g	(DL:0.0001)	Absent	SOP/SAS/ 012/2024
2	Aldrin	mg/i	BDL	Absent	200/040/040
			(DL:0.0001)	Absent	SOP/SAS/ 012/2024
3	Alpha BHC	mg/l	BDL	Absent	000/040/040/0
			(DL:0.0001)	Absent	SOP/SAS/ 012/2024
4	Atrazine	mg/l	BDL	Absent	000/040/040/000
			(DL:0.0001)	Absent	SOP/SAS/ 012/2024
5	Beta BHC	mg/l	BDL	Absent	COD/CAC/ 040/000
			(DL:0.0001)	Absent	SOP/SAS/ 012/2024
6	Butachlor	mg/l	BDL	Absent	000/040/040/000
			(DL:0.0001)	Absent	SOP/SAS/ 012/2024
7	Chloropyrifos	mg/l	BDL	Absent	SOP/SAS/ 012/2024
	100		(DL:0.0001)	/ NOGIIL	30F/3A3/ 012/2024
8	Delta BHC	mg/l	BDL	Absent	SOP/SAS/ 012/2024
			(DL:0.0001)	, 1000111	30F/3A3/ 012/2024
9	Dieldrin	mg/l	BDL	Absent	SOP/SAS/ 012/2024
			(DL:0.0001)	, 1000111	00F10A01 01212024
10	Deltamethrin	mg/l	BDL	Absent	SOP/SAS/ 012/2024
			(DL:0.0001)	, 1300116	00F10A31 01212024
11	Endosulfan alpha	mg/l	BDL	Absent	SOP/SAS/ 012/2024
			(DL:0.0001)	, wooding	30F/3A3/ U12/2024
12	Endosulfan Beta	mg/l	BDL	Absent	SOP/SAS/ 012/2024
			(DL:0.0001)	Absolit	30F/3A3/ 012/2024
			End of Page 1		

A. Ko.

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13	Endosulfan Sulfate	mg/l		TNPCB	
			BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
14	Ethion	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
15	Gamma BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
16	Malathion	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
17	o,p'-DDD	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
18	o,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
19	o,p'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
20	p,p'-DDD	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
21	p,p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
22	p,p'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
23	Parathion-methyl	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
24	Phorate	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024

End of Page 2
for SANTHOME ENVIRO SERVICES

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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/SAS/ 012/2024
26	Isoproturon	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
27	Malaoxon	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
28	Methyl Paraoxon	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
29	Methyl Parathion	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
30	Monocrotophos	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
31	Phorate Sulfone	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
32	Phorate Sulfoxide	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
33	Arsenic	mg/l	BDL (DL:0.005)	Absent	USEPA 200.8 Revision 5.4:1994
34	Cadmium	mg/l	BDL (DL:0.01)	Absent	USEPA 200.8 Revision 5.4:1994
35	Chromium	mg/l	BDL (DL:0.1)	Absent	USEPA 200.8 Revision 5.4:1994
36	Copper	mg/l	BDL (DL:0.01)	Absent	USEPA 200.8 Revision 5.4:1994

End of Page 3
for SANTHOME ENVIRO SERVICES

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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	0.5	5	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□	mg/l	15.0	30	IS: 3025 P. 44 1993 R. 2009
43	Boron as B	mg/l	BDL (DL:0.1)	2	IS: 3025 P. 57 2021
44	Sodium as Na	mg/l	68.0	-	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	290	1000	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	0.40	2	APHA 24 th Edn :2023 4500 D'F

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SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
49	Free Residual Chlorine	mg/l	Nil	-	IS 3025 P.26 2021
50	Hexavalent Chromium as Cr6+	mg/l	Nil	-	IS 3025 P.52 2003
51	Oil and grease	mg/l	Nil	10	IS 3025 P.39 2021
52	pH value @25°C	mg/l	8.0	6.5 to 8.5	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	BDL (DL: 0.1)	5.0	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	102	1000	IS 3025 P.24 1986
57	Sulphide as S2	mg/l	BDL (DL : 1.0)	2	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	860	2100	IS 3025 P.16 1984
60	Total Kjeldahl Nitrogen as N	mg/l	92.0	100	IS:3025 P.34 1988 R.2009
61	Total suspended Solids @105°C	mg/l	65.0	100	IS 3025 P.17 1984

End of Page 5 for SANTHOME ENVIRO SERVICES

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			TEST REPORT	Т	
	ole Ref No. :SAS/W/316/09		Report No. :316/09		
ADDI	RESS Manali E Manali,	ADU PETROP Express Highwa Chennai - 600	Report Date : 01.10.20 Page: 1 of 5	024	
Samp Custo Samp	The state of the s	.09.2024 ated on 23.09.	2024	Received On : 23.09.2 Commenced On : 23.09.2 Completed On : 01.10.2	024
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
Discip	oline: Chemical				
Pesti	ides				
1	Alphamethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
2	Cypermethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
3	Deltamethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
4	Permethrin	mg/l mg/l	AND ARREST CONTROL TO STATE OF THE STATE OF	Absent Absent	SOP/SAS/ 012/2024 SOP/SAS/ 012/2024
4	Permethrin Mercury		(DL:0.0001) BDL		SOP/SAS/ 012/2024
5	Permethrin Mercury Lead	mg/l	(DL:0.0001) BDL (DL:0.0001) BDL	Absent	SOP/SAS/ 012/2024 USEPA 200.08 REV 1994
4	Permethrin Mercury	mg/l	(DL:0.0001) BDL (DL:0.0001) BDL (DL:0.01) BDL	Absent 0.01	

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	- (1) OA OAN (0.17/00)		EST REPORT	047/00	
	e Ref No. :SAS/W/317/09		Report No.	:317/09	
NAME ADDR	Manali Chennai-600	nway,	Report Date Page: 1 of 3	:01.10.2024	
Sampl	Sample Description : Water Sample Drawn By/ Date :Customer11.09.2024 Customer's Reference : Letter Dated on 11.09.2024			:11.09.2024 On :11.09.2024 On :01.10.2024	
Sampl	e Mark : Bore Well Wate	r -1			
SI.	PARAMETERS	RESULTS	IS 105	500:2012	TEST METHOD
No			Acceptable Limit	Permissible Limit	
1	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	7.95	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	Salinity	1352	NA	NA	APHA 24 th Edn :2023 2520 B
6	Total Dissolved Solids (mg/l)	1850	500	2000	IS 3025:P.16:1984:R.2012
7	Total Suspended Solids	65.0	-	_	IS:3025: P.17:1984:R.2012
8	ElectricaL Conductivity at 25°C	2720	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-Al E
10	Taste	Agreeable	Agreeable	Agreeable	IS3025 P-8:1 984
11	BOD at 27°C for 3 days (mg/l)	2.0	NA	NA	IS: 3025 P. 44 1993 R. 2009
12	COD (mg/l)	20.0	NA	NA	APHA 24 th Edn :2023 5220 B
13	Sodium as Na (mg/l)	350	NA	NA	IS 3025 P-45 :1993
13	Sodium as Na (mg/l)	for SANTHOME		CES	IS 3025 P-45 :1993

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Sample Ref No. :SAS/W/317/09			Report No. :317/09				
			Report Date :01.	.10.2024			
			Page :2	of 3			
SI.	PARAMETERS	PARAMETERS		500:2012	TEST METHOD		
No		RESULTS	Acceptable Limit	Permissible Limit			
14	Turbidity (NTU)	4.0	1.0	5.0	IS 3025 (Part 10) : 1984		
15	Temperature °C	27.0	NA	NA	IS 3025 P.09 1984		
16	Chlorides as Cl(mg/l)	820	250	1000	APHA 24 th Edn :202 4500 Cl ⁻ B		
17	Copper as Cu (mg/l)	0.35	0.05	1.5	APHA 24 th Edn :2023 3500-Cu B		
18	Fluoride as F (mg/l)	1.20	1.0	1.5	APHA 24 th Edn :2023 4500-F D		
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)	0.70	1.0	No Relaxation	APHA 24 th Edn :2023 3500 Fe B		
21	Magnesium as Mg (mg/l)	72.0	30.0	100	APHA 24 th Edn :2023 2340 C		
22	Total Arsenic as As (mg/l)	BDL (DL=0.01)	0.01	No Relaxation	APHA 24 th Edn :2023 3500-As		
21	Cadmium as Cd (mg/l)	BDL (DL=0.001)	0.003	No Relaxation	APHA 24 th Edn :2023 3500-Cd		
22	Nitrate as NO ₃ (mg/l)	BDL (DL=0.1)	45.0	No Relaxation	IS 3025 P.34 1988 R.2009		
23	Total Chromium as Cr(mg/l)	BDL (DL=0.01)	0.05	No Relaxation	APHA 24 th Edn :2023 3500 Cr		
24	Lead as Pb (mg/l)	BDL (DL=0.005)	0.01	No Relaxation	APHA 24 th Edn :2023 3500 Pb B		
25	Silver as Ag(mg/l)	BDL (DL=0.01)	0.01	No Relaxation	APHA 24 th Edn :2023 3500 Ag		
	=Below Detectable Limit DL= De	tection Limit					
	- DOTOTT DOTOTTICAL -		- CALL	HANNOFO			

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TEST REPORT - ADDITIONAL SHEET

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Samp	le Ref No. :SAS/W/317/09		Report No. :317/09				
			Report Date	:01.10.2024			
				: 3 of 3			
SI.	PARAMETERS	RESULTS	IS 10500:2012 RESULTS		TEST METHOD		
No			Acceptable Limit	Acceptable Limit			
26	Sulphates as SO ₄ (mg/l)	210	200	400	APHA 24 th Edn :2023 4500 SO ₄		
27	Mercury as Hg (mg/l)	BDL (DL=0.001)	0.001	No Relaxation	APHA 24 th Edn :2023 3500-F		
28	Total Alkalinity as CaCO ₃ (mg/l)	245	200	600	APHA 24 th Edn :2023 2320		
29	Total Hardness as CaCO ₃ (mg/l)	420	200 600		APHA 24 th Edn :2023 2340		
30	Zinc as Zn (mg/l)	BDL (DL=0.01)	5.0 15.0		APHA 24 th Edn :2023 3500-Zn		
31	Calcium as Ca (mg/l)	110	75.0 150		APHA 24 th Edn :2023 3500 - Ca		
32	Manganese as Mn(mg/l)	BDL(DL: 0.01)	0.1	0.30	APHA 24 th Edn :2023 3500-Mn		
		MICROBIOLO	 GICAL EXAMII	NATION			
SI. No	PARAMETERS	RESULTS	IS 10500: 20	rement as per 12 Second revisio ptable Limit)	n TEST METHOD		
33	Total Coliforms (MPN / 100ml)	Absent	60000000000 900000000	be detectable in ny100 ml	IS:1622-1981 Amd.4 RA 2012		
34	E.coli (MPN / 100ml)	Absent	STANDARD SALES	be detectable in ny100 ml	IS:1622-1981 Amd.4 RA 2012		
	1	for SANTHOM	E ENVIRO SER	RVICES			
		Verified	& Authorized B	y CHENN	IRO SER		

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Sample	e Ref No. :SAS/W/318/09	\$410.00 P.	Report No.	:318/09	
	OF INDUSTRY: TAMILNADU PETROP	nway,	Report Date Page: 1 of 3	:01.10.2024	
Sampl	e Description : Water		Received On	:11.09.2024	
Sampl Custor	e Drawn By/ Date :Customer11.09.3 mer's Reference : Letter Dated on e Mark : Bore Well Water	11.09.2024	Commenced On Completed On	:01.10.2024	
SI.	PARAMETERS	RESULTS	IS 10	500:2012	IS 10500:2012
No			Acceptable Limit	Acceptable Limit	
1	Color (Hazen Unit)	5.0	5	15.0	APHA 24 th Edn :2023 2120 B
2	Odor	Agreeable	Agreeable	Agreeable	IS 3025 P.5 1983 R.2012
3	pH value @ 25°C	7.84	6.5-8.5	6.5-8.5	APHA 24 th Edn :2023 4500 H ⁺ E
4	Dissolved Oxygen	6.10	NA	NA	IS 3025 P-38:1989
5	Salinity	1240	NA	NA	APHA 24 th Edn :2023 2520 B
6	Total Dissolved Solids (mg/l)	1780	500	500	IS 3025:P.16:1984:R.2012
7	Total Suspended Solids	61.0		_	IS:3025: P.17:1984:R.2012
8	ElectricaL Conductivity at 25°C	2617	NA	NA	IS 3025 P-14:2013
9	Aluminium as Al(mg/l)	BDL (DL:0.1)	0.03	0.03	APHA 24 th Edn :2023 3500-Al E
10	Taste	Agreeable	Agreeable	Agreeable	IS3025 P-8:1 984
11	BOD at 27°C for 3 days (mg/l)	2.0	NA	NA	IS: 3025 P. 44 1993 R. 2009
12	COD (mg/l)	20.0	NA	NA	APHA 24 th Edn:2023 5220 B
13	Sodium as Na (mg/l)	350	NA ENVA	NA	IS 3025 P-45 :1993

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		TEST REI	PORT – ADDITIO		
Sam	ple Ref No. :SAS/W/318/09	5 38 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Report No. :3		
			Report Date :0	1.10.2024	
			Page : 2	2 of 3	
			IS 10500:2012		
SI.	PARAMETERS				TEST METHOD
No			Acceptable	Permissible	
		RESULTS	Limit	Limit	
		3.0	1.0	5.0	
14	Turbidity (NTU)				IS 3025 (Part 10) : 1984
	Temperature °C	27.0	NA	NA	IS 3025 P.09 1984
15					
16	Chlorides as Cl(mg/l)	914	250		APHA 24 th Edn :2023 4500 Cl ⁻ B
				1000	
17	Copper as Cu (mg/l)	0.35	0.05	1.5	APHA 24 th Edn :2023 3500-Cu B
18	Fluoride as F (mg/l)	0.40	1.0	1.5	APHA 24 th Edn :2023 4500-F D
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)	0.82	1.0	No	APHA 24 th Edn :2023 3500 Fe B
				Relaxation	
21	Magnesium as Mg (mg/l)	93.0	30.0	100	APHA 24 th Edn :2023 2340 C
	Total Arsenic as As (mg/l)	BDL	0.01	No	APHA 24 th Edn :2023 3500-As
22		(DL=0.01)		Relaxation	
	Cadmium as Cd (mg/l)	BDL	0.003	No	APHA 24 th Edn :2023 3500-Cd
21	20 220 20	(DL=0.001)		Relaxation	
	Nitrate as NO ₃ (mg/l)	BDL	45.0	No	IS 3025 P.34 1988 R.2009
22		(DL=0.1)		Relaxation	
	TotalChromium as Cr(mg/l)	BDL	0.05	No	APHA 24 th Edn :2023 3500 Cr
23		(DL=0.01)		Relaxation	
	Lead as Pb (mg/l)	BDL	0.01	No	APHA 24 th Edn :2023 3500 Pb B
24	the decrease professional Section (Control of Control o	(DL=0.01)		Relaxation	
	Silver as Ag(mg/l)	BDL	0.01	No	APHA 24 th Edn :2023 3500 Ag
25		(DL=0.01)		Relaxation	
BDL	=Below Detectable Limit DL= De	etection Limit	-	EENVA	
		for SAN	THOME ENVIR	SERVICES	
			- 1/ 119	CHENNA MI	
			1/2	600 043 2	

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		TEST REPORT -	ADDITIONAL SHE		
Sample	e Ref No. :SAS/W/318/09		Report No. :318		
			Report Date :01.		
			Page : 3 0		TEST METHOD
		RESULTS	IS 10500	J:2012	TEST METHOD
SI. No	PARAMETERS	RESULTS	Acceptable Limit	Acceptable Limit	
			200	400	APHA 24 th Edn :2023 4500 SO ₄
26	Sulphates as SO ₄ (mg/l)	210			E
27	Mercury as Hg (mg/l)	BDL (DL=0.001)	0.001	No Relaxation	APHA 24 th Edn :2023 3500-Hg
28	Total Alkalinity as CaCO₃(mg/l)	245	200	600	APHA 24 th Edn :2023 2320B
20		280			AL.
29	Total Hardness as CaCO ₃ (mg/l)		200	600	APHA 24 th Edn :2023 2340 C APHA 24 th Edn :2023 3500-Zn B
30	Zinc as Zn (mg/l)	BDL (DL=0.01)	5.0	15.0	APHA 24"Edn:2023 3500-2n B
31	Calcium as Ca (mg/l)	115	75.0	150	APHA 24 th Edn :2023 3500 - Ca
32	Manganese as Mn(mg/l)	BDL(DL: 0.01)	0.1	0.30	APHA 24 th Edn :2023 3500-Mn B
		MICROBIOLOG	SICAL EXAMINAT	TON	
			Require	ment as per	
SI.	PARAMETERS	RESULTS	IS 10500: 2012	Second revision	TEST METHOD
No				table Limit)	
33	Total Coliforms (MPN / 100ml)	Absent	any	e detectable in 100 ml	IS:1622-1981 Amd.4 RA 2012
34	E.coli (MPN / 100ml)	Absent	Shall not be detectable in IS:1622-1981 Amd.4		
		for SANTHOM	ENVIRO SERVI	CES	
		Verified	CHENNAI CON CONTROL CONTRO	J.	
		A.Kaviyarasi	- Technical Manag	ger	
		Eng	of Page 3		

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			TEST REPORT	Γ	
Samp	e Ref No. :SAS/W/319/09			Report No. :319/09	
25 Parallel State Commencer and Commencer an				Report Date : 01.10.2024 Page: 1 of 5	4
Sample Description :Effluent Water Sample Drawn By /Date :SAS/23.09.2024			Received On : 23.09.2024 Commenced On : 23.09.2024 Completed On : 01.10.2024		
SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per TNPCB	TEST METHOD
	oline: Chemical			<u> </u>	
Pestic	·				
1	Alachlor	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
2	Aldrin	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
3	Alpha BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
4	Atrazine	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
5	Beta BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
6	Butachlor	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
7	Chloropyrifos	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
8	Delta BHC	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
9	Dieldrin	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
10	Deltamethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
11	Endosulfan alpha	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
12	Endosulfan Beta	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
		J	End of Page 1		

for SANTHOME ENVIRO SERVICES

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A.Kaviyarasi - Technical Manager

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hion amma BHC	mg/l mg/l	BDL (DL:0.0001) BDL (DL:0.0001)	Absent Absent	SOP/SAS/ 012/2024
			Absent	
amma BHC	ma/l	(DL.0.0001)	Absent	SOP/SAS/ 012/2024
	lilig/i	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
alathion	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
p'-DDD	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
p'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
o'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
o'-DDD	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
o'-DDE	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
o'-DDT	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
arathion-methyl	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
orate	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
1	rathion-methyl	rathion-methyl mg/l	Mg/I BDL (DL:0.0001) 3'-DDT mg/I BDL (DL:0.0001) rathion-methyl mg/I BDL (DL:0.0001) orate mg/I BDL (DL:0.0001)	o'-DDE mg/l BDL (DL:0.0001) Absent o'-DDT mg/l BDL (DL:0.0001) Absent rathion-methyl mg/l BDL (DL:0.0001) Absent orate mg/l BDL (DL:0.0001) Absent

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SI.	0/10		70	Tolerance limits for	TEST METHOD
No	PARAMETERS	Unit	RESULTS	Treated Outlet as per TNPCB	
25	2,4-D	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
26	Isoproturon	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
27	Malaoxon	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
28	Methyl Paraoxon	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
29	Methyl Parathion	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
30	Monocrotophos	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
31	Phorate Sulfone	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
32	Phorate Sulfoxide	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
33	Arsenic	mg/l	BDL (DL:0.005)	Absent	USEPA 200.8 Revision 5.4:1994
34	Cadmium	mg/l	BDL (DL:0.01)	Absent	USEPA 200.8 Revision 5.4:1994
35	Chromium	mg/l	BDL (DL:0.1)	Absent	USEPA 200.8
36	Copper	mg/l	BDL (DL:0.01)	Absent	Revision 5.4:1994 USEPA 200.8 Revision 5.4:1994

A.Kaviyarasi - Technical Manager

CHENNAI 600 043

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SI. No	PARAMETERS	Unit	RESULTS	Tolerance limits for Treated Outlet as per	TEST METHOD
37	Nickel	mg/l	BDL	TNPCB Absent	USEPA 200.8
			(DL:0. 1)	7.000110	Revision 5.4:1994
38	Selenium	mg/l	BDL	Absent	USEPA 200.8
		AP-05.	(DL:0.005)		Revision 5.4:1994
39	Zinc	mg/l	BDL	Absent	USEPA 200.8
			(DL:0.1)		Revision 5.4:1994
40	Ammonia as NH3	mg/l	BDL	5	IS:3025 P.34 1988 R.2009
			(DL:0.1)		
41	Ammonical Nitrogen as NH3-N	mg/l	BDL	50	IS:3025 P.34 1988 R.2009
			(DL:0.1)		
42	Bio-Chemical Oxygen Demand	mg/l	BDL	30	IS: 3025 P. 44 1993 R. 2009
	(BOD) 3 days @ 27°C		(DL:0.1)		
43	Boron as B	mg/l	BDL	2	IS: 3025 P. 57 2021
			(DL:0.1))		
44	Sodium as Na	mg/l	14.0	-	IS 3025 P.45 1993
45	Chemical Oxygen	mg/l	BDL	250	IS 3025 P.58. 2006
	Demand(COD)		(DL:4.0)		18
46	Chloride as Cl ⁻	mg/l	42.0	1000	IS 3025 P.32. 1988
47	Cyanide as CN	mg/l	BDL	0.2	IS 3025 P.27. 1986
			(DL:0.01)		
48	Fluorides as F	mg/l	BDL	2	APHA 24 th Edn :2023
			(DL:0.1)		4500 D ⁻ F
			End of Page	4	

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SI. No	PARAMETERS	Unit	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: 0.05)	-	IS 3025 P.52 2003
51	Oil and grease	mg/l	BDL(DL: 0.1)	10	IS 3025 P.39 2021
52	pH value @25°C	mg/l	7.20	6.5 to 8.5	IS:3025: P.11:2022
53	Phenolic Compound	mg/l	Nil	1.0	IS 3025:P.43:1992
54	Dissolved Phosphate as P	mg/l	Nil	5.0	APHA 24 th Edn :2023 4500 P-B,D
55	Residual Sodium Carbonate	mEq/L	Nil	NA	IS: 11624 1986
56	Sulphate as SO4 ⁻	mg/l	14.0	1000	IS 3025 P.24 1986
57	Sulphide as S2 ⁻	mg/l	Nil	2	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	165	1-	IS 3025 P.16 1984
60	Total Kjeldahl Nitrogen as N	mg/l	Nil	100	IS:3025 P.34 1988 R.2009
61	Total suspended Solids @105°C	mg/l	Nil	100	IS 3025 P.17 1984
			End of Dogo F		

End of Page 5

for SANTHOME ENVIRO SERVICES

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			TEST REPORT		
Sampl	e Ref No. :SAS/W/319/09		*	Report No. :319/09	
CUST	OMER NAME : TAMILNA	DU PETROP	Report Date : 01.10.20	024	
ADDR	ESS Manali E	xpress Highway	y ,	Page: 1 of 5	
	Manali, (Chennai - 600 0	68.		
Sampl	e Description :Effluent	Water		Received On : 23.09.2	024
	e Drawn By /Date :SAS/23.	09.2024		Commenced On : 23.09.2	.024
Custo		ated on 23.09.2	024	Completed On : 01.10.2	.024
Sampl	le Mark : RO-PEF	RMEATE		~	
SI.				Tolerance limits for	TEST METHOD
No	PARAMETERS	Unit	RESULTS	Treated Outlet as per TNPCB	
Discip	oline: Chemical				
Pestic	cides			·	
1	Alphamethrin	mg/l	BDL	Absent	SOP/SAS/ 012/2024
			(DL:0.0001)		
2	Cypermethrin	mg/l	BDL	Absent	SOP/SAS/ 012/2024
			(DL:0.0001)	8	
3	Deltamethrin	mg/l	BDL	Absent	SOP/SAS/ 012/2024
			(DL:0.0001)		
4	Permethrin	mg/l	BDL	Absent	SOP/SAS/ 012/2024
			(DL:0.0001)		
5	Mercury	mg/l	BDL	0.01	USEPA 200.08 REV 1994
			(DL:0.01)		
6	Lead	mg/l	BDL	0.1	USEPA 200.08 REV 1994
			(DL:0.1)		
7	Alpha Emitters	Microcurie/	BDL	0.000001	IS 14194(Part 2) 1994
		ml	(DL:0.000000001)		
8	Beta Emitters	Microcurie/	BDL	0.000001	IS 14194(Part 1) 1994
		ml	(DL:0.000000001)		
			End of Page 1 SANTHOME ENVIRO		

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CHENNAL 600 043





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Sample	e Ref No. :SAS/W/450/09			Report No.	:450/09
30000000000000000000000000000000000000				Report Date	: 01.10.2024
ADDR	ESS Manali E	xpress Highwa	y,	Page: 1 of 5	
		Chennai - 600 (068.		
	e Description :Effluent			Received On	: 23.09.2024
	,	.09.2024		Commenced On	: 23.09.2024
		ated on 23.09.2	2024	Completed On	: 01.10.2024
	e Mark : RO-RE	JECT			
SI.					TEST METHOD
No	PARAMETERS	Unit	RESULTS		
	line: Chemical				
Pestic	ides				
1	Alachlor	mg/l	BDL		SOP/SAS/ 012/2024
			(DL:0.0001)		
2	Aldrin	mg/l	BDL		SOP/SAS/ 012/2024
			(DL:0.0001)		
3	Alpha BHC	mg/l	BDL		SOP/SAS/ 012/2024
			(DL:0.0001)		
4	Atrazine	mg/l	BDL	- T	SOP/SAS/ 012/2024
			(DL:0.0001)		0001040104010004
5	Beta BHC	mg/l	BDL		SOP/SAS/ 012/2024
			(DL:0.0001)		000/040/040/0004
6	Butachlor	mg/l	BDL (DL-0.0004)		SOP/SAS/ 012/2024
	011		(DL:0.0001) BDL		SOP/SAS/ 012/2024
7	Chloropyrifos	mg/l	(DL:0.0001)		SOP/SAS/ 012/2024
0	Delta BHC	mall	(DL:0.0001) BDL		SOP/SAS/ 012/2024
8	Della DUC	mg/l	(DL:0.0001)		301-13A31 01212024
9	Dieldrin	mg/l	(DL.0.0001) BDL		SOP/SAS/ 012/2024
J	Dielailii	IIIg/I	(DL:0.0001)		001 101 101 101212027
10	Deltamethrin	mg/l	BDL		SOP/SAS/ 012/2024
10		ling/i	(DL:0.0001)		00.7070707272027
11	Endosulfan alpha	mg/l	BDL		SOP/SAS/ 012/2024
A. A.			(DL:0.0001)	n v	
12	Endosulfan Beta	mg/l	BDL		SOP/SAS/012/2024
			(DL:0.0001)		301 / 3/13/ 012/ 2024

for SANTHOME ENVIRO SERVICE

A.Kaviyarasi - Technical Mahager

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SI.				TEST METHOD
No	PARAMETERS	Unit	RESULTS	
13	Endosulfan Sulfate	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
14	Ethion	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
15	Gamma BHC	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
16	Malathion	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
17	o,p'-DDD	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
18	o,p'-DDE	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
19	o,p'-DDT	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
20	p,p'-DDD	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
21	p,p'-DDE	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
22	p,p'-DDT	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
23	Parathion-methyl	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
24	Phorate	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
			End of Page 2	

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CHENNAI 600 043

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SI.				TEST METHOD
No	PARAMETERS	Unit	RESULTS	
25	2,4-D	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
26	Isoproturon	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
27	Malaoxon	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
28	Methyl Paraoxon	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
29	Methyl Parathion	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
30	Monocrotophos	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
31	Phorate Sulfone	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
32	Phorate Sulfoxide	mg/l	BDL	SOP/SAS/ 012/2024
			(DL:0.0001)	
33	Arsenic	mg/l	BDL	USEPA 200.8
			(DL:0.005)	Revision 5.4:1994
34	Cadmium	mg/l	BDL	USEPA 200.8
			(DL:0.01)	Revision 5.4:1994
35	Chromium	mg/l	BDL	USEPA 200.8
			(DL:0.0001)	Revision 5.4:1994
36	Copper	mg/l	BDL	USEPA 200.8
			(DL:0.01)	Revision 5.4:1994
			End of Page 3	

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SI.				TEST METHOD
No	PARAMETERS	Unit	RESULTS	
37	Nickel	mg/l	BDL	USEPA 200.8
			(DL:0. 1)	Revision 5.4:1994
38	Selenium	mg/l	BDL	USEPA 200.8
			(DL:0.005)	Revision 5.4:1994
39	Zinc	mg/l	BDL	USEPA 200.8
			(DL:0.1)	Revision 5.4:1994
40	Ammonia as NH3	mg/l	0.1	IS:3025 P.34 1988 R.2009
41	Ammonical Nitrogen as NH3-N	mg/l	24.0	IS:3025 P.34 1988 R.2009
42	Bio-Chemical Oxygen Demand (BOD) 3 days @ 27°C	mg/l	18.0	IS: 3025 P. 44 1993 R. 2009
43	Boron as B	mg/l	BDL	IS: 3025 P. 57 2021
			(DL:0.1))	
44	Sodium as Na	mg/l	BDL	IS 3025 P.45 1993
		1000	(DL:0.0001)	
45	Chemical Oxygen	mg/l	120.0	IS 3025 P.58. 2006
	Demand(COD)			
46	Chloride as Cl ⁻	mg/l	1925	IS 3025 P.32. 1988
47	Cyanide as CN	mg/l	BDL	IS 3025 P.27. 1986
			(DL:0.01)	
48	Fluorides as F	mg/l	0.60	APHA 24 th Edn :2023
				4500 D ⁻ F
			End of Page 4	a117.

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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	Nil	IS 3025 P.39 2021	
52	pH value @25°C	mg/l	6.62	IS:3025: P.11:2022	
53	Phenolic Compound	mg/l	BDL(DL:0.1)	IS 3025:P.43:1992	
54	Dissolved Phosphate as P	mg/l	0.80	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	485	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	7690	IS 3025 P.16 1984	
60	Total Kjeldahl Nitrogen as N	mg/l	28.0	IS:3025 P.34 1988 R.2009	
61	Total suspended Solids @105°C	mg/l	14.0	IS 3025 P.17 1984	
			End of Page 5		

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Sampl	e Ref No. :SAS/W/450/09		TEST REPORT	Report No. :450/09	
		MADIL DETROP	1	0.4	
		NADU PETROP	Report Date : 01.10.2024		
ADDR		Express Highway	Page: 1 of 5		
200001		i, Chennai - 600 0 nt Water	168.	Received On : 23.09.20	224
			Commenced On : 23.09.2024		
Sample Drawn By /Date :SAS/23.09.2024 Customer's Reference :Letter dated on 23.09.2024				Completed On : 01.10.2024	
		EJECT	.024	Completed On : 01.10.2	024
SI.	T			Tolerance limits for	TEST METHOD
No	PARAMETERS	Unit	RESULTS	Treated Outlet as per TNPCB	
Discip	line: Chemical				
estic					
1	Alphamethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
2	Cypermethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
3	Deltamethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 012/2024
4	Permethrin	mg/l	BDL (DL:0.0001)	Absent	SOP/SAS/ 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)	0.000001	IS 14194(Part 2) 1994
8	Beta Emitters	Microcurie/ ml	BDL (DL:0.000000001)	0.0000001	IS 14194(Part 1) 1994
	1		End of Page 1 SANTHOME ENVIRO		1

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

CHENNAL 600 043

TPL - LAB Plant

Environmental Clearance - Newspaper Advertisement





Tamilnadu Petroproducts Limited

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

PUBLIC NOTICE

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

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

Place: Chennai - 600068

Date: 02.12.2022 Dy. General Manager - HR

English Newspaper – Financial Express dated 03.12.2022





தமிழ்நாடு பெட்ரோப்ராடக்ஸ் லிமிடெட்

பதிவு அலுவலகம் – ஆலை: மணலி எக்ஸ்பிரஸ் ஹைவே, மணலி, சென்னை-600 068. நி.ப. என் : L23200TM1984PLC010931 தொலைபேசி என்: 044-25945500 வலைதளம்: Www.Inpetro.com மின்னஞ்சல்: Secy-legal@tnpetro.com

பொது அறிவிப்பு

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

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

இடம் : சென்னை - 600068 தேதி : 02.12.2022

துணை பொது மேலாளர் - மனிதவளம்

Tamil Newspaper - Makkal Kural dated 02.12.2022

TPL-CER Activities: Smart classroom provided to Village's School







TPL-CER Activities: Rest room & waiting shed provided at Sathankadu







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.























