

**BEFORE THE NATIONAL
GREEN TRIBUNAL, PRINCIPAL
BENCH, NEW DELHI**

**ORIGINAL APPLICATION NO:
606 of 2018**

Compliance of Municipal Solid
Waste Management Rules, 2016 and
Other environmental issues.

**AFFIDAVIT ON BEHALF OF UT
OF PUDUCHERRY**

**SHUBHAM BHALLA
STANDING COUNSEL
GOVERNMENT OF PUDUCHERRY**

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH AT NEW DELHI**

ORIGINAL APPLICATION NO. 606/2018

IN THE MATTER OF: -

Compliance of Municipal Solid Waste Management Rules, 2016 and
Other environmental issues.

NDOH: -27/04/2026

I N D E X

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THROUGH COUNSEL



(SHUBHAM BHALLA)

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DELHI
DATED: 22.04.2026

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH AT NEW DELHI**

ORIGINAL APPLICATION NO. 606/2018

IN THE MATTER OF: -

Compliance of Municipal Solid Waste Management Rules, 2016 and Other environmental issues.

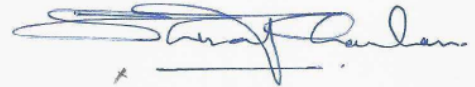
AFFIDAVIT ON BEHALF OF U.T. OF PUDUCHERRY

I, Dr. Sharat Chauhan, S/o. D P S Chauhan, aged 56 years, Chief Secretary, Government of Puducherry, having office at Chief Secretariat, Puducherry. I am well conversant with the facts of the case and competent to affirm this affidavit.

1. That I am the Chief Secretary, Government of Puducherry. I am filing this Affidavit in terms of the order of this Hon'ble Tribunal to file periodical Six Monthly Progress Report.
2. That the Compliance Report-cum-Sixth Six-monthly Progress Report has been prepared in the prescribed format and is being filed along with the present Affidavit in compliance with the order of this Hon'ble Tribunal dated 22.09.2025 concerning the U.T. of Puducherry.


**CHIEF SECRETARY
PUDUCHERRY.**

3. That the contents of the Affidavit and the Sixth Six Monthly Progress Report are based on the record made available to the Deponent and are true to the knowledge of the Deponent.



DEPONENT
CHIEF SECRETARY
PUDUCHERRY.

VERIFICATION: -

I, Dr. Sharat Chauhan, Chief Secretary, Government of Puducherry, the deponent above named do hereby verify and declare that the facts stated in the above paragraphs of my affidavit are true to my knowledge.

Verified at Puducherry on this 22nd day of April, 2026.



DEPONENT
CHIEF SECRETARY
PUDUCHERRY.



SIGNED BEFORE ME
K. Santhanakrishnan
K. SANTHANAKRISHNAN, B.A., LL.B., B.E.
ADVOCATE & NOTARY PUBLIC
GOVERNMENT OF INDIA
Reg. No. 5826/08
No. 26, Second Cross Street,
Chilagar Nagar, Puducherry-605 009
End NO M.S. 1020/99

No. 606/DSTE/NGT/PR/MS/2026 1356
GOVERNMENT OF PUDUCHERRY

Puducherry, the 22 APR 2026

To

The Registrar General
Hon'ble National Green Tribunal
Principal Bench
New Delhi - 110 001.

Sir,

Sub: DSTE-Submission of the Compliance Report -cum-Sixth Six Monthly Progress Report on Solid and Liquid waste management in the U.T. of Puducherry - Reg.

Ref: Order of Hon'ble NGT in O.A. No. 606 of 2018 dated 22.09.2025

In compliance with the Hon'ble National Green Tribunal, Principal Bench, order dated 22.09.2025 in Original Application No. 606/2018, the Compliance Report -cum-Sixth Six Monthly Progress Report on Solid and Liquid waste management in the U.T. of Puducherry is enclosed for kind perusal.

Yours faithfully,



(Dr. Sharat Chauhan, I.A.S.)
Chief Secretary

Copy to:

1. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032.
2. Guard file



Compliance Report-cum-Sixth Six-Monthly Progress Report
on
Solid Waste and Liquid Waste Management

In

(O.A. NO. 606 OF 2018)

Submitted by
Union Territory of Puducherry
April, 2026

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Introduction

In compliance with the order of the Hon'ble National Green Tribunal (NGT), Principal Bench, dated 24.11.2022 in O.A. No. 606 of 2018, pertaining to solid and liquid waste management in the Union Territory of Puducherry, the Government of Puducherry has been regularly submitting six-monthly progress reports. The 5th six-monthly progress report was last filed on 17th September, 2025.

Subsequently, the Hon'ble NGT, vide its order dated 22.09.2025, directed the Government of Puducherry to submit a fresh Action Taken Report on the observations made therein. In compliance with the said directions, the updated status with regard to disposal of legacy waste, solid waste processing, and sewage treatment is furnished below:

2. Solid Waste Management

2.1 a. Observation of the Hon'ble NGT (4[A](I))

“UT Puducherry generates 635.0 TPD of waste as disclosed in Table 3. All the waste is processed, and no gap has been reported in the compliance report. However, there is no disclosure regarding segregation of waste at source and by other establishments, or about its collection and transportation to the processing sites”.

Response/Status

- i The Urban and Rural Local Bodies of the Union Territory of Puducherry are currently generating 790 TPD of solid waste. The entire quantity of waste is being collected on a daily basis through a door-to-door collection system. Adequate transportation arrangements have been deployed to ensure that the collected waste is transported to the designated processing facilities, namely, the Kurumbapet Processing Centre in Puducherry, the Paravaipet Processing Centre in Karaikal, and the Mettacuru Processing Centre in

Yanam. In Mahe all the House holds are having larger backyard and domestic waste is composted. Commercial waste is taken to Material Recovery Facility.

- ii The biodegradable fraction of the municipal solid waste is processed into compost, while the non-biodegradable fraction is converted into Refuse Derived Fuel (RDF) and supplied to cement industries. The inert fraction generated after processing is utilized for filling and levelling of low-lying areas, wherever feasible. The details pertaining to municipal solid waste generation, processing, and disposal are furnished in the format prescribed by the Hon'ble National Green Tribunal (NGT) (Annexure-I). (Page No. 9-13 and Table No.7).
- iii Source segregation was initiated with effect from 1st June, 2025. Despite conducting extensive awareness programmes highlighting the importance of source segregation for scientific solid waste management, the desired level of compliance has not been achieved due to limited public participation. However, at designated transfer/transition points, recyclable plastic waste is being segregated and collected. Further, at the processing facilities, mixed waste is subjected to both mechanical and manual segregation based on its characteristics and size, and is subsequently directed to appropriate processing streams such as composting and Refuse Derived Fuel (RDF) production.
- iv A community driven source segregation project in the boulevard area has been implemented in association with SHG and Non-governmental Organisation. Based on the outcome and effectiveness of the initiative, the programme will be progressively extended to other areas.

2.1 b. Observation of the Hon'ble NGT

“Details of legacy waste, its remediation and disposal of the processed waste including the area recovered from such legacy waste with geo code be provided in the next report”.

- i. Approximately 9.02 lakh metric tons of legacy waste in the Puducherry region have been remediated through bio-mining by M/s. Zigma Global Enviro, Erode, at a total cost of ₹76.66 crore. As a result, about 16 acres of land have been reclaimed at Kurumbapet Processing Centre and are presently being utilized for solid waste processing activities for waste generated in both urban and rural areas of Puducherry Region. (Fig.1,2 & 3 and Pg. No.47-48)
- ii. Currently 97,899 MT of legacy waste is present at the Kurumbapet disposal site. This additional quantity is attributable to the assessment methodology, wherein a uniform density of 0.730 Kg/m³ was adopted without accounting for topographical variations in density. The entire quantity will be disposed through bio-mining within 5 months period. (Fig.4 and Pg. No.48)
- iii. Due to interruptions caused by the North-East monsoon and initial infrastructure development, approximately 94,000 MT of fresh waste remained unprocessed and accumulated at the Kurumbapet processing site, it is expected to be processed within four months. At present, the processing capacity exceeds the quantity of fresh waste generated daily. In order to expedite processing activities, a 30 TPD pyrolysis plant has been installed and is expected to be commissioned by June 2026.
- iv. A total of 89,000 metric tons of legacy waste at Karaikal has been successfully Biomined by M/s. Srinivasa Waste Management Services Ltd., Chennai, at a cost of ₹6.53 crore. Out of the 4.55 acres of land reclaimed, 2.35 acres have been handed over to M/s. HR Square for the establishment of a solid waste processing facility, while the remaining 2.20 acres is proposed to be utilized for processing facilities. (Fig.5&6 and Pg No.49)
- v. The balance quantity of 27,360 metric tons of legacy waste currently available at the Karaikal disposal site will be biomined within a period of 5 months, which will facilitate the reclamation of an additional 0.89 acres of land. (Fig. 7 and Pg No. 50)

- vi. Approximately 25,500 MT of fresh waste remained unprocessed at the Paravaipet processing site in Karaikal due to the same monsoon-related interruptions and is expected to be processed within four months.
- vii. A total of 21,600 metric tons of legacy waste in the Yanam region has been disposed of through biomining by M/s. Ecopie Services Ltd., Hyderabad, at a cost of ₹2.30 crore. An extent of 1.2 acres of land has been reclaimed and is proposed to be utilized for municipal infrastructure. (Fig. 8 and Pg No. 51)
- viii. Processing of solid waste in Mettacuru was halted due to public objection. Processing has been recommenced. As a result, approximately, 3500 MT of fresh waste remained unprocessed at the Mettacuru processing facility. The waste will be processed within two months.
- ix. No legacy waste has accumulated in the Mahe region, as all households are equipped with in-house composting facilities.

3. Liquid Waste Management

3.1 Observation of the Hon'ble NGT (4[B](I))

“Estimated sewage generation in the four Regions is 92.1 MLD and available treatment facilities (STPs and Septic Tanks) are 60 MLD with the gap being 32.1 MLD. Timelines to treat 100% sewage be provided in the next report”.

Response/Status

- i. The Puducherry Urban Region generates 71 MLD of sewage. It is collected and treated in three 17 MLD Sequencing Batch Reactor (SBR)-based STPs and one newly constructed 15 MLD SBR-based STP. Two 2.5 MLD UASB-based STPs are presently under renovation and are expected to be commissioned by June 2026. Consequently,

there will be no gap between sewage generation and treatment capacity in the Puducherry Region. (Annexure-II), (Pg No. 18-22)

- ii. The Mahe region generates 4.5 MLD of sewage. All households are provided with soak pits and septic tanks within their premises, facilitating in-situ sewage treatment. Approximately 0.5 MLD of sewage generated from commercial establishments requires treatment. A work commencement order for the construction of a 0.5 MLD sewage treatment system at R.S. No. 133/1, Mahe Revenue Village, at a cost of ₹5.15 crore, was issued on 22nd August 2025.
- iii. However, the construction of the STP has been delayed due to public objections. A public consultation meeting was held on 30.01.2026 to address the concerns and facilitate resumption of the work. Despite these efforts, public objections persist. Hence, an alternate site has been identified at R.S. No. 122/3 in Mahe Village, and construction will be commenced in June, 2026.

3.2 a. Observation of the Hon'ble NGT (4[B](II))

“In Puducherry, the gap for sewage treatment is 15.0 MLD and this will be managed by constructing a 15.0 MLD STP. After finding that Puducherry has underground sewerage network and out of 76,491 Households, only 549 households are left to be connected, all of them will be connected within two months. Therefore, the next report should disclose full (100%) household connectivity”.

Response/Status

- i. In order to bridge the gap, a 15 MLD Sequencing Batch Reactor (SBR)-based Sewage Treatment Plant has been constructed at Dubrayapet at a cost of ₹28.53 crore and has been commissioned.
- ii. All the 76,491 households in the Puducherry urban area are connected to the underground sewerage system.

3.2 b. Observation of the Hon'ble NGT

“We also direct that the liquid waste management status in the five Panchayats of Puducherry be disclosed”.

Response/Status

- i. In order to treat the greywater generated in the five Commune Panchayats of Puducherry, 10 Decentralized Wastewater Treatment Systems (DEWATS) have been proposed at a cost of ₹4.33 crore. These systems are scheduled to be commissioned by March 2027.
- ii. A work order was issued on 30.12.2025 for the construction of a 3 MLD Faecal Sludge Treatment Plant at Kanuvapet, Villiyannur Commune Panchayat. The work is expected to be completed by March 2027.

3.3 Observation of the Hon'ble NGT (4[B](III))

“In Karaikal, an 11 MLD treatment facility will be commissioned for a trial run. It has been disclosed that a collection system is also provided but no status of household connections has been disclosed. It should be ensured that the entire sewage is brought to STP and nothing is discharged into surface/stormwater drains without tapping those drains. Details of discharge of untreated sewage into sea/other waterbody be provided”.

Response/Status

- i. The Karaikal Urban Region generates 10.6 MLD of sewage. An 11 MLD Sequencing Batch Reactor (SBR)-based Sewage Treatment Plant has been constructed at a cost of ₹28.05 crore. At present, there is no underground drainage system; sewage is collected through 14 drains and conveyed to the newly constructed STP.

- ii. The preparation of the Detailed Project Report (DPR) for the Underground Drainage (UGD) system in the Karaikal region has been entrusted to M/s. Anvaya Construction Consultancy Pvt. Ltd., Gujarat. The UGD system is proposed to be implemented by 2030, upon which all households will be connected to the network.

3.4 Observation of the Hon'ble NGT (4[B](IV))

“We find no progress in sewage treatment in Yanam in spite of continuous listing of this issue before the Tribunal. Timelines for providing STP be provided”.

Response/Status

- i. The construction of a 6 MLD Sewage Treatment Plant in Yanam has commenced at a cost of ₹35.36 crore and is expected to be completed by March 2027.

4. Ring Fence Account

4.1 Observation of the Hon'ble NGT (4[C](I))

“We find that an expenditure of Rs 260.75 crores has been incurred on remediation of legacy waste and setting up of solid and sewage management facilities. We direct that disclosure be made regarding the fund allocations to the Commune Panchayats of the four regions for solid and liquid waste management as well”.

Response/Status:

- i. A separate ring-fenced account was opened on 20.08.2024 at Indian Bank and is being operated by the Department of Science, Technology and Environment. To date, an amount of ₹128.58 crore has been expended from the Ring Fence Account on Solid and Liquid Waste Management. The details are provided in Table 10 of the prescribed format. (Page No.13)

- ii. The same account is also being utilized for solid waste management activities in all the Commune Panchayats located in the Puducherry and Karaikal Regions. Under SBM (G), a total allocation of ₹6.80 crore has been made for the installation of 15 DEWATS (Decentralized Wastewater Treatment Systems). There are no Rural Local Bodies in the Mahe and Yanam Regions.

ANNEXURE-I: Duly filled Hon'ble NGT Prescribed Format

A. Solid Waste Management

(1) Name of ULB	(2) Waste Generation (TPD)*	(3) Composition of Waste (%)			(4) Waste Collected (%)	(5) Waste Transp orted (%)	(6) Final destination of transported waste
		Biodegradable	Dry / Recyclable	Inerts			
Pondicherry Municipality	173	95 MT (54.91 %)	68 MT (39.31 %)	10 MT (5.78 %)	173 MT (100 %)	173 MT (100 %)	1. City Compost for Farmers 2. Debris to Landfill to Real Estate Developers 3. RDF to Cement Factories 4. Light Weight RDF to Shredder Line with Dust Remover for Pyrolysis Feed 5. Recyclables to Vendors
Oulgaret Municipality	161	92 MT (57.14 %)	60 MT (37.27 %)	9 MT (5.59 %)	161 MT (100 %)	161 MT (100 %)	1. City Compost for Farmers 2. Debris to Landfill to 3. Real Estate Developers 4. RDF to Cement Factories 5. Light Weight RDF to Shredder Line with Dust Remover for Pyrolysis Feed 6. Recyclables to Vendors.
Karaikal Municipality	75	40 MT (53.3 %)	30 MT (40 %)	5 MT (6 %)	75 MT (100 %)	75 MT (100 %)	1. City Compost forFarmers 2. Debris to Landfill to Real Estate Developers 3. RDF to Cement Factories 4. Recyclables to Vendors
Yanam Municipality	27	14 MT (51.7 %)	10 MT (37.6 %)	3 MT (11 %)	27 MT (100 %)	27 MT (100 %)	RRP, Mettacuru
Mahe Municipality	12	10 MT (83.5 %)	2 MT (16 %)	-	2 MT (16 %)	2 MT (16 %)	MRF, Pallur
Total	448	251 (56.03%)	170 (37.95%)	27 (6.03%)	438	438	

*As per Weighment Report data

(1) Name of RLB	(2) Waste Generation (TPD)*	(3) Composition of Waste (%)			(4) Waste Collected (%)	(5) Waste Transport ed (%)	(6) Final destination of transported waste
		Biodegradable	Dry / Recyclable	Inerts			
Puducherry Region							
Ariyankuppam	49	22 (44.9%)	19 (38.8%)	8 (16.3%)	49 (100%)	49 (100%)	1. Compost for Farmers 2. Debris to Landfill to Real Estate Developers 3. RDF to Cement Factories 4. Recyclables to Vendors
Bahour	44	20 (45.4%)	17 (38.6%)	7 (15.9%)	44 (100%)	44 (100%)	
Mannadipet	51	23 (45.1%)	20 (39.2%)	8 (15.7%)	51 (100%)	51 (100%)	
Nettapakkam	42	19 (45.2%)	16 (38.1%)	7 (16.6%)	42 (100%)	42 (100%)	
Villianur	73	33 (45.21%)	28 (38.3%)	12 (16.4%)	73 (100%)	73 (100%)	
Total - A	259	117 (45.17%)	100 (38.61%)	42 (16.22%)	259	259	
Karaikal Region							
Kottucherry	11	5 (45%)	4 (36%)	2 (18%)	11 (100%)	11 (100%)	1. Compost for Farmers 2. Debris to Landfill to Real Estate Developers 3. RDF to Cement Factories 4. Recyclables to Vendors
Nedungadu	9	4 (40%)	4 (40%)	2 (20%)	9 (100%)	9 (100%)	
Thirunallar	22	9 (40%)	9 (40%)	4 (18%)	22 (100%)	22 (100%)	
Neravy	18	8 (44%)	7 (38%)	3 (16%)	18 (100%)	18 (100%)	
TR Pattinam	24	9 (37%)	10 (41%)	4 (16%)	24 (100%)	24 (100%)	
Total - B	84	35 (41%)	34 (40%)	15 (17%)	84 (100%)	84 (100%)	
Grand Total (A+B)	343	152 (44.31%)	134 (39.07%)	57 (16.62%)	343	343	

*As per Weighment Report data

7) Waste Processing						
(A) 7.1) Composting (TPD)						
	a) Intake quantity	b) Method adopted	c) Output quantity as Compost	d) Quality	e) Residue and Rejects and Management	f) Utilization of compost
Pondicherry Region (Urban)	187	Windrow Compost	127	N - 0.31 % P- 0.35 % K – 0.46 % TC – 1.21 % C:N ratio - 20:1 (Annexure-IA) (Pg.No.14-15)	4 (Recycle for RDF disposal)	For Agriculture
Pondicherry Region (Rural)	117	Windrow Compost	82	Fit for farming	2 (Recycle for RDF disposal)	For Agriculture
Karaikal Region (Urban)	40	Windrow Compost	28	Fit for farming	2 (Recycle for RDF disposal)	For Agriculture
Karaikal Region (Rural)	35	Windrow Compost	25	Fit for farming	2 (Recycle for RDF disposal)	For Agriculture
Yanam Municipality	14	Windrow Compost	Processing of solid waste was halted due to public objection and recommenced			
Mahe Municipality	10	Pipe compost	7	Fit for home compost	NIL	For in house Plantation
Total	403		269			

B) 7.2) Refuse Derived Fuel (TPD) (ULB)					
	i) Capacity of Plant	ii) Sources of waste for making RDF	iii) RDF Produced	iv) Residue / Reject management (Ton)	vi) Utilization of RDF
Pondicherry Region (Urban)	200 MT	Door to Door Collection, Segregation /MRF screening	137	4	Cement Industries (Annexure-I B) (Pg. No. 16)
Pondicherry Region (Rural)	150 MT	Door to Door Collection, Segregation /MRF screening	100	3	Cement Industries (Pg. No. 16)
Karaikal Region (Urban)	50 MT	Door to Door Collection, Segregation /MRF screening	30	1	Cement Industries (Pg. No. 17)
Karaikal Region (Rural)	50 MT	Door to Door Collection, Segregation /MRF screening	34	1	Cement Industries (Pg. No. 17)
Yanam Municipality	50 MT	Processing of solid waste was halted due to public objection and recommenced.			
Mahe Municipality			2	Nil	Cement Industries

(C) 7.3) Waste to Energy (Thermal / Methanation route) Pyrolysis to be started on 30th June 2024

	a) Plant capacity	b) Daily inputs of feed	c) Sources of waste	d) Output (Energy)	e) Residue / Rejects management	f) Fly ash and Bottom Ash management
Pondicherry & Oulgaret Municipality	30 TPD	30 TPD	From MRF	10 KL	200 LPD Coprocessing	Fly ash bricks

(D) 7.4) Other Processing - Nil

a) Quantity of inputs	b) Quality of inputs	c) Products and it's utilization	d) Residue / Reject management

8. Gap in Waste generation and Processing	Time bound plan to fill up the Gap
Yanam Municipality	24 TPD 7 days

9. Legacy Waste								
1) Number of legacy waste dump sites	2) Quantity of legacy waste reported on..	3) Present quantity of legacy waste (MT)	4) Daily legacy waste being added as unprocessed waste (TPD)	5) Quantification and utilization of out of Bioremediation and bio mining. (MT)				6) gap in legacy waste remediation and time bound plan
				Digest ed material	Plastics	Rubber	Inerts and others	
1 Kurumbapet Puducherry	20.04.2026	97899 (Legacy waste identified after initial assessment) +	Nil	47600	13900	200	17598	5 Months
		94,000 (Accumulated unprocessed waste)						4 Months
1 Paravaipet, Karaikal	20.04.2026	27360 (Legacy waste identified after initial assessment) +	Nil	12200	3800	50	6112	5 Months
		25500 (Accumulated unprocessed waste)						4 Months
1 Mettacuru, Yanam	20.04.2026	Nil	3500 (Accumulated unprocessed waste)	-				2 Months
Total		244759	3500	59800	17700	250	23710	

10. Ring Fence Account				
1) Amount to be ring fenced	2) Whether single dedicated account has been opened	3) Date of opening account	4) Amount utilized	5) Plan of utilization
126 Crore	Yes	20.08.2024	128.58 Crore	Operation of ISWM

ANNEXURE-I A

**NATIONAL AGRO FOUNDATION**

Laboratory Services Division

Anna University Taramani Campus,
CSIR Road, Taramani, Chennai-600113.
India.

+91-44-22542598/+91-90807-11501

labservices@nationalagro.org

www.nationalagro.org

TEST REPORT

Page 1 of 2

Issued To : M/s Greenwarrior No : 14, 4 th Street, K.K Nagar, Manavala Nagar, Tiruvallur, TN.	Sample Description: 500g (approx.) of organic fertilizer sample was received in a sealed polythene cover.
	Sample Drawn By: Customer Customer's Ref.: -
Report Number : NAF/LSD/O-F/71/2023-24 Report Date : 01.04.2024	Sample Received on : 21.03.2024 Analysis Started on : 25.03.2024 Analysis Completed on : 01.04.2024
Lab I.D: NAF/O-F/71	Sample I.D: Sludge Sample
Discipline : Chemical	Group : Fertilizers

Parameter	Unit	Results on As-Is-Basis	Test Method
pH	-	7.65	Biofertilizers and Organic Fertilizers in The Fertilizer (Control) Order 1985, (As Amended upto March 2023) Schedule IV - Part D, Schedule II - Part B -3(V) Methods of Analysis of Soils, Plants, Waters, Fertilisers and Organic manures; Edited by H L S Tandon (FDCA) 2009.
Electrical Conductivity	µS/cm	2900	
Moisture	%	22.99	
Total Nitrogen (Kjeldahl)	%	0.41	
Total Phosphate as P ₂ O ₅	%	0.67	
Total Potash as K ₂ O	%	0.33	
Zinc as Zn	mg/Kg	102.97	
Copper as Cu	mg/Kg	90.81	
Lead as Pb	mg/Kg	81.85	
Chromium as Cr	mg/Kg	17.95	
Cadmium as Cd	mg/Kg	5.78	
Nickel as Ni	mg/Kg	24.59	
Total Organic Carbon	%	18.42	
C:N Ratio	-	45:1	
Particle Size	%	96.90	



TAMIL NADU AGRICULTURAL UNIVERSITY
DIRECTORATE OF CROP MANAGEMENT
COIMBATORE - 641 003

Dr.R.KRISHNAN, Ph.D.,
Professor & Head
Nammazhvar Organic Farming Research Centre

Phone : 0422 6611206
Fax : 0422 6611416
Email : organic@tnau.ac.in

12.03.2025

Sample Analysis Report

Nature of sample : Compost (Dry Solid)
Received from : Green Warrior
No.14, 4th street, K.K.Nagar
Manavalanagar, Tiruvallur – 602 002
Parameters analyzed : As below

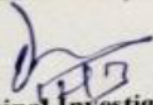
Results

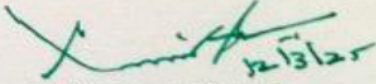
Parameters	Compost	Parameters	Compost
pH (1:2.5 solution)	7.58	Total Zinc (mg kg ⁻¹)	35.00
EC (dS m ⁻¹)	1.32	Total Copper (mg kg ⁻¹)	12.40
Total Organic Carbon (%)	1.21	Total Manganese (mg kg ⁻¹)	14.35
Total Nitrogen (%)	0.31	Lead (mg kg ⁻¹)	1.55
Total Phosphorus (%)	0.35	Cadmium (mg kg ⁻¹)	0.75
Total Potassium (%)	0.46	Nickel (mg kg ⁻¹)	2.30
Total Calcium (mg kg ⁻¹)	264.90	Chromium (mg kg ⁻¹)	8.30
Total Magnesium (mg kg ⁻¹)	60.65	C:N Ratio	4:1
Total Iron (mg kg ⁻¹)	1263.25	-	-

*ND-Not detected

Note : The above results are communicated with the following conditions.

- The results indicate only the actual content of parameters requested by the company
- In no way, this can be claimed as a complete composition / makeup of the sample
- This communication cannot be treated / recommended as a certificate
- Its use for publicity, arbitration or as evidence in legal disputes is strictly forbidden.
- This is the report for the sample given by the Individual / Company directly


Principal Investigator
(VCS)


Professor and Head
(NOFRC)

ANNEXURE IB: Details of RDF Disposed

Puducherry- Urban

Green Warrior - RDF Disposal details - October 2025 to March 2026						
Month	Chettinad Cement, Ariyalur	Chettinad Cement, Andhra	Chettinad Cement, Dindigul	Chettinad Cement, Karaikal	Dalmia Cement, Ariyalur	Grand Total
October	2,001.415				1,233.260	3,234.675
November	2,409.970		63.470	25.480	1,690.670	4,189.590
December	3,301.529				19.960	3,321.489
January	2,447.780	42.550				2,490.330
February	588.720				1,361.280	1,950.000
March	2,202.400				1,709.530	3,911.930
Total (MT)	12,951.814	42.550	63.470	25.480	6,014.700	19,098.014

Puducherry – Rural

Hr Square Pvt Ltd - RDF Disposal Details - October 2025 to March 2026		
Month	RDF Disposal Quantity (in MTs)	Cement Units
October	481.255	JSW Cement Limited, Andra Pradesh
November	659.190	JSW Cement Limited, Andra Pradesh
December	293.675	JSW Cement Limited, Andra Pradesh
January	-	JSW Cement Limited, Andra Pradesh
February	296.035	JSW Cement Limited, Andra Pradesh
March	156.315	JSW Cement Limited, Andra Pradesh
Total (MT)	1,886.470	

Karaikal (Urban & Rural)

Month	RDF Disposal Quantity (in MTs)	Cement Unit
October	512.30	JSW Cements, Nandyal
November	347.34	JSW Cements, Nandyal
December	232.89	JSW Cements, Nandyal
January	212.06	JSW Cements, Nandyal
February	383.69	JSW Cements, Nandyal
March	244.27	JSW Cements, Nandyal
Total	1932.55	

ANNEXURE-II

B. Sewage Management

(A) Name of ULB	(B) Sewage status and estimation and measurement	(C) Sewage conveyance/sewers		
		*total sewage generation per day (in MLD) (1)	Targeted household to be connected to sewers (2)	Household connected (3)
Puducherry	71	76,491	76,491	-
Karaikal	10.6	No UGD system	-	4 year
Mahe	4.5	UGD system is not feasible	-	-
Yanam	6	No UGD system	-	4 year
Total	92.1		76,491	

(Estimation is based on 80% of lpcd water supplied)

(D)Drains					
Sewage and sullage flowing in open drains (storm water drains/ concretised drains/ unlined/ Katcha drains) (No. of drains) (5)	Flow in each drain (MLD) (6)	Quality / characteristics of effluent (7)	Quantity of industrial effluent discharged in drain (MLD) (8)	Final point of Discharge of drain (9)	Time bound action plan to prevent sewage discharge into drain (10)
Puducherry					
1) Uppar drain	15.14	Analysis reports placed in Annexure-III (Pg.No.23-25)	Nil	Sea	3 years
2) Karuvadikuppam drain	8.64				
3) Grand canal	1.38				
4) Olandai Drain	10.36			Through the lagoon reaches the sea.	

Karaikal					
Sewage and sullage flowing in open drains (storm water drains/ concretised drains/ unlined/ Katcha drains) (No. of drains)	Flow in each drain (MLD)	Quality / characteristic s of effluent	Quantity of industrial effluent discharged in drain (MLD)	Final point of Discharge of drain	Time bound action plan to prevent sewage discharge into drain
1) Grand canal	1.855	Analysis reports placed in Annexure-III (Pg. No.26-39)	Nil	All the drains are channelized into 11 MLD STP. Treated sewage is discharged into Arasalar back water.	STP of 11 MLD has been constructed, and commenced operation
2) Drain near PWDW Office	0.701				
3) Leon Saint Jean Street	0.131				
4) Opp. To PWD Office	0.172				
5) Oduthurai Channel near Mathagadi Water Tank	0.457				
6) Sri Ujjaini Kaliyamman kovil - NSC Bosh Street	0.475				
7) Meerapalli Thottam 1	0.229				
8) Meerapalli Thottam 2	0.229				
9) Tharik Avenue 1	0.232				
10) Sunnambu Kara Street	0.358				
11) Pushpa Nagar	0.209				
12) Umarupulavar Street	0.360				
13) St. Peters Hospital	0.104				
14) Cluny Hospital	0.140				
Total	5.652				
Mahe					
1(Grand canal)	0.386	Analysis reports placed in Annexure-III (Pg.No.40)	Nil	Sea	STP (0.5 MLD capacity) is proposed and tender was floated on 22.08.2025.

Yanam					
Sewage and sullage flowing in open drains (storm water drains/ concretised drains/ unlined/ Katcha drains) (No. of drains)	Flow in each drain (MLD)	Quality / characteristics of effluent	Quantity of industrial effluent discharged in drain (MLD)	Final point of Discharge of drain	Time bound action plan to prevent sewage discharge into drain
1) Francethippa drain	0.4	Analysis reports placed in Annexure-III (Pg.No. 41-42)	Nil	Coringa river	construction of 6 MLD STP is under progress and will be completed by March,2027
2) Boat street drain	0.4				
3) Ramannakodu drain	0.4				
4) Nakkala drain	0.40				
5) New balayogi colony	0.25				
6) Gummela lane	0.2				
7) Geedhalne drain	0.15				
8) Ambedkar nagar drain	0.1				
9) Ambedkar nagar sub-drain-I	0.1				
10) Ambedkar nagar sub-drain-II	0.1				
11) Ambedkar nagar sub-drain-III	0.15				
12) Mettacuru fishermen colony drain	0.2				
13) Mettacuru ramabai nagar drain	0.3				
14) Subhadra nagar drain	0.20				
15) Kursampeta-I	0.10				
16) Kursampeta-II	0.10				
17) Kursampeta-III	0.12				
18) Neelapalli drain	0.20				
Total	3.87				

(E) Sewage treatment and utilization							
Installed treatment capacities of existing STPs (MLD) (11)	Utilisation capacity of existing STPs (MLD) (12)	Gap in sewage generation and treatment (MLD) (13)	Time bound plan to set up and operationalise STPs (14)	Performance of STPs with reference to standards (15)	Final point of discharge of treated effluent (16)	Level of utilisation of treated sewage (17)	Sludge generation and its management (18)
Puducherry							
17 MLD at Lawspet (SBR technology)	100 %	Nil	In Operation	Complies with the standards. Annexure-IV (Pg.No.43)	Fodder grass cultivation and sea through Karuvadikuppam drain	75 %	400-600 kg/day Filling up of the low lying area
2.5 MLD at Lawspet (UASB technology)	-	2.5	June, 2026	Under rejuvenation		-	
17 MLD at Dubrayapet (SBR technology)	100 %	Nil	In Operation	Complies with the discharge standards. Annexure-IV (Pg.No.44)	sea	2 %	400-600 kg/day Filling up of the low lying area
2.5 MLD at Dubrayapet (UASB technology)	-	2.5	June, 2026	Under rejuvenation		-	
17 MLD at Kanaganeri (SBR technology)	100 %	Nil	In Operation	Complies with the discharge standards. Annexure-IV (Pg.No. 45)	Sea through Uppar and Olundai drain	-	2600-3600 kg/day Filling up of the low lying area
15 MLD at Dubrayapet (SBR technology)	80%	Nil	In Operation	Not Complies with standards since the STP is recently commenced on 01.03.2026 Annexure-IV) (Pg.No.46)	Sea	-	-

Karaikal							
Installed treatment capacities of existing STPs (MLD) (11)	Utilisation capacity of existing STPs (MLD) (12)	Gap in sewage generation and treatment (MLD) (13)	Time bound plan to set up and operationalise STPs (14)	Performance of STPs with reference to standards (15)	Final point of discharge of treated effluent (16)	Level of utilisation of treated sewage (17)	Sludge generation and its management (18)
11 MLD	Nil	Nil	In operation	Test to be conducted, since the STP is recently commenced on 01.03.2026	Backwater of Arasalar through channels	-	Sludge generated will be used as manure.
Mahe							
Installed treatment capacities of existing STPs (MLD) (11)	Utilisation capacity of existing STPs (MLD) (12)	Gap in sewage generation and treatment (MLD) (13)	Time bound plan to set up and operationalise STPs (14)	Performance of STPs with reference to standards (15)	Final point of discharge of treated effluent (16)	Level of utilisation of treated sewage (17)	Sludge generation and its management (18)
Nil	Nil	0.5 MLD	Work order was issued on 22.08.2025 for construction of 0.5 MLD STP	-	-	-	-
Yanam							
Nil	Nil	6 MLD	Construction of STP is in progress will be completed by March 2027.	-	Coringa River	-	-

ANNEXURE-III: Analysis Report of Drains


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ISSUED TO : **M/s. The Executive Engineer,**
 Public Health Division, PWD,
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Test Certificate No : CML/26-27/T001885
 Test Certificate Date : 06/04/2026
 Date of Receipt : 01/04/2026
 Analysis Commenced : 01/04/2026
 Analysis Completed On : 04/04/2026

Customer Reference : SRF Dated : 31/03/2026

Laboratory No : 2700160/006

Sample Description : **Uppar/Uppalam Drain - Drain Water**
 (as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.23
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	38
3	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	12
4	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	77
5	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	29.10
6	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	1.93
Discipline: Biological		Group: Pollution & Environment		
7	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	920
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

Reviewed & Authorised by
G.S. RADHA
 Technical Manager
 Authorised Signatory

.....End of Report.....

For Chennai Mettex Lab Private Limited



Reviewed & Authorised by
P. KAVITHA
 Technical Manager
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Test Certificate No : CML/26-27/T001851

Public Health Division, PWD,
 Govt .of Puducherry. India.

Test Certificate Date : 06/04/2026

Date of Receipt : 01/04/2026

Customer Reference : SRF Dated : 31/03/2026

Analysis Commenced : 01/04/2026

Laboratory No : 2700160/005

Analysis Completed On : 04/04/2026

Sample Description : **Karuvadikuppam Drain - Drain Water**
 (as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.57
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	28
3	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	8
4	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	32
5	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	27.20
6	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	2.10
Discipline: Biological		Group: Pollution & Environment		
7	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	540

Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.

G.S. Radha

Reviewed & Authorised by
G.S. RADHA
 Technical Manager
 Authorised Signatory

.....End of Report.....

For Chennai Mettex Lab Private Limited



P. Kavitha

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Customer Reference : SRF Dated : 31/03/2026

Laboratory No : 2700160/008

Sample Description : **Grand Canal – Drain Water**
(as stated by customer)

Test Certificate No : CML/26-27/T001889

Test Certificate Date : 06/04/2026

Date of Receipt : 01/04/2026

Analysis Commenced : 01/04/2026

Analysis Completed On : 04/04/2026

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.12
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	148
3	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	54
4	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	192
5	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	26.30
6	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	1.25
Discipline: Biological		Group: Pollution & Environment		
7	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	1600
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

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For Chennai Mettex Lab Private Limited

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 Technical Manager
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P. K. WITHA
 Technical Manager
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 Govt. of Puducherry, Karaikal, 609 602, India.

Test Certificate No : CML/26-27/T007181

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Date of Receipt : 17/04/2026

Analysis Commenced On : 17/04/2026

Analysis Completed On : 21/04/2026

Customer Reference : SRF Dated : 17/04/2026

Laboratory No : 2703005/001

Sample Description : **Sewage Water - Karaikal Grand channel, Rajiv Gandhi Nagar, Beach Road, Karaikal.**
(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	8.47
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	186
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	24
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	65
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	272
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	16.7
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	0.31
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	350 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

.....End of Report.....

J. Hemalatha
 Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

P. Kavitha
 Reviewed & Authorised by
P. KAVITHA
 Technical Manager
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Test Certificate No : CML/26-27/T007185

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Analysis Commenced On : 17/04/2026

Analysis Completed On : 21/04/2026

Customer Reference : SRF Dated : 17/04/2026

Laboratory No : 2703005/002

Sample Description : **Sewage Water - Karaikal Branch Channel; East Coast Road, Bharathi Nagar, Karaikal.**
(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.59
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	48
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	7
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	40
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	119
6	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	5.56
7	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	14.8
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	430 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

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J. Hemalatha

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

P. Kavitha

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P. KAVITHA
 Technical Manager
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 India.

Test Certificate No : CML/26-27/T007190

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Customer Reference : SRF Dated : 17/04/2026

Analysis Commenced On : 17/04/2026

Laboratory No : 2703005/003

Analysis Completed On : 21/04/2026

Sample Description : **Sewage Water - Karaikal Branch Channel; Railway Station Road**
 (as stated by customer) **(Near Sub-Division), Karaikal.**

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	6.95
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	480
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	38
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	155
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	460
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	13.2
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	2.45
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	350 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

.....End of Report.....

For Chennai Mettex Lab Private Limited

J. Hemalatha

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



P. Kavitha

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 Technical Manager
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Test Certificate No : CML/26-27/T007191

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Analysis Commenced On : 17/04/2026

Analysis Completed On : 21/04/2026

Customer Reference : SRF Dated : 17/04/2026

Laboratory No : 2703005/004

Sample Description : **Sewage Water - Oduthurai Branch Channel; Karukkalacherry, East Coast Road,
 Ammal Chattiram, Karaikal.**
 (as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.75
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	276
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	17
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	74
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	292
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	12.6
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	4.40
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	280 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

.....End of Report.....

J. Hemalatha

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

P. Kavitha

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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 Email : test@mettexlab.com | Web : www.mettexlab.com



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ISSUED TO : **M/s. The Executive Engineer,**
 Irrigation & Public Health Division,
 Public Works Department (PWD),
 Govt. of Puducherry, Karaikal, 609 602,
 India.

Test Certificate No : CML/26-27/T007192

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Analysis Commenced On : 17/04/2026

Analysis Completed On : 21/04/2026

Customer Reference : SRF Dated : 17/04/2026

Laboratory No : 2703005/005

Sample Description : **Sewage Water - Oduthurai branch channel; Nethaji Nagar, Ammal Chattiram, Karaikal.**
(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	8.21
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	46
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	8
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	18
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	78
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	14.81
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	3.64
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	240 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

.....End of Report.....

For Chennai Mettex Lab Private Limited

J. Hemalatha

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



P. Kavitha

Reviewed & Authorized by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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 Public Works Department (PWD),
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 India.**

Test Certificate No : CML/26-27/T007193

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Analysis Commenced On : 17/04/2026

Analysis Completed On : 21/04/2026

Customer Reference : SRF Dated : 17/04/2026

Laboratory No : 2703005/006

Sample Description : **Sewage Water - Karaikal Drainage Channel; NSC Bose Road, Karaikal.**
(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.90
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	260
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	22
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	60
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	251
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	14.2
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	5.12
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	430 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

.....End of Report.....

J. Hemalatha

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

P. Kavitha

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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Test Certificate No : CML/26-27/T007213

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Analysis Commenced On : 17/04/2026

Analysis Completed On : 21/04/2026

Customer Reference : SRF Dated : 17/07/2026

Laboratory No : 2703005/007

Sample Description : **Sewage Water - Karaikal Drainage Channel; Kaziar Street, Karaikal.**
(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical			Group: Pollution & Environment	
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.38
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	146
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	13
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	36
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	146
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	16.42
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	6.30
Discipline: Biological			Group: Pollution & Environment	
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	350 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

.....End of Report.....

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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Test Certificate No : CML/26-27/T007215

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Customer Reference : SRF Dated : 17/07/2026

Analysis Commenced On : 17/04/2026

Laboratory No : 2703005/008

Analysis Completed On : 21/04/2026

Sample Description : **Sewage Water - Karaikal Drainage Channel; Thomas Arul Street, Karaikal.**
(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.60
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	44
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	7
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	42
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	160
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	15.8
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	4.20
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	280 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

.....End of Report.....

J. Hemalatha

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

P. Kavitha

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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 India.

Test Certificate No : CML/26-27/T007216

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Analysis Commenced On : 17/04/2026

Analysis Completed On : 21/04/2026

Customer Reference : SRF Dated : 17/04/2026

Laboratory No : 2703005/009

Sample Description : Sewage Water - Dharmapuram Channel; Samathuvapuram, Puduthurai Road, Puduthurai,
 Karaikal.
(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical			Group: Pollution & Environment	
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	8.94
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	142
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	16
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	55
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	199
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	14.5
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	3.80
Discipline: Biological			Group: Pollution & Environment	
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	350 X 10 ²

Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.

.....End of Report.....

For Chennai Mettex Lab Private Limited

J. Hemalatha

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



P. Kavitha

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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 India.**

Test Certificate No : CML/26-27/T007217

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Customer Reference : SRF Dated : 17/04/2026

Analysis Commenced On : 17/04/2026

Laboratory No : 2703005/010

Analysis Completed On : 21/04/2026

Sample Description : **Sewage Water - Kumsakattalai Branch Channel; Vallal Seethakathi Street, Karaikal.**
(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.67
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	38
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	7
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	14
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	66
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	15.8
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	3.57
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	350 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

.....End of Report.....

J. Hemalatha

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

P. Kavitha

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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Test Certificate No : CML/26-27/T007225

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Customer Reference : SRF Dated : 17/04/2026

Analysis Commenced On : 17/04/2026

Laboratory No : 2703005/011

Analysis Completed On : 21/04/2026

Sample Description : **Sewage Water - Puduthurai Channel; Puthuthurai, Karaikal.**
 (as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.44
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	124
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	14
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	38
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	144
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	19
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	4.07
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	280 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

.....End of Report.....

J. Hemalatha

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

P. Kavitha

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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Test Certificate No : CML/26-27/T007226

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Customer Reference : SRF Dated : 17/04/2026

Analysis Commenced On : 17/04/2026

Laboratory No : 2703005/012

Analysis Completed On : 21/04/2026

Sample Description : Sewage Water - Ammai Voikal Channel; Puthuthurai, Karaikal.
 (as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	8.05
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	54
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	8
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	14
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	54
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	15.5
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	2.48
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	430 X 10 ²
Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.				

.....End of Report.....

J. Hemalatha

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

P. Kavitha

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
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Test Certificate No : CML/26-27/T007227

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Analysis Commenced On : 17/04/2026

Analysis Completed On : 21/04/2026

Customer Reference : SRF Dated : 17/04/2026

Laboratory No : 2703005/013

Sample Description : **Sewage Water - Kumsakattalai Channel; Mariyam Nagar Extension, Ravanna Nagar,
 Karaikal.**
(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	7.55
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	64
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	9
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	49
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	221
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	18.03
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	4.82
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	350 X 10 ²

Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.

.....End of Report.....

Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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CML/LAB/16/2026/1



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TC-5589

TEST REPORT

Page:1 of 1

ISSUED TO : **M/s. The Executive Engineer,**
 Irrigation & Public Health Division,,
 Public Works Department (PWD),
 Govt. of Puducherry, Karaikal, 609 602, India.

Test Certificate No : CML/26-27/T007228

Test Certificate Date : 21/04/2026

Date of Receipt : 17/04/2026

Analysis Commenced On : 17/04/2026

Analysis Completed On : 21/04/2026

Customer Reference : SRF Dated : 17/04/2026

Laboratory No : 2703005/014

Sample Description : **Sewage Water - Pachoor Voikal Channel; Pushpa Nagar, Karaikal.**

(as stated by customer)

S.No.	Test Parameters	Test Method	Units	Results
Discipline: Chemical		Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	NA	8.40
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	266
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	32
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	34
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	146
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	16.74
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	1.29
Discipline: Biological		Group: Pollution & Environment		
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	430 X 10 ²

Abbreviation: APHA: American Public Health Association, MPN: Most Probable Number.

.....End of Report.....

J. Hemalatha
 Reviewed & Authorized by
J. HEMALATHA
 Food Analyst
 Authorised Signatory



For Chennai Mettex Lab Private Limited

P. Kavitha

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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PURE WASSER TECHNOLOGIES
WATER TESTING LABORATORY & TREATMENT CONSULTANTS
 NUT STREET POST OFFICE BUILDING, NEAR TOWN HALL, VATAKARA PIN 673104

9562 310233 , 7510 310233

Email: pure_wasser@yahoo.com

KERALA STATE POLLUTION CONTROL BOARD APPROVED LABORATORY

Analysis Report

AR No: AR /PWT/22202/ 2026

Date: 14-04-2026

Name : Assistant Engineer PWD		Date & Time of sample collection : 11-04-2026	
Mob :		Domestic	Establishment ✓
Address : Mahe		Sample collected by : Client	
Email :		Sample delivered by : Client	
		Date & Time of delivery : 11-04-2026 10:30 am	
Source of Sample : STP		Sample received by : Analyst I	
Sample container : Plastic Bottle		Sample condition : Fit for analysis	
Type of Test	Chemical ✓	Microbiological ✓	Period of Analysis : 11-04-2026 to 14-04-2026

Sl No	Parameter	Unit	Test method APHA	Results
1	pH @25 ^o C	-	4500 H + B	7.40
2	Total suspended solids	mg/L	2540 D	8
3	Bio Chemical Oxygen Demand – BOD (3 Days at27°C)	mg/L	5210 B	84
4	Chemical Oxygen Demand COD	mg/L	5220 B	104
5	Oil & Grease	mg/L	5520 C	BDL
Bacteriology				
6	Total Coliform	cfu/100 ml	15185:2016 Reaffirmed Year 2021	184/100ml
7	Escherichia Coli	cfu/100ml		108/100ml

The report is of the sample tested only and shall not be reproduced except in full.

Remarks :

BDL-Below Detection Level

Laboratory Detection Level for Oil& Grease is 3.2 mg/L



Authorized signatory



Ref : Job No. UCEK/JNTUK/ICS/PH / 02/2026-27

Date : 18.04.2026

INDUSTRIAL CONSULTANCY SERVICES
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA
Jawaharlal Nehru Technological University Kakinada
KAKINADA - 533 003 A.P., INDIA

ANNEXURE - 1/4

Francethippa Drain

Name of the Work : analysis of Sewage Samples collected and supplied By

PW-Yanam- Submission of Sewage Samples.

(All the Units, unless otherwise specified, are in mg/l. 1 mg/dl)

S.No.	Parameter	Value
CHEMICAL		
1.	pH at 25 ^o C	7.08
2.	Biochemical Oxygen Demand BOD520	46
3.	Chemical Oxygen Demand (COD)	64
4.	Total Suspended Solids (TSS)	80
5.	Faecal Coliforms	200 MPN/100

ANNEXURE - 2/4


BOAT STREET DRAIN

Name of the Work : analysis of Sewage Water Samples collected and supplied By

PW-Yanam- Submission of Sewage Samples.

(All the Units, unless otherwise specified, are in mg/l. 1ppm =1mg/l)

S.No.	Parameter	Value
CHEMICAL		
1.	pH at 25 ^o C	7.16
2.	Biochemical Oxygen Demand BOD520	52
3.	Chemical Oxygen Demand (COD)	68
4.	Total Suspended Solids (TSS)	84
5.	Faecal Coliforms	200 MPN/100


Principal & Chief Coordinator,
Industrial Consultancy Services
University College Engg. Kakinada
JNTUK, KAKINADA. (AP)



Ref : Job No. UCEK/JNTUK/ICS/PH / 02/2026-27

Date : 18.04.2026

INDUSTRIAL CONSULTANCY SERVICES
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA
Jawaharlal Nehru Technological University Kakinada
KAKINADA – 533 003 A.P., INDIA

ANNEXURE – 3/4
RAMANNAKODU DRAIN

Name of the Work : analysis of Sewage Water Samples collected and supplied By

PW-Yanam- Submission of Sewage Samples.

(All the Units, unless otherwise specified, are in mg/l. 1ppm = 1 mg/l)

S.No.	Parameter	Value
CHEMICAL		
1.	pH at 25 ⁰ C	7.92
2.	Biochemical Oxygen Demand BOD520	48
3.	Chemical Oxygen Demand (COD)	64
4.	Total Suspended Solids (TSS)	88
5.	Faecal Coliforms	240 MPN/100


ANNEXURE – 4/4
NAKKALA DRAIN

Name of the Work : analysis of Sewage Water Samples collected and supplied By

PW-Yanam- Submission of Sewage Samples.

(All the Units, unless otherwise specified, are in mg/l. 1ppm = 1 mg/l)

S.No.	Parameter	Value
CHEMICAL		
1.	pH at 25 ⁰ C	7.93
2.	Biochemical Oxygen Demand BOD520	54
3.	Chemical Oxygen Demand (COD)	92
4.	Total Suspended Solids (TSS)	90
5.	Faecal Coliforms	212 MPN/100


Principal & Chief Coordinator
Industrial Consultancy Services
University College Engg. Kakinada
JNTUK, KAKINADA (AP)

ANNEXURE-IV: Treated Sewage Analysis Report


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TEST REPORT

Page:1 of 1

ISSUED TO : **M/s. The Executive Engineer,**

Public Health Division, PWD,
 Govt.of Puducherry
 Puducherry, India.

Customer Reference : SRF Dated : 31/03/2026

Laboratory No : 2700160/004

Sample Description : **Lawspet STP - 17 MLD - Treated Effluent Water**

(as stated by customer)

Test Certificate No : CML/26-27/T001850

Test Certificate Date : 06/04/2026

Date of Receipt : 01/04/2026

Analysis Commenced On : 01/04/2026

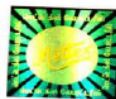
Analysis Completed On : 04/04/2026

S.No.	Test Parameters	Test Method	Unit	Results	NGT Effluent Discharge Limit For STPs (MAX)
Discipline: Chemical			Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	-	7.40	5.5 - 9.0
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	16	20
3	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	3	10
4	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	11	50
5	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	9.10	10
6	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	0.26	1
Discipline: Biological			Group: Pollution & Environment		
7	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	210	Desirable- 100 Permissible- 230
Note: APHA - American Public Health Association, MPN - Most Probable Number. Oil & Grease- Standard Limit specified in part A of schedule VI for discharge effluent notified by Ministry of Environment Forest and Climate Change. Rest of parameter Standard limit prescribed by CPCB in Hon'ble NGT order in O.A.No. 1069/2018.					

.....End of Report.....

For Chennai Mettex Lab Private Limited

Reviewed & Authorised by
G.S. RADHA
 Technical Manager
 Authorised Signatory



Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory



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CML/LAB/F/7.8/1



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ISSUED TO : **M/s. The Executive Engineer,**

Public Health Division, PWD,
 Govt.of Puducherry
 Puducherry, India.

Customer Reference : SRF Dated : 31/03/2026

Laboratory No : 2700160/001

Sample Description : **Dubrayapet STP - 17 MLD – Treated Effluent Water**

(as stated by customer)

Test Certificate No : CML/26-27/T001845

Test Certificate Date : 06/04/2026

Date of Receipt : 01/04/2026

Analysis Commenced On : 01/04/2026

Analysis Completed On : 04/04/2026

S.No.	Test Parameters	Test Method	Unit	Results	NGT Effluent Discharge Limit For STPs (MAX)
Discipline: Chemical			Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	-	7.28	5.5 - 9.0
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	16	20
3	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	7	10
4	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	36	50
5	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	8.2	10
6	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	0.82	1
Discipline: Biological			Group: Pollution & Environment		
7	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	210	Desirable- 100 Permissible- 230
<p>Note: APHA - American Public Health Association, MPN - Most Probable Number. Oil & Grease- Standard Limit specified in part A of schedule VI for discharge effluent notified by Ministry of Environment Forest and Climate Change. Rest of parameter Standard limit prescribed by CPCB in Hon'ble NGT order in O.A.No. 1069/2018.</p>					

.....End of Report.....

For Chennai Mettex Lab Private Limited

G.S. Radha

Reviewed & Authorised by
G.S. RADHA
 Technical Manager
 Authorised Signatory



P. Kavitha

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
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ISSUED TO : **M/s. The Executive Engineer,**

Test Certificate No : CML/26-27/T001849

Public Health Division, PWD,,
 Govt.of Puducherry
 Puducherry, India.

Test Certificate Date : 06/04/2026

Date of Receipt : 01/04/2026

Customer Reference : SRF Dated : 31/03/2026

Analysis Commenced On : 01/04/2026

Laboratory No : 2700160/003

Analysis Completed On : 04/04/2026

Sample Description : **Kanaganeri STP - 17 MLD – Treated Effluent Water**

(as stated by customer)

S.No.	Test Parameters	Test Method	Unit	Results	NGT Effluent Discharge Limit For STPs (MAX)
Discipline: Chemical			Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	-	7.30	5.5 - 9.0
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	19	20
3	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	9	10
4	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	45	50
5	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	9.6	10
6	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	0.90	1
Discipline: Biological			Group: Pollution & Environment		
7	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	220	Desirable- 100 Permissible- 230

Note: APHA - American Public Health Association, MPN - Most Probable Number.
 Oil & Grease- Standard Limit specified in part A of schedule VI for discharge effluent notified by Ministry of Environment Forest and Climate Change.
 Rest of parameter Standard limit prescribed by CPCB in Hon'ble NGT order in O.A.No. 1069/2018.

.....End of Report.....

For Chennai Mettex Lab Private Limited

Reviewed & Authorised by
G.S. RADHA
 Technical Manager
 Authorised Signatory



Reviewed & Authorised by
P. K. VITHA
 Technical Manager
 Authorised Signatory





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ISSUED TO : **M/s. The Executive Engineer,**

Public Health Division, PWD,
 Govt.of Puducherry
 Puducherry, India.

Customer Reference : SRF Dated : 31/03/2026

Laboratory No : 2700160/002

Sample Description : **Dubrayapet STP - 15 MLD - Treated Effluent Water**

(as stated by customer)

Test Certificate No : CML/26-27/T001848

Test Certificate Date : 06/04/2026

Date of Receipt : 01/04/2026

Analysis Commenced On : 01/04/2026

Analysis Completed On : 04/04/2026

S.No.	Test Parameters	Test Method	Unit	Results	NGT Effluent Discharge Limit For STPs (MAX)
Discipline: Chemical			Group: Pollution & Environment		
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	-	7.27	5.5 – 9.0
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	23	20
3	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	8	10
4	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	55	50
5	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	23.80	10
6	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	0.64	1
Discipline: Biological			Group: Pollution & Environment		
7	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	290	Desirable- 100 Permissible- 230
<p>Note: APHA - American Public Health Association, MPN - Most Probable Number.<1.8 MPN/100ml can be taken as "No microbial growth". Oil & Grease- Standard Limit specified in part A of schedule VI for discharge effluent notified by Ministry of Environment Forest and Climate Change. Rest of parameter Standard limit prescribed by CPCB in Hon'ble NGT order in O.A.No. 1069/2018.</p>					

.....End of Report.....

For Chennai Mettex Lab Private Limited

G.S. Radha

Reviewed & Authorised by
G.S. RADHA
 Technical Manager
 Authorised Signatory



P. Kavitha

Reviewed & Authorised by
P. KAVITHA
 Technical Manager
 Authorised Signatory





Figure 1: Reclaimed Area after Bio-mining



Figure 2: Solid Waste Processing Facility Established on Reclaimed Area



Figure 3: Solid Waste Processing Facility Established on Reclaimed Area



Figure 4: Remaining Legacy Waste

Annexure – 5B - Karaikal



Figure 5: Reclaimed Area after Bio-mining



Figure 6: Solid Waste Processing Facility Established on Reclaimed Area



Figure 7: Remaining Legacy Waste

Annexure – 5C – Yanam



Figure 8: Reclaimed Area after Bio-mining