No. M-17057/25/O/o-Director/DSTE/2026/1137
GOVERNMENT OF PUDUCIHERRY
DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT
PUDUCHERRY POLLUTION CONTROL COMMITTEE
3rd Floor, I-Housing Board Complex, Anna Nagar, Puducherry - 5.
Telephone: (0413) 2201256; Telefax: (0413) 2203494
***

Puducherry, the 26 OCT 2026

To

Shri. Anup Kumar Srivastava
Executive Director (Tech)
National Mission for Clean Ganga
Ministry of Jai Shakti,
Ist Floor, Major Dhyan Chand National Stadium,
India Gate, New Delhi — 110 002.

Sir,

Sub: DSTE/PPCC-Submission of Progress Report on Restoration of Polluted River Stretches-Reg.

Ref: Letter received from MoJS, GoI vide no. Legal/OA No. 673/2018/NMCG/2019 date 08.10.2020.

***

With reference to the above mentioned subject, Progress Report for the month of September, 2026 is enclosed for kind perusal.

Yours sincerely,

N. Ramesh

(Dr. N. Ramesh)
Member Secretary
PPCC

Enc1: as stated above

Copy to:

1. The Member Secretary,
   Central Pollution Control Board,
   Parivesh Bhawan, C.B.D. Cum-Office Complex,
   East Arjun Nagar, Delhi — 110 032.

2. Standing Guard File

Submission of Monthly Progress Report of September, 2026 in the NGT Matter OA No.673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Puducherry

I. Estimated Sewage Generation(MLD) : 71 MLD (URBAN)

(657600 x 135 LPCD X 80%) = 71.02 MLD Say 71 MLD

Overall status of the State (2011)

1. Total UT of Puducherry Population: 1247953
2. Puducherry District Population : 950289
3. Puducherry Urban Population : 657600 (950289x69.20%)
4. Puducherry Rural Population : 292689 (950289x30.80%)

II. Details of Sewage Treatment Plants: Puducherry District

1.	Existing no. of STPs and Treatment Capacity (in MLD) Net Treatment capacity of STP's	4 Nos. of SBR – 66 MLD 2 Nos. of UASB – 5 MLD Total – 71 MLD
2.	Capacity Utilization of existing STPs: (17+ 16+17+13.68) = 63.68 MLD 63.68/ 71 = 89.69%	63.68 MLD (89.69%)
3.	MLD of sewage being treated through Alternate technology:	---
4.	Gap in Treatment Capacity in MLD:	---
5.	No. of Operational STPs:	6 Nos.
6.	No. of Complying STPs	4 Nos.

Details of each existing STPs in the State

Details of each existing STP in the State

Sl. No	Location	Existing STP Capacity	Capacity Being Utilized	Operational Status of STP	Compliance Status of STP
1	Puducherry	71MLD	89.69 MLD	6	4
2	Karaikal	11 MLD	4.0 MLD	In O&M	1
3	Mahe	-	-	-	-
4	Yanam	-	-	-	-

Details of STPs under construction in the State

Sl. No	Location	STP Capacity of plant	Physical progress in %	Status of I & D or HSC	Probable Date of Completion
1	Puducherry	15 MLD	Work Completed	-	Commissioned
2	Karaikal	11 MLD	Work Completed	-	Commissioned

Details of proposed STPs in the State

Sl. No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/under Tendering/Work to be Awarded)	Likely Date of Completion
1.	Puducherry	3 MLD (Abating river pollution at Sankarabarani River)	Work order was issued on 30.12.2025. Actual date of start of work is 02.03.2026.	March, 2027
2.	Mahe	Administrative Approval accorded vide G.O.Ms.No.18/LAS/A1/2024 dt.23.09.2024 for an amount of Rs.5,15,88,990/-. The Expenditure Sanction also obtained vide order No. P/64/2024/LAS/A1/2025 dt.28.07.2025 Tender approved vide No.1795/PW/CE/EE(P)III/F. 1001-Mahe(23-24) vol-VI/2025-26 dt. 01.08.2025 and Work Commencement Order issued on 22.08.2025. An alternate site is proposed for the setting up of STP and NOC is also received from the Mahe Municipality for sparing the land. The work will be commenced shortly.		-
5.	Yanam	After the receipt of administrative approval and expenditure sanction from Government vide G.O.Rt.No.32, dated 31.10.2025, the lowest negotiated tender of M/s. Eco Protection Engineers Private Limited, Chennai is accepted for Rs.34,76,16,200/- @ 9.925% above (+) vide letter No. 3300, dated 13.11.2025 after obtaining approval of works board. Work Order issued on 30.12.2025. Work commenced. But due to the objections raised by the neighbouring villagers of Andhra Pradesh, the work was stopped by the Tahsildar, Tallarevu Taluk on 23-04-2026. A joint inspection by Andhra Pradesh Administration officials and Puducherry Administration officials was conducted on 15-05-2026 and 03-07-2026. Subsequent to the discussions and joint inspections, work was recommenced on 10-07-2026 with police protection. Site filling work completed to an extent of 50% and Geotechnical Investigations completed. Structural Design Work is in progress.		--

III. Details of Industrial Pollution:

1.	No. of industries in the State:	3595
2.	No. of Effluent generating industries in the State:	115
3.	Quantity of effluent generated from the industries in MLD:	4.75 MLD
4.	Quantity of Hazardous Sludge generated from the Industries in TPA:	4828.8 kg/day
5.	Number of industrial units having ETPs:	115
6.	Number of industrial units connected to CETP:	Nil
7.	Number and total capacity of ETPs (details of existing/ under construction/ proposed)	Existing–115 Capacity-4.75 MLD
8.	Compliance status of the ETPs:	Four industries were monitored, and all four industries were found to be meeting the prescribed standards.
9.	Number and total capacity of CETPs (details of existing / under construction /proposed)	Nil
10.	Status of compliance and operation of the CETPs	Nil

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Puducherry	3271	4746.2 KLD	Existing-115 nos.	Nil

V. Solid Waste Management:

<table>
<tr><td></td><td>Total number of Urban Local Bodies and their Population.</td><td>5 ULB’s (7,28,761, Census 2011)</td></tr>
<tr><td>1.</td><td>Current Municipal Solid Waste Generation.</td><td>Total solid waste generation – 485 TPD
<table>
<tr><th>Sl. No.</th><th>ULB</th><th>Total waste generated (TPD)</th></tr>
<tr><td>1</td><td>PM</td><td>164</td></tr>
<tr><td>2</td><td>OM</td><td>160</td></tr>
<tr><td>3</td><td>KM</td><td>128</td></tr>
<tr><td>4</td><td>MM</td><td>12</td></tr>
<tr><td>5</td><td>YM</td><td>21</td></tr>
<tr><td></td><td>Total</td><td>485</td></tr>
</table></td></tr>
<tr><td>2.</td><td>Number, Installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg., -Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio-methanation, MRF etc</td><td>Integrated MSWM is being taken up for all types of waste by the ULBs.
<table>
<tr><th>Sl. No.</th><th>ULB</th><th>Processing</th><th>Bio-methanation</th><th>RDF</th><th>MRF</th><th>Total</th><th>Precentage of Processing</th></tr>
<tr><td>1</td><td>PM & OM</td><td>240 TPD compost</td><td>-</td><td>120 TPD</td><td>2 TPD</td><td>362</td><td>98</td></tr>
<tr><td>2</td><td>KM</td><td>65 TPD-Rapid compost 5TPD vermi compost</td><td>-</td><td>15 TPD</td><td>2 TPD</td><td>82</td><td>85</td></tr>
<tr><td>3</td><td>MM</td><td>8 TPD-pipe compost</td><td>-</td><td>4 TPD</td><td>-</td><td>12</td><td>100</td></tr>
<tr><td>4</td><td>YM</td><td>15 TPD compost</td><td>-</td><td>-</td><td>3 TPD</td><td>18</td><td>90</td></tr>
<tr><td></td><td>Total</td><td>333 TPD</td><td>-</td><td>130 TPD</td><td>7 TPD</td><td>470</td><td>94</td></tr>
</table></td></tr>
<tr><td>3.</td><td>Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap> 20%)</td><td>Integrated Municipal Solid Waste Management projects including the scope of collection, transportation, processing and disposal are being implemented to handle all the types of waste generated in the ULBs – 635 MTs of waste from entire UT of Puducherry (Urban Local Bodies and Commune Panchayats together)
1. The following processing facilities to be set up in Resource Recovery Park at Kurumbapet for improving Solid Waste Management Practices.
a. Leachate Collection Tank
b. ETP & STP
c. Biogas Compressed CBG and Fertilizer Unit
d. Incinerator
e. Compost Sieving machine
2. Mahe is practicing in-situ wet waste management and the current concessionaire is taking care of dry waste separately.</td></tr>
</table>

<table>
<tr><td>4.</td><td>No. and capacity of C&D waste processing Plants in TPD (existing, proposed and under construction)</td><td>Tender has been floated for setting up Integrated Municipal Solid Waste Management – the scope is inclusive of Collection, Transportation, Processing and Disposal of C&D waste for Pondicherry and Oulgaret Municipalities.
The work order has been issued for Karaikal and Yanam municipalities. Puducherry and Karaikal communes also included under C&D waste management.</td></tr>
<tr><td>5.</td><td>Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source.</td><td>
<table>
<tr><th>ULB</th><th>Number of Wards</th><th>Door to Door collection (DTDC)</th><th>Ground Status on Source Segregation</th></tr>
<tr><td>PM</td><td>42</td><td>100%</td><td>10%</td></tr>
<tr><td>OM</td><td>37</td><td>100%</td><td>10%</td></tr>
<tr><td>KM</td><td>18</td><td>100%</td><td>100%</td></tr>
<tr><td>YM</td><td>14</td><td>100%</td><td>10%</td></tr>
<tr><td>MM</td><td>15</td><td>100%</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>6.</td><td>Details of MSW treatment facilities proposed and under construction (no. capacity and technology)</td><td>
<table>
<tr><th>ULB</th><th>MSW treatment facilities proposed</th><th>Capacity</th><th>Status</th></tr>
<tr><td>PM
OM</td><td>Integrated SWM</td><td>450 TPD</td><td>M/s. Green Warrior has established and commenced processing with effect from 01.02.2024.</td></tr>
<tr><td>KM</td><td>Integrated SWM (Bio-methanation, BSF and Windrows composting)</td><td>97 TPD</td><td>M/s. HR Square has established and commenced processing with effect from 01.02.2023.</td></tr>
<tr><td>YM</td><td>Integrated SWM Windrows composting)</td><td>20 TPD</td><td>M/s. HR Square has established and commenced processing with effect from 20.01.2024.</td></tr>
<tr><td>MM</td><td colspan="3">In-house composting is being practiced. There is no requirement of processing plant.</td></tr>
<tr><td>Pdy CP’s</td><td>Integrated Municipal Solid Waste Processing Project at Puducherry commune panchayat</td><td>150 TPD</td><td>M/s. HR Square has established and commenced processing with effect from 01.02.2024.</td></tr>
<tr><td>Kkl CP’s</td><td>Integrated Municipal Solid Waste Processing Project at Puducherry commune panchayat</td><td>80 TPD</td><td>M/s. HR Square has established and commenced processing with effect from 01.02.2023.</td></tr>
</table>
</td></tr>
<tr><td>7.</td><td>No. and area (in acres) of uncontrolled garbage dumpsites and sanitary landfills.</td><td>
<table>
<tr><td colspan="3">3 Nos. of controlled Landfills</td></tr>
<tr><td>Puducherry</td><td>23.0 acre</td><td></td></tr>
<tr><td>Karaikal</td><td>8.32 acre</td><td></td></tr>
<tr><td>Yanam</td><td>0.618 acre</td><td></td></tr>
<tr><td>Total</td><td>31.938 acre</td><td></td></tr>
</table>
</td></tr>
<tr><td>8.</td><td>No. and area (in acres) of legacy waste within 1 km buffer of both side of the rivers.</td><td>Nil</td></tr>
</table>

Status of Legacy Waste Management: Accumulated Legacy waste has been Bio-mined.

Sl. No.	Region	Accumulated Quantity in MT	Bio mined in MT	Balance in MT	Timeline for completion
1	Puducherry	(Phase – I) 5.53 lakh tons (Phase – II) 3,48,989 MT commenced on 13.10.2023	5.53 lakh tons 3,48,989	Nil Nil	Completed on 30th April, 2023 Completed on 15.08.2024
2	Karaikal	85350 commenced on 01.06.2023	85350	Nil	Completed on 31st May 2024
3	Yanam	21600	21600	Nil	Completed during Feb, 2025

No legacy waste in Mahe Municipality is reported.

An awareness Workshop on SWM Rules, 2026, for Lead Facilitator, with All Member of Legislative Assembly and Commissioners of Local Bodies, was held on 25.06.2026, under the Chairmanship of the Chief Minister of Puducherry.

VI. Bio-medical Waste Management:

1	Total Bio-medical generation:	4925 kg/day
2	No. of Hospitals and Health Care Facilities:	522
3	Status of Treatment Facility/CBMWTF:	One Common Bio-Medical Waste Treatment Facility functional.

VII. Hazardous Waste Management:

1	Total Hazardous Waste generation:	24042 TPA
2	No. of Industries generating Hazardous waste	155 industry obtained authorisation
3	Treatment Capacity of all TSDFs	-
4	Avg. Quantity of Hazardous waste reaching the TSDF and Treated.	TSDF: Land fillable Waste reached – 0 MT
5	Detail so for-going or proposed TSDF	Currently, the TSDF located in neighboring states is being shared. However, M/s. Re Sustainability IWM Solutions Limited had obtained EC for setting up of landfill at Polagam, Karaikal. And the unit has also applied for issue of Consent to Establish which is under examination.

VIII. Plastic Waste Management:

1	Total Plastic Waste generation:	78501 TPA
2	Treatment/Measures adopted for reduction or management of plastic waste:	Government of Puducherry has imposed total ban on single use plastics with effect from 02/08/2019. As per the Government of India Notification Addendum has been notified by the Government of Puducherry for imposing additional SUP items like (i) Ear buds with plastic sticks, plastic sticks for balloons, candy sticks and ice cream sticks;

		(ii) Polystyrene [Thermocol] for decoration; (iii) Plates, cups, glasses, cutlery such as forks, spoons, knives, trays, stirrers, wrapping or packing films around sweet boxes, invitation cards and cigarette packets (iv) Plastics or PVC banners less than 100 micron; (v) Non-woven plastic carry bags less than 60 Gram per Square Meter (GSM). Standard Operating Procedure (SOP) for making SUP free Government office has been prepared and circulated to all the Government Departments and Industries. Surprise inspections are being carried out. As per the direction of MoEF & CC, GOI, "Action Plan on Elimination of Single Use Plastic (SUP)" in the Union Territory of Puducherry has been prepared with the approval of Special Task Force (STF). One seminar was conducted to the Hotel, Restaurant and Marriage hall Association about Ill effects of Single Use Plastic (SUP) and usage of alternate products on 03.05.2025. A rally was conducted on 03.05.2025, on WED 2025 theme "Ending Plastics Pollution Globally". Cleaning drive was conducted on 03.05.2025, at Indira Gandhi Stadium by the players and volunteers and segregated the SUP items by M/s Recity, Puducherry. Two units were closed on 25.02.2025 for violation of G.O.Ms.No.18/Envt/2019, dated 02.08.2019. Implementation of Single Use Plastic (SUP) as per the notification of MoEF&CC, GOI is being strictly implemented by Local bodies and monitored by PPCC. For Setting up Material Recovery Facility (MRF) for 20 TPD Recyclable Plastic waste from Pondicherry and Oulgaret Municipality, MoU is under process. 92 drives were conducted and 134 kgs of SUP items have been seized and Rs. 22,000/-has been imposed as penalty. A Workshop for Plastic Waste Processer (PWPs) was conducted on 19.12.2025, to discuss about the Registration of the PWPs and Auditing of Reprocessing unit. A meeting regarding Expert Consultation on Rapid & Reliable methods for identification of Compostable Plastics was held on 22.01.2026
IX	Details of Alternate Treatment Technology being adopted by the State/UT	Nil

X	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment:	All the drains that reaches the Sankaraparani and Arasalar rivers were identified and in-situ remediation of providing grill grating, sandbar screen are completed in all the 172 drains.
XI	Details of Nodal Officer appointed by Chief Secretary in the State/UT:	The Development Commissioner-cum- Senior Nodal Officer, Government of Puducherry
XII	Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT:	A Review meeting on Compliance of Hon'ble NGT order dated 22.09.2025, in the matter of O.A. No.606/2018, was held on 27.03.2026 under the Chairmanship of the Secretary (Envt.) Puducherry. River Rejuvenation Committee meeting was conducted on 04.06.2026 under the Chairmanship of the Member Secretary, PPCC.
XIII	Latest water quality of polluted river, distributaries, drains with flow details and ground water quality in the catchment of polluted river	Common STP Water Quality Data, Chunnambar and Arasalar River water quality data are given in **Annexure–I.**
XIV	Ground water regulation:	Pondicherry Ground Water Authority had closed 6 Nos. of tube wells in Puducherry region and 2 Nos. of tube wells in Karaikal Region during the past 5years due to illegal extraction of ground water.
XV	Good irrigation practices being adopted by the State:	**Annexure–II.**
XVI	Rain Water Harvesting:	The planning authorities while issuing occupancy certificate ascertain that the conditions stipulated in the building permits regarding rain water harvesting measures have been complied with. The Puducherry Ground Water Authority does not issues fresh permits/renews permits to any industries/ institutions unless Rain Water Harvesting System is installed in their respective buildings. 886 Rain Water Harvesting structure are constructed in the U.T of Puducherry by Department of Agriculture, Ground Water Authority and PWD.
XVII	Demarcation of Flood plain and removal of illegal encroachments:	The illegal encroachments in Karaikal region for the demarcation of Flood plain has been cleared by the Department.
XVIII	Maintaining minimum e–flow of river:	Illegal sand miming affect e-flow in the rivers. Hence, orders u/s 144 of CrPc were issued on 1st April, 2019 prohibiting lorries, vans, two wheelers, bullock carts and any similar sand carrying vehicles. Check dams were constructed to regulate the flow.
XIX	Plantation activities along the rivers:	For the development of green belt along Chunnambar, Forest Department has planted 4000 trees.
XX	Development of bio-diversity park:	It was proposed to develop Bio-Diversity Park in the existing Mangrove areas of Karaikal Beach. The Mangrove area to an extent of 11-09-30 Hectares belongs to Government and remaining 10-39-00 Hectares belongs to Private Owners. Hence the proposal of providing chain link fencing was dropped. Further a Court case was

		pending with the Hon'ble High Court of Madras. Hence the development work such as Chain link fencing, Construction of walkway and watch tower in the Mangrove area considering the ecological balance is deferred. Once the case is cleared the work will be initiated.
XXI	Reuse of Treated Water:	**Annexure-III**
XXII	Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:	Chunnambar River - Sankarabarani
XXIII	Status of Preparation of Action Plan by the 13 Coastal States:	Coastal Action Plan has been prepared by NCCR.
XXIV	Regulation of Mining Activities in the State/UT:	Illegal sand miming affect e-flow in the rivers. Hence, orders u/s 144 of CrPc were issued on 1st April, 2019 prohibiting lorries, vans, two wheelers, bullock carts and any similar sand carrying vehicles. Check dams were constructed to regulate the flow.
XXV	Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.	-

ANNEXURE – I

TC-17475

TEST REPORT

ULR : **TC174752600044496**
Report No. : **HECS/PE/10/290926**
Sample ID No : **290926017**
Sampling Date : **28/09/2026**

Name of the Client : **M/s. The Executive Engineer.,**

Address of the Client : **Public Health Division, PWD GOVT of Puducherry.**

Group : **Pollution & Environment**
Sample Name : **Waste Water**
Sample Mark : **STP Outlet Dubrayapet 15MLD**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems Limited.**
Sample Location : **NA**
Environmental Condition : **Temperature (°C) : 32.0 | Humidity (%) : 56.0**
Sampling Method & Plan : **IS 17614 (Part -10) : 2021**

Received Date : **29/09/2026**
Commenced Date : **29/09/2026**
Completed On : **05/10/2026**
Report Date : **05/10/2026**
Sample quantity : **2 Litres**

S.No.	Test Parameters	Units	Results	Test Method	NGT Effluent Discharge Limit For STP's (MAX)
Discipline : Chemical					
1	Bio-Chemical Oxygen Demand(BOD) 3 days @27 ° C	mg/l	7.0	IS 3025 Part 44: 2023	10
2	Chemical Oxygen Demand (COD)	mg/l	36.0	IS 3025 Part 58: 2023	50
3	pH value @ 25 ° C	-	7.42	IS 3025 (Part 11) Clause 2 2022	5.5-9.0
4	Total Phosphorous	mg/l	0.64	IS 3025 Part 31 Sec 1: 2022	1
5	Total Nitrogen as N	mg/l	7.26	HECS-G/ENV/WW/SOP/004 Issue No.:01 Issue Date:02.07.2020	10
6	Total suspended solids @ 105° C	mg/l	10.0	IS 3025 Part 17 : 2023	20

Note : BLQ : Below Limit of Quantification, LOQ: Limit of Quantification, mg/l: milligram per Litre.

Remarks: ETP Outlet as above parameters does not meets PPCC Standards.

End of Report

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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

TC-17476

TEST REPORT

ULR : **TC174752600044659**
Report No. : **HECS/PE/018/290926**
Sample ID No : **290926025**
Sampling Date : **28/09/2026**

Name of the Client : **M/s. The Executive Engineer.,**

Address of the Client : **Public Health Division, PWD GOVT of Puducherry**

Group : **Pollution & Environment**
Sample Name : **Effuluents&Waste**
Sample Mark : **STP Outlet Dubrayapet 15MLD**
Sample Reference : **NA**
Sample Drawn By : **M/s.Hubert Enviro care Systems Limited.**
Sample Location : **NA**
Environmental Condition : **Temperature (°C) : 32.0 | Humidity (%) : 56.0**
Sampling Method & Plan : **APHA 24th Edition Part 9260**

Received Date : **29/09/2026**
Commenced Date : **29/09/2026**
Completed On : **02/10/2026**
Report Date : **05/10/2026**
Sample quantity : **2 Litres**

S.No.	Test Parameters	Units	Results	Test Method	NGT Effluent Discharge Limit For STP's (MAX)
Discipline : Biological					
1	Faecal Coliform	MPN/100ml	84	APHA 24th Edition Chapter 9221 : 2023	100 (Desirable) 230 (Permissible)

Note:- MPN-Most Probable Number.

Remarks: STP Outlet as above parameters meets PPCC Standards.

End of Report

Dr. Rajkumar Samuel
Director Technical
Authorized Signatory

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

TC-17475

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by CPCB (MoEF & CC)
BIS FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

ULR : TC174752600044493
Report No. : HECS/PE/7/290926
Sample ID No : 290926014
Sampling Date : 28/09/2026

Name of the Client : M/s. The Executive Engineer.,

Address of the Client : Public Health Division, PWD GOVT of Puducherry.

Group : Pollution & Environment
Sample Name : Waste Water(All)
Sample Mark : STP Outlet Dubrayapet 17MLD
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited.
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0
Sampling Method & Plan : IS 17614 (Part -10) : 2021

Received Date : 29/09/2026
Commenced Date : 29/09/2026
Completed On : 05/10/2026
Report Date : 05/10/2026
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	NGT Effluent Discharge Limit For STP's (MAX)
Discipline : Chemical					
1	Bio-Chemical Oxygen Demand(BOD) 3 days @27 ° C	mg/l	7.40	IS 3025 Part 44: 2023	10
2	Chemical Oxygen Demand (COD)	mg/l	40.0	IS 3025 Part 58: 2023	50
3	pH value @ 25 ° C	-	7.50	IS 3025 (Part 11) Clause 2 2022	5.5-9.0
4	Total Phosphorous	mg/l	0.85	IS 3025 Part 31 Sec 1: 2022	1
5	Total Nitrogen as N	mg/l	7.90	HECS-G/ENV/WW/SOP/004 Issue No.:01 Issue Date:02.07.2020	10
6	Total suspended solids @ 105° C	mg/l	13.0	IS 3025 Part 17 : 2023	20

Note : BLQ : Below Limit of Quantification, LOQ: Limit of Quantification, mg/l: milligram per Litre.

Remarks: ETP Outlet as above parameters does not meets PPCC Standards.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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Hubert Enviro Care Systems Limited
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Guindy, Chennai - 600 032.
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TC-17475

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by CPCB (MoEF & CC)
BIS FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

ULR : TC174752600044656
Report No. : HECS/PE/15/290926
Sample ID No : 290926022
Sampling Date : 28/09/2026

Name of the Client : M/s. The Executive Engineer.,

Address of the Client : Public Health Division, PWD GOVT of Puducherry.

Group : Pollution & Environment
Sample Name : Effuluents&Waste
Sample Mark : STP Outlet Dubrayapet 17MLD
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited.
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0
Sampling Method & Plan : APHA 24th Edition Part 9260

Received Date : 29/09/2026
Commenced Date : 29/09/2026
Completed On : 02/10/2026
Report Date : 05/10/2026
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	NGT Effluent Discharge Limit For STP's (MAX)
Discipline : Biological					
1	Faecal Coliform	MPN/100ml	94	APHA 24th Edition Chapter 9221 : 2023	100 (Desirable) 230 (Permissible)

Note:- MPN-Most Probable Number.

Remarks: STP Outlet as above parameters meets PPCC Standards.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED
Chennai
600 032

Dr. Rajkumar Samuel
Director Technical
Authorized Signatory

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TEST REPORT

ULR : TC174752600044494
Report No. : HECS/PE/008/290926
Sample ID No : 290926015
Sampling Date : 28/09/2026

Name of the Client : M/s. The Executive Engineer.,

Address of the Client : Public Health Division, PWD GOVT of Puducherry

Group : Pollution & Environment
Sample Name : Waste Water
Sample Mark : STP Outlet Kanaguneri 17MLD
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited.
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0
Sampling Method & Plan : IS 17614 (Part -10) : 2021

Received Date : 29/09/2026
Commenced Date : 29/09/2026
Completed On : 05/10/2026
Report Date : 05/10/2026
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	NGT Effluent Discharge Limit For STP's (MAX)
Discipline : Chemical					
1	Bio-Chemical Oxygen Demand(BOD) 3 days @27 ° C	mg/l	9.6	IS 3025 Part 44: 2023	10
2	Chemical Oxygen Demand (COD)	mg/l	48.0	IS 3025 Part 58: 2023	50
3	pH value @ 25 ° C	-	7.60	IS 3025 (Part 11) Clause 2 2022	5.5-9.0
4	Total Phosphorous	mg/l	0.95	IS 3025 Part 31 Sec 1: 2022	1
5	Total Nitrogen as N	mg/l	8.5	HECS G/ENV/WW/SOP/004 Issue No.:01 Issue Date:02.07.2020	10
6	Total suspended solids @ 105° C	mg/l	12.0	IS 3025 Part 17 : 2023	20

Note : BLQ : Below Limit of Quantification, LOQ: Limit of Quantification, mg/l: milligram per Litre.

Remarks: ETP Outlet as above parameters does not meets PPCC Standards.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600044657
Report No. : HECS/PE/016/290926
Sample ID No : 290926023
Sampling Date : 28/09/2026

Name of the Client : M/s. The Executive Engineer.,

Address of the Client : Public Health Division, PWD GOVT of Puducherry

Group : Pollution & Environment
Sample Name : Effuluents&Waste
Sample Mark : STP Outlet Kanaguneri 17MLD
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited.
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0
Sampling Method & Plan : APHA 24th Edition Part 9260

Received Date : 29/09/2026
Commenced Date : 29/09/2026
Completed On : 02/10/2026
Report Date : 05/10/2026
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	NGT Effluent Discharge Limit For STP's (MAX)
Discipline : Biological					
1	Faecal Coliform	MPN/100ml	94	APHA 24th Edition Chapter 9221 : 2023	100 (Desirable) 230 (Permissible)

Note:- MPN-Most Probable Number.

Remarks: STP Outlet as above parameters meets PPCC Standards.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

Dr. Rajkumar Samuel
Director Technical
Authorized Signatory

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TEST REPORT

ULR : TC174752600044495
Report No. : HECS/PE/009/290926
Sample ID No : 290926016
Sampling Date : 28/09/2026

Name of the Client : M/s. The Executive Engineer.,

Address of the Client : Public Health Division, PWD GOVT of Puducherry

Group : Pollution & Environment
Sample Name : Waste Water
Sample Mark : STP Outlet Lawspet 17MLD
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited.
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0
Sampling Method & Plan : IS 17614 (Part -10) : 2021

Received Date : 29/09/2026
Commenced Date : 29/09/2026
Completed On : 05/10/2026
Report Date : 05/10/2026
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	NGT Effluent Discharge Limit For STP's (MAX)
Discipline : Chemical					
1	Bio-Chemical Oxygen Demand(BOD) 3 days @27 ° C	mg/l	8.6	IS 3025 Part 44: 2023	10
2	Chemical Oxygen Demand (COD)	mg/l	32.0	IS 3025 Part 58: 2023	50
3	pH value @ 25 ° C	-	7.50	IS 3025 (Part 11) Clause 2 2022	5.5-9.0
4	Total Phosphorous	mg/l	0.75	IS 3025 Part 31 Sec 1: 2022	1
5	Total Nitrogen as N	mg/l	7.1	HECS-G/ENV/WW/SOP/004 Issue No.:01 Issue Date:02.07.2020	10
6	Total suspended solids @ 105° C	mg/l	10.0	IS 3025 Part 17 : 2023	20

Note : BLQ : Below Limit of Quantification, LOQ: Limit of Quantification, mg/l: milligram per Litre.

Remarks: ETP Outlet as above parameters does not meets PPCC Standards.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

G.Saravanan
Technical Manager-Environmental
Authorized Signatory

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TEST REPORT

ULR : TC174752600044658
Report No. : HECS/PE/017/290926
Sample ID No : 290926024
Sampling Date : 28/09/2026

Name of the Client : M/s. The Executive Engineer.,

Address of the Client : Public Health Division, PWD GOVT of Puducherry

Group : Pollution & Environment
Sample Name : Effuluents&Waste
Sample Mark : STP Outlet Lawspet 17MLD
Sample Reference : NA
Sample Drawn By : M/s.Hubert Enviro care Systems Limited.
Sample Location : NA
Environmental Condition : Temperature (°C) : 29.0 | Humidity (%) : 51.0
Sampling Method & Plan : APHA 24th Edition Part 9260

Received Date : 29/09/2026
Commenced Date : 29/09/2026
Completed On : 02/10/2026
Report Date : 05/10/2026
Sample quantity : 2 Litres

S.No.	Test Parameters	Units	Results	Test Method	NGT Effluent Discharge Limit For STP's (MAX)
Discipline : Biological					
1	Faecal Coliform	MPN/100ml	84	APHA 24th Edition Chapter 9221 : 2023	100 (Desirable) 230 (Permissible)

Note:- MPN-Most Probable Number.

Remarks: STP Outlet as above parameters meets PPCC Standards.

End of Report

HUBERT ENVIRO CARE SYSTEMS LIMITED Chennai 600 032

Dr. Rajkumar Samuel
Director Technical
Authorized Signatory

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TEST REPORT

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/T057459
Test Certificate Date : 08-09-2026
Date of Receipt : 03-09-2026
Analysis Commenced On : 03-09-2026
Analysis Completed On : 08-09-2026

Customer Reference : SRF Dated : 03/09/2026
Laboratory No : 2727663/002
Sample Description : **STP Treated Water.**
(as stated by customer)
Sampling By Customer

S.No.	Test Parameters	Test Method	Unit	Results	NGT Effluent Discharge Limit For STPs
Discipline: Chemical					**Group: Pollution & Environment**
1	pH at 25°C	IS 3025 Part 11 - 2022 (electrometric method)	-	6.91	5.5 - 9.0
2	Total Suspended Solids	IS 3025 Part 17 - 2022	mg/l	18	20
3	Oil & Grease	IS:3025 Part 39:2021	mg/l	6	10
4	BOD @ 27°C for 3 days	IS 3025 Part 44 - 2023	mg/l	7	10
5	Chemical Oxygen Demand	IS 3025 Part 58-2023	mg/l	41	50
6	Total Nitrogen as N	IS 3025 Part 73 - 2021	mg/l	9.4	10
7	Total Phosphorous as P	IS 3025 Part 31/Sec 1 - 2022 (Stannous chloride method)	mg/l	0.19	-
Discipline: Biological					**Group: Pollution & Environment**
8	Faecal Coliform	APHA 24th Edition 2023 - 9221 E	MPN/100ml	190	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
V. GAJENDIRAN
Senior Chemist
Authorised Signatory

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Chunnambar River Water Quality Data - 2026			
Sl. No.	**Parameters**	**September**	**Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B (Water Used for Organised Outdoor Bathing) as per Environment (Protection) Rules, 1986**
1	**Date of sampling**	01.09.2026	--
2	**Time**	10.45 A.M	--
3	**Temp°C**	35.0	--
4	**pH**	7.85	6.5-8.5
5	**DO (mg/l)**	3.6	5 or more
6	**BOD (mg/l)**	2.5	3 or less
7	**Total Coliform MPN/100 ml**	220	--
8	**Faecal Coliform MPN/100ml**	6	500 (Desirable) and 2500 (Max. Permissible)
9	**Faecal Streptococci MPN/100ml**	11	100 (Desirable) and 500 (Max. Permissible)

Arasalar River Water Quality Data - 2026			
Sl. No.	**Parameters**	**September**	**Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B (Water Used for Organised Outdoor Bathing) as per Environment (Protection) Rules, 1986**
1	**Date of sampling**	01.09.2026	--
2	**Time**	07.15 A.M	--
3	**Temp°C**	28.0	--
4	**pH**	8.73	6.5-8.5
5	**DO (mg/l)**	5.0	5 or more
6	**BOD (mg/l)**	2.3	3 or less
7	**Total Coliform MPN/100 ml**	280	--
8	**Faecal Coliform MPN/100ml**	94	500 (Desirable) and 2500 (Max. Permissible)
9	**Faecal Streptococci MPN/100ml**	<1.8	100 (Desirable) and 500 (Max. Permissible)

MPN- Most Probable Number

ANNEXURE–II

ADOPTION OF GOOD IRRIGATION PRACTICE

1. It is proposed to cover more area under precision farming.
2. System of Rice Intensification (SRI) is popularized among the farming community as a water saving measure.
3. Sustainable Sugarcane Initiative (SSI) for reducing water consumption in sugarcane crops is also being popularized.
4. Attractive subsidy assistance is being extended to farmers for installation of Drip/Sprinkler irrigation devices.
5. Attractive subsidy assistance is being extended to farmers for laying underground pipelines for conveyance of irrigation water.

sANNEXURE-III

Reuse of Treated Water

Station	Purpose	Quantity
Lawspet STP	Fodder Grass raising	4.0 MLD
	Coconut Plantation	
	Silk cotton trees	
	Natural recharging through impounding reservoir and letting out through Karuvadikuppam drain simultaneously.	9.0 MLD
Dubrayapet STP	To Pondy Marina Hotel	0.3 MLD
Kanaganeri STP	--	--
	Total	**13.30 MLD**