

No. 6836/NGT/SLMC/SCI/2022/ 556  
GOVERNMENT OF PUDUCHERRY  
DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT  
PUDUCHERRY POLLUTION CONTROL COMMITTEE  
3<sup>rd</sup> Floor, I-Housing Board Complex, Anna Nagar, Puducherry - 5.  
Telephone: (0413) 2201256; Telefax: (0413) 2203494  
\*\*\*

Puducherry, the 12 SEP 2022

To

Shri.D.P.Mathuria  
Executive Director (Tech)  
National Mission for Clean Ganga  
Ministry of Jai Shakti,  
P<sup>th</sup> 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: Your Letter No. Legal/OA No. 673/2018/NMCG/2019 date 08.10.2020.

With reference to the above mentioned subject, Progress Report for the period May - July, 2022 is enclosed for kind perusal.

Yours sincerely,

  
(P. PRIYTARSHNY)  
DIRECTOR  
DSTE

Encl: 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.

**Format for submission of Monthly Progress Report in the NGT Matter  
OA No.673 of 2018 (in compliance to NGT order dated 24.09.2020)  
For the State of Puducherry**

**I. Overall status of the State (2011)**

Total Puducherry Population : 1247953  
Puducherry District Population : 950289  
Puducherry Urban Population : 657600 (950289x69.20%)  
Puducherry Rural Population : 292689 (950289x30.80%)

**II. Estimated Sewage Generation (MLD): 71 MLD (URBAN)**

**III. Details of Sewage Treatment Plant:**

1.	Existing no. of STPs and Treatment Capacity (in MLD): at Puducherry (68.5MLD)  Net Treatment capacity of STP's $68.5 - 5 = 63.5$ MLD	3 Nos. of SBR – 51 MLD 2 Nos. of UASB – 5 MLD ( <b>under maintenance</b> ) Oxidation Ponds – 12.5 MLD Total – 68.50 MLD
2.	Capacity Utilization of existing STPs: $(14.64+15.35+12.49+12.5)=54.98$ MLD $54.98/63.5=86.58\%$	54.98 MLD (86.58%)
3.	MLD of sewage being treated through Alternate technology: $(71-54.98=16.02)$ MLD)	16.02 MLD (on site sanitation like septic tank and soak pit etc.,)
4.	Gap in Treatment Capacity in MLD: $(63.5-54.98=8.52)$ MLD	8.52 MLD
5.	No. of Operational STPs:	4 Nos.
6.	No. of Complying STPs with respect to pH, TSS, COD & BOD	3 Nos.
7.	No. of Non-complying STPs:	1 No.* (Oxidation Pond)

**\*In order to reduce the BOD level in the Oxidation Ponds, Bio-Remediation is proposed to be taken up**

**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	63.50 MLD	86.58%	4	3
2	Karaikal	-	-	-	-
3	Mahe	-	-	-	-
4	Yanam	-	-	-	-

**Details of under construction STPs in the State**

Sl. No.	Location	Capacity of the plant in KLD	Physical Progress in %	Status of I & D or House sewer connections	Completion Time Line
Nil					

**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)	DPR for installation of STPs has been received from WAPCOS. Further action is in progress.	Could be furnished only after finalizing the tender based on DPR
2.	Karaikal	3 MLD (Abating river pollution at Arasalar River)	STP is proposed to be implemented with financial assistance from National River Conservation Directorate under National River Conservation Plan (NRCP) with 90% Central Assistance and 10% State shares.	
3.	Puducherry (Left out areas)	“EOI for Selection of Consultant for Formulation of detailed Project Report for the Underground Sewerage scheme including <b>Sewage Treatment Plant</b> for the left out Urban and Peri Urban areas of Puducherry and New Project for the entire region of Karaikal, Mahe and Yanam of U.T. of Puducherry”- 1 <sup>st</sup> call cancelled and invitation for 2 <sup>nd</sup> EOI to be made after getting approval from the Government.		-
4.	Karaikal (URBAN)			
5.	Mahe			
6.	Yanam			

#### **IV. Details of Industrial Pollution:**

1.	No. of industries in the State:	3271
2.	No. of Effluent generating industries in the State:	97
3.	Quantity of effluent generated from the industries in MLD:	4.75 MLD
4.	Quantity of Hazardous Sludge generated from the Industries in TPD:	10 TPD
5.	Number of industrial units having ETPs:	97
6.	Number of industrial units connected to CETP:	Nil
7.	Number and total capacity of ETPs (details of existing/ under construction/ proposed)	Existing-97 Capacity-4.75MLD
8.	Compliance status of the ETPs:	92
9.	Number and total capacity of CETPs (details of existing/ under construction/proposed)	Nil
10.	Status of compliance and operation of the CETPs	Nil

<b>Town</b>	<b>No. of industries</b>	<b>Industrial discharge</b>	<b>Status of ETPs</b>	<b>Status of CETPs (existing, under construction &amp; proposed)</b>
Puducherry	3271	4746.2KLD	Existing-97	Nil

### **V. Solid Waste Management:**

1.	Total number of Urban Local Bodies and their Population.	<b>Annexure I</b>	
2.	Current Municipal Solid Waste Generation.	382.5 TPD	
3.	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.	Composting	33.5 TPD
		Vermi Composting	1 TPD
		Bio-gas	2 TPD
		Material recovered/Recycled	34 TPD
4.	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap> 20%).	Proposed to have Energy recovery plant. Tenders finalized by PUDA for Integrated Solid Waste management system in Yanam and letter of award issued to M/s. Square LLP. Hyderabad and the work commenced from 08.12.2021.	
5.	No. and capacity of C&D waste processing Plants in TPD (existing, proposed and under construction).	There is no processing plant of C&D Waste.  At present C&D waste is being collected and stored in earmarked area.  C&D waste Generation – 29.35 TPD. A DPR is completed for setting up of C & D waste processing plant at Puducherry on DBFOOT basis.	
6.	Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source.	In all wards	
7.	Details of MSW treatment facilities proposed and under construction (no. capacity and technology).	2	
8.	No. and area (in acres) of uncontrolled Garbage dumpsites and Sanitary Landfills.	3 Nos. of controlled Landfills  Puducherry :23.0 Karaikal :8.32 Yanam :0.618 Total 31.938Acres	
9.	No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers.	Nil	
10.	No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers.	All the drains that reaches the Sankaraparani and Arasalar rivers were identified and in-situ remediation of providing grill gratings and bar screen are completed in all the 172 drains.	

Action has been initiated for disposal of legacy waste from the existing Kurumbapet dumping site, through Bio-remediation & Bio-mining with complete reclamation of the dumpsite land in compliance with Solid waste Management Rules, 2016, M/s Zigma Global Environ Solutions Private Limited., Erode. PPCC has issued authorization for processing of legacy waste under SWM Rules, 2016 on 07.01.2022. So far 2.00lakhs MT of Legacy waste have been processed. During processing of Legacy waste they are segregating clothes, plastics, metals, tyres, glasses and stones. Plastics and clothes are disposed through Co-processing. Other materials like glasses, metals and tyres are disposed through recyclers.

- DPR is completed for setting up of daily garbage Processing unit in Kurumbapet for Puducherry urban agglomeration area.
- Implementation of Setting up of Material Recovery facility (MRF) for Non-recyclable waste of 4 TPD in Dubrayapet for the coastal wards of Pondicherry Municipality has been completed.
- DPR is completed for Setting up Material Recovery Facility (MRF) for 10 TPD Recyclable Plastic waste from Pondicherry and Oulgaret Municipality.

#### **Status of ULB wise Management of Solid Waste**

<b>ULB</b>	<b>Total MSW generation inTPD</b>	<b>Total MSW being processed in TPD</b>	<b>Existing MSW facilities</b>	<b>Utilization Capacity of the existing MSW facilities</b>	<b>Proposed MSW Facilities &amp; Completion Time line</b>
5	382.5	58.02 TPD	3	15.1 %	6 months

#### **VI. Bio-medical Waste Management:**

1	Total Bio-medical generation:	4638 kg/day
2	No. of Hospitals and Health Care Facilities:	295
3	Status of Treatment Facility/CBMWTF:	One Common Bio-Medical Waste Treatment Facility functional.

**VII. Hazardous Waste Management:**

1	Total Hazardous Waste generation:	33483TPA
2	No. of Industries generating Hazardous waste	139 industries obtained authorisation.
3	Treatment Capacity of all TSDFs	-
4	Avg. Quantity of Hazardous waste reaching the TSDFs and Treated.	TSDF: Land fillable Waste reached- M/s. Mother Earth Enviro Tech, Bangalore – 76.94 MT - May, 2022 229.82 MT – June, 2022 153.69 MT – July, 2022
5	Details of on-going or proposed TSDF	The TSDF located in neighboring states is being shared.

### **VIII. Plastic Waste Management:**

1	Total Plastic Waste generation:	12775 TPA
2	Treatment/Measures adopted for reduction or management of plastic waste:	<p>Government of Puducherry has imposed total ban on single use plastics with effect from 02/08/2019.</p> <p>Surprise inspections are being carried out.</p> <p>As per the direction of MoEF &amp; 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).</p> <p>As per the order of Hon’ble NGT, Bahour Commune Panchayat (BCP) has been declared as Single Use Plastic Free Commune.</p> <p>Public notice has been issued on 22.02.2022 in Local dailies for elimination of Single Use Plastics in English and vernacular language.</p> <p>A circular dated 24.02.2022 has been issued in all colleges to declare their campus as SUP free campus as per the direction of CPCB, Delhi.</p> <p>A consultation meeting on “Elimination of single use plastics’ with Local Authorities like District Magistrate, Director, LAD, Supdt. Of Police and Commissioners of all Local Bodies was convened on 11.04.2022.</p> <p>Conducted a Technical session on laying of road using waste plastics on</p>



		<p>18.04.2022. A pilot scale road was laid for about 200mts at Edayarpalayam, Ariyankuppam Commune Panchayat in co-ordination</p> <p>With Prof.Dr.Vasudevaiah, Thiagarajar College of Engineering, Madurai.</p> <p>Hon'ble Chief Minister Inaugurated the LED van for creating awareness on PWM was held on 05.06.2022.</p> <p>77 drives were made and 95 kg of SUP items have been seized by Local bodies. Rs.20,900/- was levied as fine.</p> <p>Implementation of Single Use Plastic (SUP) as per the notification of MoEF&amp;CC, GOI is being strictly implemented by Local bodies and monitored by PPCC.</p> <p>Interaction meeting with the Local bodies of Puducherry, Karaikal, Mahe and Yanam and demo of SUP Portal and Apps of CPCB was held on 13.07.2022.</p> <p>Interaction meeting with the Local bodies of Karaikal, for demo of SUP Portal and APPS of CPCB was held on 10.08.2022 under the Chairmanship of the Collector, Karaikal.</p>
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 gratings and bar screen are completed in all the 172 drains.

XI	Details of Nodal Officer appointed by Chief Secretary in the State/UT:	Secretary (Env't.) DSTE
XII	Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT:	5th State Level Monitoring Committee on Solid Waste Management was held on 21.07.2022.
XIII	Latest water quality of polluted river, its tributaries, drains with flow details and groundwater quality in the catchment of polluted river;	Common STP Water Quality Data and River water quality data of Chunnambar are given in <b>Annexure-II</b> .
XIV	Ground water regulation:	Pondicherry Ground Water Authority had closed 6 Nos. of tube wells in Puducherry region and 2 Nos. of tubewells in Karaikal Region during the past 5 years due to illegal extraction of groundwater.
XV	Good irrigation practices being adopted by the State:	<b>Annexure- III</b>
XVI	Rain Water Harvesting:	<p>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.</p> <p>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.</p> <p>882 Rain Water Harvesting structure are constructed in the U.T of Puducherry by Department of Agriculture.</p> <p>No. of Rain Water Harvesting structure by PWD - 262.</p>
XVII	Demarcation of Flood plain and removal of Illegal encroachments:	<b>Annexure – IV</b>

XVIII	Maintaining minimum –flow of river:	Illegal sand mining affect e-flow in the rivers. Hence, DCR(South) has imposed Prohibitory order u/s 144 of CrPc on 1st April, 2019 prohibiting lorries, vans, two wheelers, bullock carts and any similar load carrying vehicles. Check dams were constructed to regulate the flow.
XIX	Plantation activities along the rivers:	Forest Department has planted 80,300 trees in and around Puducherry.
XX	Development of bio-diversity park:	Along the Arasalar River bed, Mangrove area of 25 acres have been identified as Bio Diversity Park and sign board with species name is provided. Biodiversity Assessment in the Mangrove Forest of Karaikal is carried out by Universal Eco Foundation, Puducherry.
XXI	Reuse of Treated Water:	<b>Annexure-V</b>
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:	Action plan submitted to .CPCB dt.24.02.2020. Stake holder consultation meeting was conducted with officials of Government of Puducherry and NCCR on 05.07.2022. NCCR has agreed for technical support in preparing the coastal action plan by monitoring the coastal water as requested by PPCC.
XXIV	Regulation of Mining Activities in the State/UT:	Special Task Team has been constituted under the Chairmanship of Deputy Collector in each district for curtailing illegal sand mining and its transportation. 44 cases have been booked against illegal sand miners and Rs.9.1 lakhs were collected as fine. 144 has been imposed in illegal sand mining prone area.
XXV	Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.	-

**ANNEXURE-I****Details of Solid Waste Generation in Urban Local Bodies (Municipalities)**

<b>Sl. No</b>	<b>Name of the Municipality</b>	<b>Total Population as per census 2011</b>	<b>Total Quantity of waste generation in TPD</b>
1.	Puducherry	2,44,700	155
2.	Oulgaret	3,00,104	155
3.	Karaikal	86,838	40
4.	Mahe	41,816	12.5
5.	Yanam	55,628	12
<b>Total</b>			<b>382.5</b>

Chunnambar River Water Quality Data			
S.No	Parameters	Jul-22	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B
1	Date of sampling	25-07-2022	
2	Time	11.30 AM	
3	Temp°C	31.0	
4	pH	8.90	6.5-8.5
5	DO (mg/l)	5.4	5 or more
6	BOD (mg/l)	BDL (DL:1)	3 or less
7	Total Coliform MPN/100 ml	540	
8	Faecal Coliform MPN/100ml	220	500 (Desirable) and 2500 (Max. Permissible)
9	Faecal Streptococci MPN/100ml	<1.8	100 (Desirable) and 500 (Max. Permissible)

Arasalar River Water Quality Data			
S.No	Parameters	Jul-22	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B
1	Date of sampling	28.07.2022	
2	Time	6.00 A.M	
3	Temp°C	28.2	
4	pH	7.76	6.5-8.5
5	DO (mg/l)	6.0	5 or more
6	BOD (mg/l)	2.2	3 or less
7	Total Coliform MPN/100 ml	<2	
8	Faecal Coliform MPN/100ml	< 2	500 (Desirable) and 2500 (Max. Permissible)
9	Faecal Streptococci MPN/100ml	< 2	100 (Desirable) and 500 (Max. Permissible)

BDL - Below Detection Limit; DL - Detection Limit  
MPN- Most Probable Number

**GOVERNMENT OF PUDUCHERRY  
OFFICE OF THE BIOCHEMIST  
WATER TESTING LABORATORY  
P.H.D., P.W.D., PUDUCHERRY**  
(An ISO/IEC 17025: 2017 NABL Accredited Laboratory)



Report No. : TR/WTL/PHD/PWD/PDY/2022/W-0857  
ULR-TC75802100000344F

Date: 19.07.2022

**TEST REPORT**

**Customer Name & Address** : The Assistant Engineer,  
Drainage Sub-division, PHD, PWD, Puducherry.

**Customer Reference** : Test requested No. Nil, dt. 12.07.2022

Page 1 of 1

**SAMPLE DETAILS**

Sample Code	: 2022/W-0857	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 32.5°C	Sampling Location	: Lawspet STP Outlet
Identification by Customer	: Sample 2	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 12.07.2022
Test Started on	: 12.07.2022	Test Completed on	: 19.07.2022

**TEST RESULTS**

Sl.NO	Test Parameter	Test Method	Units	Results
1	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B	--	7.12
2	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	BDL (DL:10.0)
3	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	25.8
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	9.0
5	Total Phosphate as PO <sub>4</sub>	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	2.12

Note: BDL : Below Detection Limit, DL : Detection Limit

**Authorized Signatory**

**Vimala Venkatachalam**  
BIOCHEMIST  
WATER TESTING LABORATORY  
PUBLIC HEALTH DIVISION  
P.W.D., PUDUCHERRY.

Copy Submitted to:

The Executive Engineer,  
P.H.D., P.W.D., Puducherry.

**Terms and Conditions:**

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P.H.D., P.W.D., PUDUCHERRY**

Report No. : TR/WTL/PHD/PWD/PDY/2022/W-0857 (Annexe)

Date: 19.07.2022

**TEST REPORT**

**Customer Name & Address** : The Assistant Engineer,  
Drainage Sub-division, PHD, PWD, Puducherry.

**Customer Reference** : Test requested No. Nil, dt. 12.07.2022

Page 1 of 1

**SAMPLE DETAILS**

Sample Code	: 2022/W-0857	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 32.5°C	Sampling Location	: Lawspet STP Outlet
Identification by Customer	: Sample 2	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 12.07.2022
Test Started on	: 12.07.2022	Test Completed on	: 19.07.2022

**TEST RESULTS**

Sl.NO	Test Parameter	Test Method	Units	Results
1	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	0.70
2	Nitrate as NO <sub>3</sub>	APHA, 23rd Edn, 2017, 4500-NO <sub>3</sub> B	mg/L	<5

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

**Authorized Signatory**



Vimala Venkatachalam  
BIOCHEMIST  
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Report No. : TR/WTL/PHD/PWD/PDY/2022/W-0859  
ULR-TC75802100000346F

Date: 19.07.2022

**TEST REPORT**

**Customer Name & Address** : The Assistant Engineer,  
Drainage Sub-division, PHD, PWD, Puducherry.

**Customer Reference** : Test requested No. Nil, dt. 12.07.2022

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**SAMPLE DETAILS**

Sample Code	: 2022/W-0859	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 32.4°C	Sampling Location	: Dubrayat STP Outlet
Identification by Customer	: Sample 4	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 12.07.2022
Test Started on	: 12.07.2022	Test Completed on	: 19.07.2022

**TEST RESULTS**

Sl.NO	Test Parameter	Test Method	Units	Results
1	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B	--	7.24
2	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	BDL (DL:10.0)
3	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	21.0
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	8.0
5	Total Phosphate as PO <sub>4</sub>	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	2.86

Note: BDL : Below Detection Limit, DL : Detection Limit

Authorized Signatory

Vimala Venkatachalam  
BIOCHEMIST  
WATER TESTING LABORATORY  
PUBLIC HEALTH DIVISION  
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Report No. : TR/WTL/PHD/PWD/PDY/2022/W-0859 (Annexe)

Date: 19.07.2022

**TEST REPORT**

**Customer Name & Address** : The Assistant Engineer,  
Drainage Sub-division, PHD, PWD, Puducherry.  
**Customer Reference** : Test requested No. Nil, dt. 12.07.2022

Page 1 of 1

**SAMPLE DETAILS**

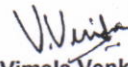
Sample Code	: 2022/W-0859	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water	Sampling Location	: Dubrayat STP Outlet
Temperature at the time of receipt	: 32.4°C	Sampling Procedure	: --
Identification by Customer	: Sample 4	Sample Received on	: 12.07.2022
Sample Condition	: Fit for analysis	Test Completed on	: 19.07.2022
Test Started on	: 12.07.2022		

**TEST RESULTS**

Sl.NO	Test Parameter	Test Method	Units	Results
1	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	0.95
2	Nitrate as NO <sub>3</sub>	APHA, 23rd Edn, 2017, 4500-NO <sub>3</sub> B	mg/L	<5

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

**Authorized Signatory**

  
**Vimala Venkatachalam**  
BIOCHEMIST  
WATER TESTING LABORATORY  
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WATER TESTING LABORATORY  
P.H.D., P.W.D., PUDUCHERRY**  
(An ISO/IEC 17025: 2017 NABL Accredited Laboratory)



Report No. : TR/WTL/PHD/PWD/PDY/2022/W-0861  
ULR-TC75802100000348F

Date: 19.07.2022

**TEST REPORT**

**Customer Name & Address** : The Assistant Engineer,  
Drainage Sub-division, PHD, PWD, Puducherry.

**Customer Reference** : Test requested No. Nil, dt. 12.07.2022

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**SAMPLE DETAILS**

Sample Code	: 2022/W-0861	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 31.9°C	Sampling Location	: Kanagan Eri STP Outlet
Identification by Customer	: Sample 6	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 12.07.2022
Test Started on	: 12.07.2022	Test Completed on	: 19.07.2022

**TEST RESULTS**

Sl.NO	Test Parameter	Test Method	Units	Results
1	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B	--	7.10
2	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	BDL (DL:10.0)
3	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	23.0
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	7.00
5	Total Phosphate as PO <sub>4</sub>	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	2.32

Note: BDL : Below Detection Limit, DL : Detection Limit

**Authorized Signatory**

**Vimala Venkatachalam**  
BIOCHEMIST  
WATER TESTING LABORATORY  
PUBLIC HEALTH DIVISION  
P.W.D., PUDUCHERRY.

**Copy Submitted to:**

The Executive Engineer,  
P.H.D., P.W.D., Puducherry.

**Terms and Conditions:**

1. The test result relevant only to the item tested.
2. The tested report shall not be reproduced in full or part without written approval of WTL-PHDPWD.
3. The laboratory is not responsible for the authenticity of photocopied test report.
4. The test item will not be retained for more than 15 days from the date of issue of test report except in case as required by applicable regulations.
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**GOVERNMENT OF PUDUCHERRY  
OFFICE OF THE BIOCHEMIST  
WATER TESTING LABORATORY  
P.H.D., P.W.D., PUDUCHERRY**

Report No. : TR/WTL/PHD/PWD/PDY/2022/W-0861 (Annexe)

Date: 19.07.2022

**TEST REPORT**

**Customer Name & Address** : The Assistant Engineer,  
Drainage Sub-division, PHD, PWD, Puducherry.

**Customer Reference** : Test requested No. Nil, dt. 12.07.2022

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**SAMPLE DETAILS**

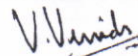
Sample Code	: 2022/W-0861	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 31.9°C	Sampling Location	: Kanagan Eri STP Outlet
Identification by Customer	: Sample 6	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 12.07.2022
Test Started on	: 12.07.2022	Test Completed on	: 19.07.2022

**TEST RESULTS**

Sl.NO	Test Parameter	Test Method	Units	Results
1	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	0.77
2	Nitrate as NO <sub>3</sub>	APHA, 23rd Edn, 2017, 4500-NO <sub>3</sub> B	mg/L	<5

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

Authorized Signatory



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Report No. : TR/WTL/PHD/PWD/PDY/2022/W-0935 (Annexe)

Date: 02.08.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,  
Drainage Sub-division, PHD, PWD, Puducherry.

Customer Reference : Test requested No. Nil, dt. 22.07.2022

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SAMPLE DETAILS

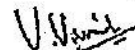
Sample Code	: 2022/W-0935	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 31.7°C	Sampling Location	: Oxidation Pond Outlet
Identification by Customer	: Sample 2	Sampling Procedure	: --
Sample Condition	: Fit for analysis.	Sample Received on	: 22.07.2022
Test Started on	: 22.07.2022	Test Completed on	: 02.08.2022

TEST RESULTS

Sl.NO	Test Parameter	Test Method	Units	Results
1	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	3.86
2	Nitrate as NO <sub>3</sub>	APHA, 23rd Edn, 2017, 4500-NO <sub>3</sub> B	mg/L	<5

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

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PUBLIC HEALTH DIVISION  
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GOVERNMENT OF PUDUCHERRY  
OFFICE OF THE BIOCHEMIST  
WATER TESTING LABORATORY  
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Report No. : TR/WTL/PHD/PWD/PDY/2022/W-0935  
ULR-TC75802100000422F

Date: 02.08.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,  
Drainage Sub-division, PHD, PWD, Puducherry.

Customer Reference : Test requested No. Nil, dt. 22.07.2022

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SAMPLE DETAILS

Sample Code	: 2022/W-0935	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: -
Sample Description	: Waste water		
Temperature at the time of receipt	: 31.7°C	Sampling Location	: Oxidation Pond Outlet
Identification by Customer	: Sample 2	Sampling Procedure	: -
Sample Condition	: Fit for analysis	Sample Received on	: 22.07.2022
Test Started on	: 22.07.2022	Test Completed on	: 02.08.2022

TEST RESULTS

Sl.NO	Test Parameter	Test Method	Units	Results
1.	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B	-	6.79
2.	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	BDL (0-100)
3.	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	47
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part 4; (1994); RA2014	mg/L	27
5.	Total Phosphate as PO <sub>4</sub>	APHA, 23rd Edn, 2017, 4500-P-B-C	mg/L	11.6

Note: BDL : Below Detection Limit. DL : Detection Limit

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

Authorized Signatory

*V. Venkatachalam*

Vimala Venkatachalam  
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WATER TESTING LABORATORY  
PUBLIC HEALTH DIVISION  
P.W.D., PUDUCHERRY.

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## **ANNEXURE-III**

### **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.

**ANNEXURE-IV****PROTECTION AND MANAGEMENT OF FLOOD PLAIN ZONES (FPZ)**

<b>Sl. No.</b>	<b>Key components of proposed action plans for restoration of identified polluted river stretches in States/UTs</b>	<b>Proposed Achievable Target</b>	<b>Proposed Time Targets for Compliance</b>	<b>Present status and or Pendency in terms of %</b>	<b>Remarks</b>
<b>1.</b>	Flood Plain Zone protection and its management	Proposal submitted for approval of 50.00Crore.	2020-2025	The Karaikal Region is receiving water from the Seven Cauvery distributaries from Tamilnadu. The flood / excess water due to rainfall run off will be released and regulated by Tamilnadu Irrigation Division from the upper reaches through these seven distributaries. The river banks and the inspection tracks are almost strengthened to receive the flood water from upper reaches in Tamilnadu and to dispose safely to the Ocean (Bay of Bengal). However flood protection scheme works has been included under Flood Management and Border Area Program for an amount of Rs. 50 Crore in the proposal for the period from 2020-2025 for getting approval from Government. The details are enclosed, in which for protecting the Arasalar river bank an estimate for an amount of Rs.10.00 Crore is earmarked to protect the Left Bank of Arasalar river above tail end regulator at Melaoduthurai.	After getting approval of works under Flood Management and Border Area Programme, DPR will be submitted

**ANNEXURE-V**

**Reuse of Treated Water**

Station	Purpose	Quantity
Lawspet STP	Industrial usage	0.8 MLD
	Fodder Grass raising	6 MLD
	Coconut Plantation	
	Silk cotton trees	
	Natural recharging through impounding reservoir	9 MLD
Dubrayapet STP	To Pondy Marina Hotel	0.3 MLD
	<b>Total</b>	<b>16.10 MLD</b>