

No. 6836/NGT/SLMC/SCI/2022/ 582 - A
GOVERNMENT OF PUDUCHERRY
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 28 SEP 2022

To

Shri.D.P.Mathuria
Executive Director (Tech)
National Mission for Clean Ganga
Ministry of Jai Shakti,
P' 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 month of Aug, 2022 is enclosed for kind perusal.

Yours sincerely,


(P. PRIYTARSHNY)
DIRECTOR
DSTE

o/c


23/9/2022

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.


28/9/2022
DESPATCHED

**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 (under maintenance – estimation is under preparation) Oxidation Ponds – 12.5 MLD Total – 68.50 MLD
2.	Capacity Utilization of existing STPs: $(14.97+15.31+13.25+12.5)= 56.05$ MLD $56.05/63.5=88.27\%$	56.05MLD (88.27%)
3.	MLD of sewage being treated through Alternate technology: $(71-56.05=14.95)$ MLD)	14.95 MLD (on site sanitation like septic tank and soak pit etc.,)
4.	Gap in Treatment Capacity in MLD: $(63.5-56.05=7.45)$ MLD	7.45 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	88.27%	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 3 MLD STP at Sankaraparani river has been submitted under AMRUT scheme for sanction. The scheme will be implemented and completed before March 2023.	The scheme will be implemented and completed before March 2023. The plant will be installed before June 2023.
2.	Karaikal	2 MLD (Abating river pollution at Arasalar River)	DPR for installation of 2 MLD STP at Arasalar river has been prepared and being submitted under AMRUT scheme for sanction. The scheme will be implemented and completed before March 2023. A DPR for installation of 15 MLD STP at Dubrayapet has been submitted for sanction under AMRUT scheme to bridge the gap in treatment of sewage generation in Puducherry region. The plant will be installed before June 2023.	
3.	Puducherry (Left out areas)	Providing underground drainage system for remaining urban areas with STP.		
4.	Karaikal (URBAN)	EoI submitted for approval	- Sanction awaited.	
5.	Mahe	Inviting EoI	- October 2022	
		Appointment of consultant	- November 2022	
		Formulation of DPR	- January 2023	
6.	Yanam	Availing Loan Sanction	- March 2023	
		Tendering Process & issue of work order - April 2023		
		Implementation	- March 2024	

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:	95
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	4746.2KLD	Existing-97	Nil

V. Solid Waste Management:

1.	Total number of Urban Local Bodies and their Population.	Annexure I	
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, by M/s Zigma Global Environ Solution Pvt. Ltd., Erode. PPCC has issued authorisation for processing of Legacy waste under SWM Rules, 2016, on 07.01.2022.

So far, 2.88 lakhs 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.

For setting up of daily garbage Processing unit in Kurumbapet for Puducherry urban agglomeration area, DPR is under process.

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.

For Setting up Material Recovery Facility (MRF) for 20 TPD Recyclable Plastic waste from Pondicherry and Oulgaret Municipality, MoU is under process.

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Time line
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 – 207.36 T
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:	Government of Puducherry has imposed total ban on single use plastics with effect from 02/08/2019. 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). As per the order of Hon’ble NGT, Bahour Commune Panchayat (BCP) has been declared as Single Use Plastic Free Commune. Public notice has been issued on 22.02.2022 in Local dailies for elimination of Single Use Plastics in English and vernacular language. A circular dated 24.02.2022 has been issued to all colleges to declare their campus as SUP free campus as per the direction of CPCB, Delhi. 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. Conducted a Technical session on laying of road using waste plastics on 18.04.2022. A pilot scale road was laid on 19.04.2022 for about 200mts at Edayarpalayam,

		Ariyankuppam Commune Panchayat in co-ordination with Prof. Dr. Vasudevaiah, Thiagarajar College of Engineering, Madurai. Hon'ble Chief Minister Inaugurated the LED van on 05.06.2022 for creating awareness on PWM. 47 drives were made and 4.65 kg of SUP items have been seized by Local bodies. Rs.4,450/- was levied as fine. 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. 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. 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. 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.
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:	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:	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 and Arasalar are given in Annexure-II .
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:	Annexure- III
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. 882 Rain Water Harvesting structure are constructed in the U.T of Puducherry by Department of Agriculture. No. of Rain Water Harvesting structure by PWD - 262.
XVII	Demarcation of Flood plain and removal of Illegal encroachments:	Annexure – IV

XVIII	Maintaining minimum –flow of river:	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 during 2021-2022. 144 has been imposed in illegal sand mining prone area.
XIX	Plantation activities along the rivers:	Forest Department has planted 4000 trees.
XX	Development of bio-diversity park:	On the Bank of Arasalar River, 11-99-30 hectares of Mangrove forest has been demarked as bio- diversity park. Letter dt. 12.09.2022 has been sent to Forest Department requesting to Notify the Mangrove area to an extent of 11-99-30 hectares belonging to Government of Puducherry as Bio-diversity Park as per the relevant Forest Act.Sign board in this regard has been installed. Biodiversity Assessment in the Mangrove Forest of Karaikal is carried out between July 2021 and December 2021. The study is extended for further six month period to cover the entire season.
XXI	Reuse of Treated Water:	Annexure-V
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)**

Sl. No	Name of the Municipality	Total Population as per census 2011	Total Quantity of waste generation in TPD
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
Total			382.5

GOVERNMENT OF PUDUCHERRY
OFFICE OF THE BIOCHEMIST
WATER TESTING LABORATORY
P.H.D., P.W.D., PUDUCHERRYReport No. : TR/WTL/PHD/PWD/PDY/2022/W-1048
ULR-TC75802100000527F

Date: 22.08.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,
Drainage Sub-division, PHD, PWD, Puducherry.
Customer Reference : Letter No. Nil, dt. 10.08.2022

Page 1 of 1

SAMPLE DETAILS

Sample Code	: 2022/W-1048	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 33.3°C	Sampling Location	: Kanaganeri Outlet
Identification by Customer	: Sample 6	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 10.08.2022
Test Started on	: 10.08.2022	Test Completed on	: 22.08.2022

TEST RESULTS

Sl.NO	Test Parameter	Test Method	Units	Results
1	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B	--	7.03
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	11.8
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	4.0
5	Total Phosphate as PO ₄	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	5.84

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

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

Authorized Signatory

Vimala Venkatachalam
BIOCHEMIST
WATER TESTING LABORATORY
PUBLIC HEALTH DIVISION
P.W.D., PUDUCHERRY.Copy Submitted to:The Executive Engineer,
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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-1048 (Annexe)

Date: 22.08.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,
Drainage Sub-division, PHD, PWD, Puducherry.
Customer Reference : Letter No. Nil, dt. 10.08.2022

Page 1 of 1

SAMPLE DETAILS

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Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 33.3°C	Sampling Location	: Kanaganeri Outlet
Identification by Customer	: Sample 6	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 10.08.2022
Test Started on	: 10.08.2022	Test Completed on	: 22.08.2022

TEST RESULTS

Sl.NO	Test Parameter	Test Method	Units	Results
1	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	1.9
2	Nitrate as NO ₃	APHA, 23rd Edn, 2017, 4500-NO ₃ B	mg/L	<5
3	Faecal Coliforms	WHO Guidelines for drinking water Quality - Vol3	MPN/100 ml	<200per 100ml

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

Authorized Signatory


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

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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-1046
ULR-TC75802100000525F

Date: 22.08.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,
Drainage Sub-division, PHD, PWD, Puducherry.
Customer Reference : Letter No. Nil, dt. 10.08.2022

Page 1 of 1

SAMPLE DETAILS

Sample Code	: 2022/W-1046	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 33.4°C	Sampling Location	: Dubrayapet Outlet
Identification by Customer	: Sample 4	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 10.08.2022
Test Started on	: 10.08.2022	Test Completed on	: 22.08.2022

TEST RESULTS

Sl.NO	Test Parameter	Test Method	Units	Results
1	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B	--	7.47
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	8.89
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	3.0
5	Total Phosphate as PO ₄	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	2.39

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

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

Authorized Signatory

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

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OFFICE OF THE BIOCHEMIST
WATER TESTING LABORATORY
P.H.D., P.W.D., PUDUCHERRY

Report No. : TR/WTL/PHD/PWD/PDY/2022/W-1046 (Annexe)

Date: 22.08.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,
Drainage Sub-division, PHD, PWD, Puducherry.
Customer Reference : Letter No. Nil, dt. 10.08.2022

Page 1 of 1

SAMPLE DETAILS

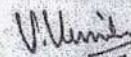
Sample Code	: 2022/W-1046	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 33.4°C	Sampling Location	: Dubrayapet Outlet
Identification by Customer	: Sample 4	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 10.08.2022
Test Started on	: 10.08.2022	Test Completed on	: 22.08.2022

TEST RESULTS

Sl.NO	Test Parameter	Test Method	Units	Results
1	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	0.79
2	Nitrate as NO ₃	APHA, 23rd Edn, 2017, 4500-NO ₃ B	mg/L	<5
3	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/100 ml	<200per 100ml

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

Authorized Signatory



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OFFICE OF THE BIOCHEMIST
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P.H.D., P.W.D., PUDUCHERRY



Report No. : TR/WTL/PHD/PWD/PDY/2022/W-1044
ULR-TC75802100000523F

Date: 22.08.2022

TEST REPORT

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

Customer Reference : Letter No. Nil, dt. 10.08.2022

Page 1 of 1

SAMPLE DETAILS

Sample Code	: 2022/W-1044	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 33.4°C	Sampling Location	: Lawspet Outlet
Identification by Customer	: Sample 2	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 10.08.2022
Test Started on	: 10.08.2022	Test Completed on	: 22.08.2022

TEST RESULTS

Sl.NO	Test Parameter	Test Method	Units	Results
1	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B	--	6.90
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	13.8
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	6.0
5	Total Phosphate as PO ₄	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	5.12

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

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

Authorized Signatory

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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-1044 (Annexe)

Date: 22.08.2022

TEST REPORT

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

Customer Reference : Letter No. Nil, dt. 10.08.2022

Page 1 of 1

SAMPLE DETAILS

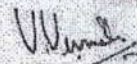
Sample Code	: 2022/W-1044	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 33.4°C	Sampling Location	: Lawspet Outlet
Identification by Customer	: Sample 2	Sampling Procedure	: --
Sample Condition	: Fit for analysis	Sample Received on	: 10.08.2022
Test Started on	: 10.08.2022	Test Completed on	: 22.08.2022

TEST RESULTS

Sl.NO	Test Parameter	Test Method	Units	Results
1	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	1.7
2	Nitrate as NO ₃	APHA, 23rd Edn, 2017, 4500-NO ₃ B	mg/L	<5
3	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/100 ml	<200 per 100ml

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

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.

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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-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

Page 1 of 1

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 (DL:10.0)
3	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	47
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	27
5	Total Phosphate as PO ₄	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
BIOCHEMIST
WATER TESTING LABORATORY
PUBLIC HEALTH DIVISION
P.W.D., PUDUCHERRY.

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GOVERNMENT OF PUDUCHERRY
OFFICE OF THE BIOCHEMIST
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P.H.D., P.W.D., PUDUCHERRY

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

Page 1 of 1

SAMPLE DETAILS

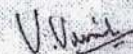
Sample Code	: 2022/W-0935	Sampled by	: Customer
Sample Name	: Waste water	Sampled on	: --
Sample Description	: Waste water		
Temperature at the time of receipt	: 31.7°C	Sampling Location	: Oxidation Pond Outlet
Identification by Customer	: Sample 2	Sampling Procedure	: --
Sample Condition	: Fit for analysis	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 ₃	APHA, 23rd Edn, 2017, 4500-NO ₃ B	mg/L	<5

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

Authorized Signatory



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

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Chunnambar River Water Quality Data - 2022			
S.No	Parameters	Aug-22	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B
1	Date of sampling	23.08.2022	
2	Time	11:30 A.M	
3	Temp°C	30°C	
4	pH	8.91	6.5-8.5
5	DO (mg/l)	6.7	5 or more
6	BOD (mg/l)	1.5	3 or less
7	Total Coliform MPN/100 ml	210	
8	Faecal Coliform MPN/100ml	33	500 (Desirable) and 2500 (Max. Permissible)
9	Faecal Streptococci MPN/100ml	40	100 (Desirable) and 500 (Max. Permissible)

Arasalar River Water Quality Data

S.No	Parameters	Aug-22	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B
1	Date of sampling	29.08.2022	
2	Time	6.00 PM	
3	Temp°C	32°C	
4	pH	7.83	6.5-8.5
5	DO (mg/l)	7.6	5 or more
6	BOD (mg/l)	BDL (DL-1.0)	3 or less
7	Total Coliform MPN/100 ml	920	
8	Faecal Coliform MPN/100ml	170	500 (Desirable) and 2500 (Max. Permissible)
9	Faecal Streptococci MPN/100ml	BDL (DL<1.8)	100 (Desirable) and 500 (Max. Permissible)

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

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)

Sl. No.	Key components of proposed action plans for restoration of identified polluted river stretches in States/UTs	Proposed Achievable Target	Proposed Time Targets for Compliance	Present status and or Pendency in terms of %	Remarks
1.	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 Meladuthurai.	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	1.0 MLD
	Fodder Grass raising	6.0 MLD
	Coconut Plantation	
	Silk cotton trees	
	Natural recharging through impounding reservoir	9 MLD
Dubrayapet STP	To Pondy Marina Hotel	0.3 MLD
	Total	16.30 MLD