No. 6836/NGT/SLMC/SCI/2022/ 696 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 F1 5 NOV 2022

To

8hri.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 October, 2022 is enclosed for kind perusal.

Yours sincerely,

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)	3 Nos. of SBR - 51 MLD
	Net Treatment capacity of STP's $56 - 5 = 51$ MLD	2 Nos. of UASB - 5 MLD (2 Nos. of UASB are non-operational, revamping and renovation works are proposed to be carried out. The DPR is under preparation) Total - 56 MLD
2.	Capacity Utilization of existing STPs: 11.59+15.22+10.93 = 37.74 MLD 37.74/51=74%	37.74 MLD (74 %)
3.	MLD of sewage being treated through Alternate technology: (71-56 = 20 MLD)	15 MLD (on site sanitation like septic tank and soak pit etc.,) DPR for 15 MLD has been prepared for Rs. 56.53 crore and has been sanctioned under AMRUT 2.0. It will be completed before June 2023.
4.	Gap in Treatment Capacity in MLD: (71-51 = 20 MLD)	20 MLD (Temporary Gap, 5 MLD UASB is under renovation)
5.	No. of Operational STPs:	3 Nos. (5 MLD UASB is under renovation)
6.	No. of Complying STPs with respect to pH, TSS, COD & BOD	3 Nos. BOD value (10.3 mg/l) is slightly higher than the standard limit 10 mg/l in one of the STPs.

Details of each existing STP in the State

SI.No.	Location	Existing STP Capacity	Capacity being Utilized	Operational Status of STP	Compliance Status of STP
1	Puducherry	56 MLD (5 MLD UASB is under renovation)	74 %	3	3
2	Karaikal	-	-	-	_
3	Mahe	-	-	-	-
4	Yanam			-	-0

Details of under construction STPs in the State

SI. 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

SI. 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)	Sankarabarani River, Villianur and 2 MLD capacity at Karaikal have been	di di
2.	Karaikal	2 MLD (Abating river pollution at Arasalar River)	obtained from the Consultant M/s. WAPCOS, Chennai amounting to a cost of Rs. 35.73 crores and Rs. 27.37 crores respectively (including maintenance cost for 15 years) and has been sanctioned under AMRUT 2.0 and GOP funds.	The scheme will be implemented and completed before June 2023.
3.	Puducherry (Left out areas)	CALCULATION OF THE PROPERTY OF	consultant for formulation of DPR sewerage scheme including STP for	
4.	Karaikal (URBAN)	new project for the e	peri urban areas of Puducherry and ntire region of Karaikal, Mahe and	21.02.2024
5.	Mahe	Yanam of U.T of Puducherry resubmitted after attending the remarks raised by the Secretary (Finance) for obtaining approval from the Government.		
6.	Yanam			

Idol immersion

- Idol immersion in U.T. of Puducherry is not carried out in fresh water bodies.
- Training program to the concerned regulatory authorities for ensuring effective implementation of revised guidelines for idol immersion was conducted by PPCC on 25.08.2021.
- Revised CPCB guidelines were also communicated on 11th August 2022 to the Collector, Puducherry and Karaikal Rgions, to the Sr. Superintendent of Police (L&O), to the Superintendent of Police, Karaikal and to the Secretary, Sri Vinayaga Chaturthi Vizha Peravai, Puducherry and to the Local Administration Department, Puducherry to issue necessary instruction to the concerned to follow the guidelines.
- PPCC officials inspected Vinayaga idols manufacturing units on 19.08.2022 and found the
 idols were manufactured with waste paper, tapioca powder and water soluble colours.
 Revised CPCB guidelines were also issued to the manufacturer of idols by PPCC.
- Public Notice regarding environmental friendly idol immersion was published in leading newspapers on 13.08.2022.
- A meeting was conducted by the Collector on 07.09.2022 for the strict implementation of guidelines till the end of festive.

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
5.	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.	Anne	xure I	
2.	Current Municipal Solid Waste Generation.	382.5	5 TPD	
3.	Number, installed capacity and utilization of existing MSW processing facilities in TPD	Commonstino	33.5 TPD	
	(bifurcated by type of processing eg., -Waste to Energy (Tonnage and Power Output), Compost	Vermi Composting	1 TPD	
	Plants (Windrow, Vermi, decentralized pit	1210 GOC	2 TPD	
	composting), bio- methanation, MRF etc.	Material recovered/Recycled	34 TPD	
4.	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap> 20%).	Tandara finalized by DLIDA for Integrated		
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 an stored in earmarked area. C&D waste Generation – 29.35 TPD. A DPR is completed for setting up of C & I waste processing plant at Puducherry o 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).	PACE POOL PACE PACE PACE PACE PACE PACE PACE PACE		
8.	No. and area (in acres) of uncontrolled	3 Nos. of controlled La	andfills	
	Garbage dumpsites and Sanitary Landfills.	Puducherry :23.0 Karaikal :8.32 Yanam :0.618 Total 31.938	Acres	
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.	identified and in-	that reaches the Arasalar rivers were situ remediation of ngs and Bar screen are 72 drains.	

Status of ULB wise Management of Solid Waste

ULB	Total MSW generation inTPD	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

Note:

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, 3.41 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. Processing of 60% of legacy waste has been completed as on date. The reclamation of land through bio mining and bio remediation will be expedited by adding additional trommel to clear the site at the earliest after discussing with the concessionaire.

Mahe Region has already been declared as Zero Waste Region as in-house composting is being practiced. 2 TPD of non-bio waste is being sent to MRF located in Pallur. Thus no legacy waste is accumulated.

In Yanam Region for processing of solid waste, DPR has been prepared by the Local Administration Department for bio-mining of 25306 MT of legacy waste. Tendering process would be completed by December, 2022 and bio-mining process would be commenced by January, 2023.

77,850 MT of legacy waste is accumulated in Paravaipet, Karaikal Municipality. Local Administration Department (LAD) has prepared the DPR to clear the legacy waste through Biomining. Approval of RFP and DPR is under Progress and about to issue the tender by December 2022.

In Karaikal Municipality, 100% of wet waste processing is being carried out through composting (15TPD) by Hand in Hand since 2016. Bio-methanation Plant of 1 TPD capacity was installed with

the financial assistance of Puducherry Pollution Control Committee (PPCC) in the year 2018. Methane gas generated is used for lighting purpose in the solid waste disposal yard. Dry waste of 1 TPD is used for RDF preparation and 31.2 TPD of dry waste is recovered and recycled by the informal sector. New concessionaire has been identified for the Integrated Solid Waste Management (ISWM) with Black Soldier Fly (BSF), Vermi composting technology for wet waste, depolymerization and incineration for dry waste and recycling of C&D waste are proposed. Letter of award is expected to issue during November 2022.

VI. Bio-medical Waste Management:

1	Total Bio-medical generation:	4638 kg/day
2	No. of Hospitals and Health Care Facilities:	387
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	PIEGORIA -
4	Avg. Quantity of Hazardous waste reaching the TSDFs and Treated.	TSDF: Land fillable Waste reached- M/s. Mother Earth Enviro Tech, Bangalore – 78.26 MT
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 o
		Puducherry has been prepared with the
		approval of Special Task Force (STF).
	I Marie a series and	As per the order of Hon'ble NGT, Bahou
		Commune Panchayat (BCP) has been
		declared as Single Use Plastic Free
		Commune.
		Public notice has been issued on 22.02.202.
		in Local dailies for elimination of Single
	land land	Use Plastics in English and vernacula
		language.
		A circular dated 24.02.2022 has been issue
		to all colleges to declare their campus a
		SUP free campus as per the direction of CPCB, Delhi.
	THE RESERVE OF THE PARTY OF THE	A consultation meeting on "Elimination o
	Land Transaction (1971)	single use plastics' with Local Authoritie
		like District Magistrate, Director, LAD
		Supdt. of Police and Commissioners of a
		Local Bodies was convened on 11.04.2022.
		Conducted a Technical session on laying o
		road using waste plastics on 18.04.2022.
		A pilot scale road was laid on 19.04.202
		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 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.

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

4th meeting of Special Task Force (STF) on elimination of Single use Plastic in the u.T of Puducherry under the Chairmanship of the Chief Secretary was held on 02.11.2022.

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;	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.

XVII	Demarcation of Flood plain and removal of Illegal encroachments:	Annexure – IV
XVIII		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 on illegal sand mining prone area.
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:	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 has been installed. Biodiversity Assessment in the Mangrove Forest of Karaikal is carried out for the period July 2021 to June, 2022.
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.	• • • • • • • • • • • • • • • • • • •

Details of Solid Waste Generation in Urban Local Bodies (Municipalities)

SI. No	Name of the Municipaliy	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
	Tota		382.5

	Chunnambar Ri	ver water Qui	Standard limit as per the Primary
S.No	Parameters	Oct-22	Water Quality Criteria for bathing water - Class of Water B
1	Date of sampling	18.10.2022	
2	Time	3.20 P.M	
3	Temp°C	32.0	
4	рН	8.97	6.5-8.5
5	DO (mg/l)	10.5	5 or more
6	BOD (mg/l)	7.0	3 or less
7	Total Coliform MPN/100 ml	350	
8	Faecal Coliform MPN/100ml	< 1.8	500 (Desirable) and 2500 (Max. Permissible)
9	Faecal Streptococci MPN/100ml	< 1.8	100 (Desirable) and 500 (Max. Permissible)
	Arasalar River	· Water Qualit	ty Data - 2022
S.No	Parameters	Oct-22	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B
1	Date of sampling	25.10.2022	
2	Time	6.30 AM	
3	Temp°C	29.0	
4	рН	7.60	6.5-8.5
5	DO (mg/l)	6.2	5 or more
6	BOD (mg/l)	BDL (DL: 1.0)	3 or less
7	Total Coliform MPN/100 ml	350	
8	Faecal Coliform MPN/100ml	<1.8	500 (Desirable) and 2500 (Max. Permissible)
	Faecal Streptococci	<1.8	100 (Desirable) and 500 (Max.

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



Report No.: TR/WTL/PHD/PWD/PDY/2022/W-1508 ULR-TC75802100000971F

Date: 27.10.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub-division, PHD, PWD, Puducherry.

Customer Reference : Letter dated 17.10.2022

Page 1 of 1

SAMPLE DETAILS

Sample Code : 2022/W-1508

Sampled by Sampled on : Customer

Sample Name Sample Description : Waste water : Waste water

Temperature at the time of

Sampling Location

: Kanaganeri STP Outlet

: 29.9°C

Sampling Procedure

Identification by Customer Sample Condition

: Sample 4 : Fit for analysis

Sample Received on

: 17.10.2022

Test Started on

: 17.10.2022 Test Completed on : 27.10.2022

TEST RESULTS

SI.NO	Test Parameter	Test Method	Units	Results
1	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B		7.09
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	21.7
.0	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	9.3
5	Total Phosphate as PO ₄	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	4.06

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

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

Authorized Signatory

Munile 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.

- 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.
- 5. The laboratory is not responsible for any legal dispute that may arise in future if the sample was not drawn by the laboratory personnel.



Report No.: TR/WTL/PHD/PWD/PDY/2022/W-1510 ULR-TC75802100000973F

Date: 27.10.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub-division, PHD, PWD, Puducherry.

Customer Reference

: Letter dated, 17, 10, 2022

Page 1 of 1

SAMPLE DETAILS

: 2022/W-1510 Sampled by : Customer Sample Code Sample Name : Waste water Sampled on

Sample Description : Waste water

Temperature at the time of

receipt

: 29.9°C

Sampling Location

: Dubrayapet STP Outlet

Identification by Customer : Sample 6 Sampling Procedure

: Fit for analysis

Sample Received on

: 17.10.2022

Sample Condition Test Started on : 17.10.2022

Test Completed on

: 27.10.2022

TEST RESULTS

SI.NO	Test Parameter	Test Method	Units	Results
1	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B		7.20
2	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	BDL (DL:10.0)
	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	31.6
	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	2.3
5	Total Phosphate as PO4	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	3.66

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, P.H.D., P.W.D., Puducherry.

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- 5. The laboratory is not responsible for any legal dispute that may arise in future if the sample was not drawn by the laboratory personnel.

Report No.: TR/WTL/PHD/PWD/PDY/2022/W-1508(Annexe)

Date:27.10.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub-division, PHD, PWD, Puducherry.

Customer Reference

: Letter dated.17.10,2022

Page 1 of 1

SAMPLE DETAILS

Sample Code

: 2022/W-1508

Sampled by

: Customer

Sample Name

Sampled on

: Waste water

Sample Description

: Waste water

Sampling Location

: Kanaganeri STP Outlet

Temperature at the time of

receipt

: 29.9°C

Identification by Customer

: Sample 4

Sampling Procedure Sample Received on

: 17.10.2022

Sample Condition Test Started on

: Fit for analysis : 17.10.2022

Test Completed on

: 27,10.2022

TEST RESULTS

SI.NO	Test Parameter	Test Method	- Units	Results
1	Nitrate as NO₃	APHA, 23rd Edn, 2017, 4500-NOsB	mg/L	<5
2	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	1.3
3	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/100 ml	<200 MPN/100ml

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

Authorized Signatory

Ministr

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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- 5. The laboratory is not responsible for any legal dispute that may arise in future if the sample was not drawn by the laboratory personnel.



Report No.: TR/WTL/PHD/PWD/PDY/2022/W-1506

ULR-TC75802100000969F

Date: 27.10.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub-division, PHD, PWD, Puducherry.

Customer Reference

: Letter dated, 17, 10, 2022

Page 1 of 1

SAMPLE DETAILS

Sample Code

: 2022/W-1506

Sampled by

: Customer

Sample Name

: Waste water

Sampled on

Sample Description

: Waste water

Temperature at the time of

Sampling Location

: Lawspet STP Outlet

receipt

: 29.9°C

Identification by Customer Sample Condition

: Sample 2 : Fit for analysis Sampling Procedure Sample Received on

: 17.10.2022

Test Started on

: 17.10.2022

Test Completed on

: 27.10.2022

Magne	gene	-	MOR.	gent.	20000	-	20.00	40	High	~
1125	200			R	ъж	200	£ 1	80	46	36
	Been!	w	第 3		hos	w	366	Sex	OM:	-Sui

SI.NO	Test Parameter	Test Method	Units	Results
1	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B		7.08
2	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	BDL (0L:10.0)
3	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	28,6
	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	10.3
5	Total Phosphate as PO ₄	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	6.41

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, P.H.D., P.W.D., Puducherry.

Terms and Conditions:

1. The test result relevant only to the item tested.

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.

5. The laboratory is not responsible for any legal dispute that may arise in future if the sample was not drawn by the laboratory personnel.

Report No.: TR/WTL/PHD/PWD/PDY/2022/W-1510(Annexe)

Date:27.10.2022

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub-division, PHD, PWD, Puducherry.

Customer Reference

: Letter dated.17.10.2022

Page 1 of 1

SAMPLE DETAILS Sampled by

Sampled on

Sample Code Sample Name

: 2022W-1510

: Customer

Sample Description

: Waste water

-

: Waste water

Sampling Location

: Dubrayapet STP Outlet

Temperature at the time of receipt

: 29.9°C

Identification by Customer

: Sample 6 : Fit for analysis

Sampling Procedure Sample Received on

: 17.10.2022

Sample Condition Test Started on

: 17.10.2022

Test Completed on

: 27.10.2022

TEST RESULTS

SI.NO	Test Parameter	Test Method	Units	Results
1	Nitrate as NOs	APHA, 23rd Edn, 2017, 4500-NO3B	mg/L	<5
2	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	1.2
3	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/100 ml	<200 MPN/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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5. The laboratory is not responsible for any legal dispute that may arise in future if the sample was not drawn by the laboratory personnel.

Report No.: TR/WTL/PHD/PWD/PDY/2022/W-1506(Annexe)

Date:27.10.2022

: Lawspet STP Outlet

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub-division, PHD, PWD, Puducherry.

Customer Reference

: Letter dated, 17.10.2022

Page 1 of 1

SAMPLE DETAILS

Sample Code : 2022/W-1506 Sampled by : Customer Sample Name : Waste water Sampled on : --

Sample Description

Temperature at the time of

receipt

Identification by Customer

Sample Condition

Test Started on

: Sample 2

: Fit for analysis : 17.10.2022

: Waste water

: 29.9°C Sampling Procedure

> Sample Received on Test Completed on

Sampling Location

: 17.10.2022 : 27.10.2022

TEST RESULTS

SI.NO	Test Parameter	Test Method	Units	Results
1	Nitrate as NO ₂	APHA, 23rd Edn, 2017, 4500-NOaB	mg/L	<5
2	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	2.1
3	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/100 ml	<200 MPN/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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- 5. The laboratory is not responsible for any legal dispute that may arise in future if the sample was not drawn by the laboratory personnel.

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.
- 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)

SI. No.	Key components of proposed action plans for restoration of identified polluted river stretches in States/UTs	Proposed Achievabe 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 50.00 Crore.	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.	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	6.0 MLD
	Coconut Plantation	
	Silk cotton trees	
	Natural recharging through impounding reservoir	9 MLD
Dubrayapet STP	To Pondy Marina Hotel	0.3 MLD
	Total	16.10 MLD

Committee for effective utilization of treated sewage has been constituted under the Chairmanship of the Secretary, Works. First Committee meeting was held on 23.09.2022. The Committee explored the possibility of utilization of 100% of treated sewage for Industrial, Agriculture, Forestry, Fish culture, Water sprinkling, Play grounds, Railways, Bus Stands and for other suitable purposes.