No. 6836/NGT/SLMC/SCI/2023/ I6 4 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 17 FEB 2023

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 January, 2023 is enclosed for kind perusal.

Yours sincerely,

N. Combo

(Dr.N.RAMESH) Member Secretary PPCC

Encl: as stated above

Copy to:

- 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 OANo.673of2018 (incompliance toNGTorderdated24.09.2020)

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 2 Nos. of UASB - 5 MLD
	Net Treatment capacity of STP's $56 - 5 = 51$ MLD	(under maintenance) Total -56 MLD
2.	Capacity Utilization of existing STPs:	
	15.52+15.41+12.13=43.06 MLD	43.06 MLD (84.43%)
	43.06/51=84.43%	
	MLD of sewage being treated through Alternate technology: (71-56=15MLD)	15 MLD (on site sanitation like septic tank and soak pit etc.,)
4.	Gap in Treatment Capacity in MLD:	15 MLD
	(71-56 =15MLD)	Tender for setting up of 15MLD was opened on 31.01.2023.
5.	No. of Operational STPs:	3 Nos.
6.	No. of Complying STPs with respect to pH, TSS, COD & BOD	3 Nos.

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	56 MLD (5 MLD UASB is under maintenance)	75.24%	3	3
2	Karaikal	-	-	-	-
3	Mahe	-	-	-	-
4	Yanam	-	-	-	-

Details of under construction STPs in the State

Sl. No.	Location	Capacity of the plant in KLD		Status of I & D or House sewer connections	Completion TimeLine
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	Rs. 28.15 crores has been sanctioned under AMRUT Scheme for setting up of 3MLD STP in Puducherry region.	
2.	Karaikal	11 MLD	DPR has been prepared for Installation of 2MLD STP at Arasalar River and sanctioned for Rs. 9.75 crores and Rs. 5.85 crores for O & M cost for state funds. However, a revised DPR with enhanced capacity of 11MLD including the quantity of sewage generated from Karaikal town and submitted for revised sanction under AMRUT scheme.	The work will be completed by June 2023.
3.	Mahe	Rs.25.50croreshasbeenallocatedunderSBM(U)2.0		
4.	Yanam	NS.25.50cfofeshasocchanocatedunucisbivi(0)2.0		

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 Regions, 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 festival.

IV. Details of Industrial Pollution:

1.	No. of industries in the State:	3595
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:	97
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, underconstruction& proposed)
Puducherry	3271	4746.2KLD	Existing-97	Nil

V. Solid Waste Management:

1.	Total number of Urban Local Bodies and their	Annexure	T
	Population.		
2.	Current Municipal Solid Waste Generation.	382.5 TPD)
3.	Number, Installed capacity and utilization of existing MSW processing facilities in TPD	Composting	33.5TPD
	(bifurcated by type of processing eg., -Waste to Energy (Tonnage and Power Output), Compost	VermiComposting	1TPD
	Plants (Windrow, Vermi, decentralized pit	Bio-gas	2TPD
	composting), bio-methanation, MRF etc.	Material	
	composting),010-methanation, WKI etc.	recovered/Recycled	34TPD
4.	Action plan to bridge gap between Installed	Proposed to have Energy F	Recovery Plant.
	Capacity and Current Utilization of processing	Tenders finalized by PUD	A for Integrated
		Solid Waste Manageme	ent System in
	facilities (if Gap> 20%).	Yanam and Letter of Awa	rd issued to M/s
		Square LLP, Hyde	rabad. Work
		commenced from 08.12.20	
5.	No. and capacity of C&D waste processing	There is no processing plant	of C&D
	Plants in TPD (existing, proposed and under	Waste.	
	construction).		
		At present C&D waste is be stored in earmarked area.	ing collected and
			25 TDD
		C&D waste Generation – 29	
		A DPR is completed for set waste processing plant at	0 1
		DBFOOT basis.	Puducherry on
6.	Total no. of wards, no. of wards having door to	Door to Door collection is	practiced in all
	door collection service, no. of wards practicing	wards.	
	segregation at source.	Cormon commencian is com	mind out in 14
		Source segregation is car wards.	ried out in 14
	Details of MSW treatment facilities proposed and	wards.	
7.	under construction (no. capacity and technology).		
-		2	
8.	No. and area (in acres) of uncontrolled	3Nos. of controlled Landfill	S
	Garbage dumpsites and Sanitary Landfills.	Puducherry :23.0 acre	
		Karaikal :8.32 acre	
		Yanam :0.618 acre	
		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	No. of drains: 172	
	having floating racks/screens installed to prevent		
	solid waste from falling into the rivers.	All the drains that reaches t	_
		and Arasalar rivers were i	
		situ remediation of providi and Bar screen are comple	
		drains.	aca iii aii tiici / 2
		or willy.	

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

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.
- Out of 6.5 lakhs tons of legacy waste accumulated in the U.T. of Puducherry, 3.70 lakhs tons have been cleared by bio-mining so far. An amount of Rs. 48.27 Crores has been identified and earmarked exclusively for disposal of the legacy waste. The work is progressing in full swing in Puducherry and will be completed by March 2023.
- Concessionaire has been engaged in Yanam and work will be completed by April 2023.
- 77,850 MT of legacy waste is accumulated in Paravaipet, Karaikal Municipality.
 Tender for the legacy waste has been floated for Karaikal and will also be completed by April 2023.
- 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.

The legacy waste accumulated in the UT of Puducherry will be cleared by April 2023.

With regard to solid waste processing in UT of Puducherry, 100% processing has been achieved both in Karaikal and Mahe Municipality. With respect to Yanam Municipality, the work order has been issued. The operator has started the collection and segregation from the source itself. The land has been identified for setting up the processing plant which will be completed

shortly and the processing will start by December 2022. As far as Puducherry region is concerned, RFP already been floated for setting up of processing plant at Kurumampet for 350 TPD and the letter for award will be issued by December2022. With these measures, the management of solid waste Management on day-to-day basis will be streamlined in the UT of Puducherry. Requisite funds of Rs. 50.00 Crores have been adequately earmarked under the State budget and SBM for setting up of the processing plants.

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.

VI. Bio-medical Waste Management:

1	Total Bio-medical generation:	4638kg/day
2	No. of Hospital sand 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:	31101 TPA	
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 TSDF sand Treated.	TSDF: Land fillable Waste reached- M/s. Mother Earth Enviro Tech, Bangalore –Nil	
5	Detail so for-going or proposed TSDF	The TSDF located in neighboring states is being shared.	

VIII. Plastic Waste Management:

1	Total Plastic Waste generation:	25185 TPA
2	Treatment/Measures adopted for reduction or management of plastic waste:	GovernmentofPuducherryhasimposedtotalb anonsingleuseplasticswitheffectfrom02/08/2019.
		As per the Government of India Notification Addendum has been notified by the Government of Puducherry for imposing additional SUP items like
		(i) Ear buds with plastic sticks, plastic sticks for balloons, candy sticks and ice cream sticks;(ii) Polystyrene [Thermocol] for decoration;
		(iii) Plates, cups, glasses, cutlery such as forks, spoons, knives, trays, stirrers, wrapping or packing films around sweet boxes, invitation cards and cigarette packets (iv) Plastics or PVC banners less than 100
		micron; (v) Non-woven plastic carry bags less than 60 Gram per Square Meter (GSM).
		Standard Operating Procedure (SOP) for making SUP free Government office has been prepared and circulated to all the Government Departments and Industries.
		Surprise inspections are being carried out.
		As per the direction of MoEF & CC, GOI, "Action Plan on Elimination of Single Use
		Plastic (SUP)" in the Union Territory of Puducherry has been prepared with the approval of Special Task Force (STF).
		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 coordination with Prof. Dr.Vasudevaiah, Thiagarajar College of Engineering, Madurai.

Road making using waste plastics at Korkumedu, Ariyankuppam Commune Panchayat.

Hon'ble Chief Minister Inaugurated the LED van on 05.06.2022 for creating awareness on PWM.

632 drives were made and 1594.4 kg of SUP items have been seized by Local bodies. Rs.101914/- was levied as fine. No. of Units closed 05

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
F	Facility (MRF) for 20 TPD Recyclable
P	Plastic waste from Pondicherry and Oulgaret
N	Municipality, MoU is under process.
4	4th meeting of Special Task Force (STF) on
e	elimination of Single use Plastic in the U.T
o	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 grating sandbar screen are completed inallthe172drains.

XI	Details of Nodal Officer appointed by Chief Secretary in the State/UT:	The Development Commissioner-cum- Senior Nodal Officer, Government of
XII	Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT:	Puducherry Ist Review meeting on compliance status of the Hon'ble NGT Directions in the matter of OA No.606/2018 was held on 27.10.2022 under the Chairmanship of Development Commissioner-cum-Senior Nodal Officer. 2 nd Review meeting is scheduled on 12.01.2023.
XIII	Latest water quality of polluted river, distributaries, drains with flow details and ground water quality in the catchment of polluted river;	Common STP Water Quality Data and River water quality data of Chunnambar and Arasalar are given in Annexure–II.
XIV	Ground water regulation:	Pondicherry Ground Water Authority had closed 6Nos. of tube wells in Puducherry region and 2Nos.of tube wells in Karaikal Region during the past 5yearsdue to illegal extraction of ground water.
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		

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 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 and dt.24.11.2022 to the District Collector, Karaikal 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. Signboard 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	Chunnambar River -Sankarabarani
	quality standards:	
XXIII		Action plan submitted to .CPCBdt.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.

	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)

Sl. No	Name of the Municipality	Total Population as per census2011	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	

	Chunnambar River Water Quality Data					
S.No	Parameters	Jan-23	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B			
1	Date of sampling	30.01.2023				
2	Time	4.00 PM				
3	Temp°C	29°C				
4	рН	8.42	6.5-8.5			
5	DO (mg/l)	9.2	5 or more			
6	BOD (mg/l)	2.5	3 or less			
7	Total Coliform MPN/100 ml	280				
8	Faecal Coliform MPN/100ml	84	500 (Desirable) and 2500 (Max. Permissible)			
9	Faecal Streptococci MPN/100ml	38	100 (Desirable) and 500 (Max. Permissible)			
	Arasalar R	iver Water Qua	lity Data			
S.No	Parameters	Jan-23	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B			
1	Date of sampling	23.01.2023				
2	Time	6.30 AM				
3	Temp°C	26°C				
4	рН	7.46	6.5-8.5			
5	DO (mg/l)	4.0	5 or more			
6	BOD (mg/l)	BDL (DL: 1.0)	3 or less			
7	Total Coliform MPN/100 ml	170				
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)			

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

Report No.: TR/WTL/PHD/PWD/PDY/2023/W-0032

Date: 27.01.2023

ULR-TC758021000000032F

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

: Test request dt:18.01.2023

Page 1 of 1

SAMPLE DETAILS

Sample Code : 2023/W-0032 : Customer Sampled by Sample Name : Water Sampled on : 18.01.2023

Sample Description : Waste Water

Temperature at the time of

receipt

: 27.9°C

Sampling Location

: Dubrayapet STP outlet

Identification by Customer

: Sample 2

Sampling Procedure : --

Sample Condition

: Fit for analysis

Sample Received on : 18.01.2023

Test Started on

: 18.01.2023

Test Completed on : 27.01.2023

TEST RESULTS

SI. NO	Test Parameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water
1	pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B	-	7.23	5.5 to 9
2	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	<10	Less than 10
3	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	14.3	Not more than 50
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	6.9	Less than 10
5	Total Phosphate as PO4	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	4.31	-

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

Authorized Signatory

Vimala Venkatachalam **BIOCHEMIST** WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

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-PHD PWD.
- 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.

port No.: TR/WTL/PHD/PWD/PDY/2022/W-0032(Annexe)

Date: 27.01.2023

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference : Test request dt:18.01.2023

Page 1 of 1

SAMPLE DETAILS

Sample Code	: 2023/W-0032	Sampled by	: Customer
Sample Name	: Water	Sampled on	: 18.01.2023
Sample Description	: Waste Water		
Temperature at the time of receipt	: 27.9°C	Sampling Location	: Dubrayapet STP outlet
Identification by Customer	: Sample 2	Sampling Procedure	:-
Sample Condition	: Fit for analysis	Sample Received on	: 18.01.2023
Test Started on	: 18.01.2023	Test Completed on	: 27.01.2023

TEST RESULTS

SI. NO	Test Parameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water
1	Nitrate as NO₃	APHA, 23rd Edn, 2017, 4500-NO ₃ B	mg/L	<5	
2	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	1.4	Less than 2
3	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/100 ml	<200 MPN/100ml	<230

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

Authorized Signatory

While

Vimala Venkatachalam **BIOCHEMIST** WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

<u>Copy Submitted to:</u> The Executive Engineer, P.H.D., P.W.D., Puducherry.

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port No.: TR/WTL/PHD/PWD/PDY/2022/W-0034(Annexe)

Date: 27.01.2023

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

: Test request dt:18.01.2023

Page 1 of 1

SAMPLE DETAILS

Sample Code Sample Name : Water

: 2023/W-0034 Sampled by Sampled on

: Customer

Sample Description

: 18.01.2023

Temperature at the time of

: Waste Water

receipt

: 27.7°C

Sampling Location

: Kanagan Eri STP Outlet

Identification by Customer

: Sample 4

Sampling Procedure :--

Sample Condition

Test Started on

: Fit for analysis

Sample Received on : 18.01.2023

: 18.01.2023

Test Completed on : 27.01.2023

TEST RESULTS

SI. NO	Test Parameter	Parameter Test Method		Results	NGT Standards for treated Sewage for
1	Nitrate as NO ₃	APHA, 23rd Edn, 2017, 4500-NO ₃ B	-		discharge into surface water
2	Phosphorus as P		mg/L	<5	
-	1 Hospitorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	1.6	Less than 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

Copy Submitted to:

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

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Report No.: TR/WTL/PHD/PWD/PDY/2023/W-0034 ULR-TC758021000000034F

Date: 27.01.2023



TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference : Test request dt:18.01.2023 Page 1 of 1

SAMPLE DETAILS

Sample Code

: 2023/W-0034

Sampled by

: Customer

Sample Name

Sampled on : Water

: 18.01.2023

Sample Description

: Waste Water

Temperature at the time of

receipt

: 27.7°C

Sampling Location

: Kanagan Eri STP Outlet

Identification by Customer

Sampling Procedure : --

: Sample 4

Sample Received on : 18.01.2023

Sample Condition Test Started on

: Fit for analysis : 18.01.2023

Test Completed on

: 27.01.2023

TEST RESULTS

Test Parameter Test Method		Units	Results	NGT Standards for treated Sewage for discharge into surface water
pH @ 25°C	APHA, 23rd Edition, 2017, 4500-H+B	-	7.40	5.5 to 9
	APHA, 23rd Edition, 2017, 2540 D	mg/L	<10	Less than 10
Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	19	Not more than 50
	IS 3025 Part44; (1994); RA2014	mg/L	2.5	Less than 10
Total Phosphate as PO4	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	4.87	-
	Test Parameter pH @ 25°C Total Suspended Solids @ 103 - 105°C Chemical Oxygen Demand Biochemical Oxygen Demand (3 days at 27°C) Total Phosphate as PO4	pH @ 25°C APHA, 23rd Edition, 2017, 4500-H+B Total Suspended Solids @ 103 - 105°C APHA, 23rd Edition, 2017, 2540 D APHA, 23rd Edition, 2017, 5220 B Biochemical Oxygen Demand (3 days at 27°C) IS 3025 Part44; (1994); RA2014	pH @ 25°C APHA, 23rd Edition, 2017, 4500-H+B Total Suspended Solids @ 103 - 105°C APHA, 23rd Edition, 2017, 2540 D mg/L Chemical Oxygen Demand APHA, 23rd Edition, 2017, 5220 B Biochemical Oxygen Demand (3 days at 27°C) IS 3025 Part44; (1994); RA2014 mg/L	pH @ 25°C

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

Authorized Signatory

Vimala Venkatachalam

BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

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.

port No.: TR/WTL/PHD/PWD/PDY/2022/W-0036(Annexe)

Date: 27.01.2023

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference : Test request dt:18.01.2023

Page 1 of 1

SAMPLE DETAILS

Sample Code Sample Name	: 2023/W-0036 : Water	Sampled by Sampled on	: Customer
Sample Description	: Waste Water	oumpied on	: 18.01.2023
Temperature at the time of receipt	: 28.0°C	Sampling Location	: Lawspet STP Outlet
Identification by Customer	: Sample 6	Sampling Procedure	
Sample Condition Test Started on	: Fit for analysis : 18.01.2023		

TEST PESIII TO

SI. NO	Toct Daramatan	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface
		APHA, 23rd Edn, 2017, 4500-NO ₃ B	mg/L	<5	water
2	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	1.6	Less than 2
3	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/100 ml	<200 MPN/100ml	-222

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

Authorized Signatory

Vimala Venkatachalam BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

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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/2023/W-0036

Date: 27.01.2023



ULR-TC758021000000036F

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

: Test request dt:18.01.2023

Page 1 of 1

NGT Standards for

treated Sewage for

SAMPLE DETAILS

Sample Code

: 2023/W-0036

Sampled by

: Customer

Sample Name

: Water

Sampled on

: 18.01.2023

Sample Description

: Waste Water

Temperature at the time of

Sampling Location

: Lawspet STP Outlet

receipt

SI.

NO

: 28.0°C

Results

Identification by Customer

: Sample 6

Sampling Procedure :--

Sample Received on : 18.01.2023

Sample Condition Test Started on

: Fit for analysis : 18.01.2023

Test Completed on

:27.01.2023

TEST RESULTS

Test Parameter	Test Method	Units	

discharge into surface water 1 pH @ 25°C APHA, 23rd Edition, 2017, 4500-H+B 7.43 5.5 to 9 Total Suspended Solids @ 103 -APHA, 23rd Edition, 2017, 2540 D mg/L <10 Less than 10 3 Chemical Oxygen Demand APHA, 23rd Edition, 2017, 5220 B 18 mg/L Biochemical Oxygen Demand Not more than 50 IS 3025 Part44; (1994); RA2014 (3 days at 27°C) mg/L 3.0 Less than 10 5 Total Phosphate as PO4 APHA, 23rd Edn, 2017, 4500-P B, C mg/L 4.99

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

Authorized Signatory

Vimala Venkatachalam

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ADOPTION OF GOODIRRIGATIONPRACTICE

- 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

PROTECTIONANDMANAGEMENTOFFLOODPLAINZONES(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 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		
	Coconut Plantation	6.0 MLD	
	Silk cotton trees		
	Natural recharging through impounding reservoir	9 MLD	
Dubrayapet STP	To Pondy Marina Hotel	0.3 MLD	
	Total	16.10 MLD	

An Ultrafiltration Plant of 0.50 MLD capacity for treating the STEW from Dubrayapet STP has already been installed at Dubrayapet and pumping mains for conveying the treated water at Botanical Garden and Bharathi Park has been laid at a total cost of `2.06 Crores under AMRUT scheme has been implemented as Pilot project and is to be commissioned immediately by which 0.50 MLD of Tertiary Treated Water will be reused in public parks. The system is ready and awaited for drawl of treated used water by Puducherry Municipality and Agriculture Department.