No. 6836/NGT/SLMC/SCI/2023/ A o g 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 18 APR 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 March, 2023 is enclosed for kind perusal.

Yours sincerely,

N. Censo

(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 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 Net Treatment capacity of STP's 56 - 5 = 51 MLD	3 Nos. of SBR - 51 MLD 2 Nos. of UASB - 5 MLD (under maintenance) Total - 56 MLD
2.	Capacity Utilization of existing STPs: 15.20+12.77+11.89=39.86 MLD 39.86/51= 78.16%	39.86 MLD (78.16%)
	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: (71-56 =15MLD)	15 MLD Tender for setting up of 15MLD was opened on 31.01.2023. Proposal sent to Government for obtaining expenditure sanction on 20.03.2023.
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)	78.16%	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	I II y DICUI	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	Tender document for 3 MLD STP at Puducherry for Sankarabarani river is under preparation. The tender will be called for by this week.	
2.	Karaikal	11 MLD	11 MLD STP for Karaikal tendered, opened and it is proposed to be submitted to WORKS BOARD for approval after reconstitution of WORKS BOARD.	
3.	Mahe	Action is being to is proposed to su		
4.	Yanam	The site for cons handed over to P Within 15 days w		

As the amount of Rs. 10.00 crores could not be utilized within the current financial year (2022-23), it is proposed to claim the above said amount in advance and deposit it into the Government account under the head "8443-Civil deposits", as assured by the Chief Secretary before the NGT.

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. <u>Details of Industrial Pollution:</u>

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:	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, underconstruction& 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	Integrated MSWM is being taken up for all types
	MSW processing facilities in TPD (bifurcated by type of	of waste by the ULBs.
	processing eg., -Waste to Energy (Tonnage and Power	 4 TPD Material Recovery Facility is
	Output), Compost Plants (Windrow, Vermi,	operational in Dubraypet, Pondicherry
	decentralized pit composting),bio-methanation, MRF etc	Municipality
		• 1 TPD Bio-methanation plant is operational
		in Oulgaret Municipality - 5 KWH
		• 1 TPD Bio-methanation plant is operational
		in Karaikal Municipality – 2 KWH
		Composting technologies like Windrows method,
		Black Soldier Fly (BSF) and other aerobic
		technologies have been adopted by the new
		concessionaire in Karaikal Municipality. The
		setting up of processing plant is under progress.
4.	Action plan to bridge gap between Installed	Selection of concessionaire for IMSWM
	Capacity and Current Utilization of processing	in Pondicherry and Oulgaret
	facilities (if Gap> 20%).	Municipalities is currently in process will
		address 100% processing.
		2. 100% Processing happening in Karaikal
		Municipality
		3. Handing over the land to the
		concessionaire is in process for Yanam
		Municipality.
		Mahe has in-situ wet waste management, so no processing facility required.
5.	No. and capacity of C&D waste processing	Tender has been floated for setting up Integrated
	Plants in TPD (existing, proposed and under	Municipal Solid Waste Management – the scope
	construction).	is inclusive of Collection, Transportation,
		Processing and Disposal of C&D waste for
		Pondicherry and Oulgaret Municipalities.
		The quantity of C&D waste generated in other
		The quantity of C&D waste generated in other
		ULBs is very minimal – not applicable to set up a

		ſ	•		ng mana	aged along with	
		Municip	pal Solid Wa	aste.			1
6.	Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source.	ULB	Number of Wards	Door	r ection	Source Segregation	
		PM	42	100%		100%	
		OM	37	100%	6	100%	
		KM	18	100%	6	100%	
		YM	14	100%	6	100%	
		MM	15	100%	6	100%	
7.	Details of MSW treatment facilities proposed and under construction (no. capacity and technology).	ULB	MSW treat facilitie propose	es	Capa city	Status as on (21.03.2023)	(20-03-
		PM	Integrated	i I	350	Tender has	1
		OM	SWM		TPD	been floated	1
		KM	Integrated	i d	40	New	
			SWM (Bid methanation BSF and Windows compostin	ion,	TPD	concessionaire has taken over; Construction is in Progress	
		YM	Integrated	1	20	Land handing	
			SWM (Bio		TPD	over in progress	
			BSF and Windows compostin				
		Pdy	Integrated	1	150	Refer	
		CP's	Municipal Solid Was		TPD	annexure	
		'	Processing	g			1
			Project at	ļ			1
		1	Puducherr	ry			1
			commune				
			panchayat		'		
		Kkl	Integrated		80	Refer	
		CP's	Municipal Solid Was		TPD	Annexure	

			Proje Pudu comr pancl	cherry nune hayat		
8.	No. and area (in acres) of uncontrolled Garbage dumpsites and Sanitary Landfills.	3Nos. o Puduch Karaika Yanam Total	nerry al	:23.0 acre :8.32 acre :0.618 ac	e e re	
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.	and Ar situ rer	drain asalar nediat	s that reach rivers we tion of pro	ere id ovidin	e Sankaraparani entified and in- g Grill gratings ed in all the172

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	
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, 5.33 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. The processing of waste may commence from June 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 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:	31101 TPA
2	No.of Industries generating Hazardous waste	139 industries obtained
		authorization.
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	GovernmentofPuducherryhasimposedtotalb		
	management of plastic waste:	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).		
		oo 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.		
		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.

179 drives were made and 547 kg of SUP items have been seized by Local bodies. Rs.26700/- 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
F	Facility (MRF) for 20 TPD Recyclable
	Plastic waste from Pondicherry and Oulgaret
	Municipality, MoU is under process.
	th meeting of Special Task Force (STF) on
	elimination of Single use Plastic in the U.T.
	minimation of Single use Trastic III the U.1

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	All the drains that reaches the
	drains contributing to river pollution and	Sankaraparani and Arasalar rivers were
	action as per NGT order on in-situ treatment:	identified and in-situ remediation of
		providing grill grating, sandbar screen are
		completed in all the 172drains.
XI	Details of Nodal Officer appointed by	The Development Commissioner-cum-
	Chief Secretary in the State/UT:	Senior Nodal Officer, Government of Puducherry
XII	Details of meetings carried under the	Ist Review meeting on compliance status
	Chairmanship of Chief Secretary in the	of the Hon'ble NGT Directions in the
	State/UT:	matter of OA No.606/2018 was held on
		27.10.2022 under the Chairmanship of
		Development Commissioner-cum-Senior

		Nodal Officer and 2 nd Review meeting was held 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 6 Nos. of tube wells in Puducherry region and 2Nos.of tube wells in Karaikal Region during the past 5years due to illegal extraction of ground water.
XV	Good irrigation practices being adopted by the State:	Annexure- 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
XVII	Demarcation of Flood plain and removal of	PWD - 262. Demarcation of flood plain and removal of
	Illegal encroachments:	illegal encroachments in Karaikal region is
		to be prepared under FMBAP. The expert
		team from Central Water Commission, New
		Delhi has inspected the sites on 02.02.2023
		for conducting field survey for sustainable
		water management in Karaikal Region.
		After getting necessary expert
		advice/recommendation from the expert

		team CWC, New Delhi necessary DPR will
		be prepared.
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		The mangrove area to an extent of 11-09-30 Hectares belongs to the Government and the rest of the area to an extent of 10-39-00 Hectares belongs to private owners. Hence, proposal of providing chain link fencing around three sides in Mangroves plantation at Northern side of beach road in Karaikal has been dropped. It is proposed to construct wooden walkway with watch tower in the mangrove area considering ecological balance. 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-IV
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.
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)

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
	Tota	382.5	

Report No.: TR/WTL/PHD/PWD/PDY/2023/W-0211 ULR-TC758021000000195F

Date: 15.03.2023



TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

Sample Code

Sample Name

: Test request dt:08.03.2023

Page 1 of 2

SAM	PLE	DET	AILS	

2023/W-0211 : Customer Sampled by : Waste Water Sampled on : 08.03.2023

Waste Water Sample Description (Outlet) : Lawspet STP Outlet

Sampling Location Temperature at the time of : 30.4°C

Identification by Customer : Sample 4 Sampling Procedure Sample Condition : Fit for analysis Sample Received on : 08.03.2023

Test Started on : 08.03.2023 Test Completed on : 15.03.2023

	TEST RESULTS					
SI.N O	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		7.06	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	18.7	Not more than 50	
	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	6.7	Less than 10	
5	Total Phosphate as PO4	APHA, 23rd Edn,2017,4500-P B,C	mg/L	3.02	***	

Authorized Signatory

V. Viniale

Vimala Venkatachalam BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

Copy Submitted to:
The Executive Engineer, P.H.D., P.W.D., Puducherry.

Terms and Conditions:

Terms and Conditions:

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

2. The tested report shall not be reproduced in full or part without written approval of WTL-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.

Report No.: TR/WTL/PHD/PWD/PDY/2022/W-0211(Annexe)

Date: 15.03.2023

TEST REPORT

Customer Name & Address

: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

Phosphorus as

Faecal Coliforms

: Test request dt:08.03.2023

Page 2 of 2

<200 MPN/100ml

SAMPLE DETAILS

SI.N		TEST RESULTS		Results		
Test Started on : 08.03.2023		Test Completed on	: 15.03.2023			
Sample Condition : Fit for analy		Sample Received on	: 08.03.2023			
Identification by Customer	: Sample 4	Sampling Procedure	:			
Temperature at the time of receipt	: 30.4°C			: Lawspet STP Outlet		
Sample Description	. Waste Water (Outlet)					
Sample Name	: Waste Water	Sampled on	: 08.03.2023			
Sample Code	: 2023/W-0211	Sampled by	: Customer			

est Parameter	Test Method	Units	Results	
s P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	1.0	
				1

Quality - Vol3

WHO Guideliness for drinking water

Authorized Signatory

MPN/

100ml

Vimala Venkatachalam

BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

Copy Submitted to:

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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/2023/W-0209 ULR-TC758021000000193F



TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

: Test request dt:08.03.2023

Page 1 of 2

SAMPLE DETAILS

Sample Code : 2023/W-0209 Sampled by : Customer Sample Name : Waste Water : 08.03.2023 Sampled on Waste Water Sample Description (Outlet) Sampling Location : Kanaganeri STP Outlet Temperature at the time of : 30.3°C receipt Identification by Customer : Sample 2 Sampling Procedure Sample Condition : Fit for analysis Sample Received on : 08.03.2023 Test Started on : 08.03.2023 Test Completed on : 15.03.2023

	TEST RESULTS				
SI.N O	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		7.05	5.5 to 9
2	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	<10	Less than 10
	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	20.7	Not more than 50
	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	7.7	Less than 10
5	Total Phosphate as PO4	APHA, 23rd Edn,2017,4500-P B,C	mg/L	2.96	40.40

Authorized Signatory

1. Wwinds

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.

Report No.: TR/WTL/PHD/PWD/PDY/2022/W-0209(Annexe)

Date: 15.03.2023

TEST REPORT

Customer Name & Address

: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

: Test request dt:08.03.2023

Page 2 of 2

SAMPLE DETAILS

: Customer Sample Code : 2023/W-0209 Sampled by : 08.03.2023 Sample Name · Waste Water Sampled on Waste Water Sample Description (Outlet) : Kanaganeri STP Outlet Sampling Location Temperature at the time of :30.3°C receipt Identification by Customer : Sample 2 Sampling Procedure :08.03.2023 Sample Condition : Fit for analysis Sample Received on Test Started on : 15.03.2023 : 08.03.2023 Test Completed on

TEST RESULTS

SI.N O	Test Parameter	Test Method	Units	Results
1	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	0.98
2	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/ 100ml	<200 MPN/100ml

Authorized Signatory

V. Vinde

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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Date: 15.03.2023



Report No.: TR/WTL/PHD/PWD/PDY/2023/W-0216 ULR-TC758021000000200F

TEST REPORT

Customer Name & Address: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

: Test request dt:08.03.2023

Page 1 of 2

SAMPLE DETAILS

Sample Code : Customer 2023/W-0216 Sampled by Sample Name : Waste Water : 08.03.2023 Sampled on Waste Water Sample Description (Outlet) : Dubrayapet STP Outlet Sampling Location Temperature at the time of : 30.4°C receipt Identification by Customer : Sample 9 Sampling Procedure Sample Condition : Fit for analysis Sample Received on : 08.03.2023 Test Started on :08.03.2023 : 15.03.2023 Test Completed on TEST RESULTS

TEST RESULTS					
SI.N O	Test Parameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water
-1	рН @ 25°C	APHA, 23rd Edilion,2017,4500-H+B		7.09	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	15.8	Not more than 50
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	5.8	Less than 10
5	Total Phosphate as PO4	APHA, 23rd Edn,2017,4500-P B,C	mg/L	3.16	

Authorized Signatory

V. Vinnel

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Report No.: TR/WTL/PHD/PWD/PDY/2022/W-0216(Annexe)

Date: 15.03.2023

TEST REPORT

Customer Name & Address

: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

: Test request dt:08.03.2023

Page 2 of 2

SAMPLE DETAILS

Sample Code Sample Name	: 2023/W-0216 : Waste Water Waste Water	Sampled by Sampled on	: Customer : 08.03.2023
Sample Description Temperature at the time of receipt	(Outlet) : 30.4°C	Sampling Location	: Dubrayapet STP Outlet
Identification by Customer Sample Condition Test Started on		Sampling Procedure Sample Received on Test Completed on	: : 08.03.2023 : 15.03.2023

TEST RESULTS

TEST RESOLTS					
SI.N O	Test Parameter	Test Method	Units	Results	
1	Phosphorus as P	APHA, 23rd Edn, 2017, 4500-P B, C	mg/L	1.0	
2	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/ 100ml	<200 MPN/100ml	

Authorized Signatory

V. Viniely

Vimala Venkatachalam BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

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	Chunnambar I	River Water Qua	ality Data - 2023	
S.N	o Parameters	Mar-23	Standard limit as per the Prima Water Quality Criteria for bathing water - Class of Water	
1	Date of sampling	28.03.2023		
2	Time	1.15 PM		
3	Temp°C	34.0		
4	рН	9.04	6.5-8.5	
5	DO (mg/l)	8.5	5 or more	
6	BOD (mg/l)	2.5	3 or less	
7	Total Coliform MPN/100 ml	350		
8	Faecal Coliform MPN/100ml	170	500 (Desirable) and 2500 (Max. Permissible)	
9	Faecal Streptococci MPN/100ml	<1.8	100 (Desirable) and 500 (Max. Permissible)	
	Arasalar F	River Water Qua		
S.No	Parameters	Mar-23	Standard limit as per the Primar Water Quality Criteria for bathing water - Class of Water I	
1	Date of sampling	24.03.2023		
2	Time	9.45 AM		
3	Temp°C	31.0		
4	рН	7.85	6.5-8.5	
5	DO (mg/l)	5.5	5 or more	
6]	BOD (mg/l)	1.6	3 or less	
7 7	Total Coliform MPN/100 ml	210		
	Faecal Coliform MPN/100ml	47	500 (Desirable) and 2500 (Max. Permissible)	
	Faecal Streptococci MPN/100ml RDI Polovy Data (<1.8	100 (Desirable) and 500 (Max. Permissible)	

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

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

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.