No. 6836/NGT/SLMC/SCI/2023/) 674
GOVERNMENT OF PUDUCIHERRY
DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONS

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 1 7 NOV 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: Letter received from MoJS, GOI vide 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, 2023 is enclosed for kind perusal.

Yours sincerely,

(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 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. <u>Details of Sewage Treatment Plants:</u> Puducherry District

1.	Existing no. of STPs and Treatment Capacity (in MLD)	3 Nos. of SBR - 51 MLD 2 Nos. of UASB - 5 MLD (under maintenance) Total - 56 MLD
	Net Treatment capacity of STP's	56 - 5 = 51 MLD
2.	Capacity Utilization of existing STPs: (15.58+16.31+15.50)=47.39 MLD 47.39/51=92.92%	47.39 MLD (92.92%)
3.	MLD of sewage being treated through Alternate technology: (71-56=15 MLD)	15 MLD (on site sanitation like septic tank and soak pit etc.)
4.	Gap in Treatment Capacity in MLD:	15 MLD
	(71-56 = 15MLD)	Work order has been issued on 22.06.2023 to M/s. ECO Protection Engineers Pvt. Ltd., Chennai for an amount of Rs. 43,08,68,289/ The contractor had submitted BEP (Basic Engineering Plan) for approval. Approval was accorded by NIT, Karaikal for BEP. Structural design work is under progress.
5.	No. of Operational STPs:	22.06.2023 to M/s. ECO Protection Engineers Pvt. Ltd., Chennai for an amount of Rs. 43,08,68,289/ The contractor had submitted BEP (Basic Engineering Plan) for approval. Approval was accorded by NIT, Karaikal for BEP. Structural design

Details of existing STPs 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)	92.92%	3	2
2	Karaikal	-	-	-	-
3	Mahe	-	-	-	-
4	Yanam	-	-	-	-

<u>Details of under construction STPs in the State</u>

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	Plant) at the same site funded by	Can be furnished only after finalizing the tender.

2.	Karaikal	11 MLD	Installation of 11 MLD STP in Karaikal has been commenced and will be completed as per the timeline of LOA.	
3.	Mahe	Animal Husbandry a	For installation of 0.5 MLD STP from and Fisheries Department to PWD is in a bly for CRZ clearance as the proposed Z-II.	
4.	Yanam	Financial bid was ope		

Idol immersion

- Letter dt. 14.08.2023 along with revised CPCB guidelines were sent to the Collector, Puducherry and Karaikal Region, to the Sr. Superintendent of Police (L&O), Senior Superintendent of Police, Karaikal, Secretary, Sri Vinayaga Chathurthi Vizha Peravai, Puducherry and to the Local Administration Department, Puducherry to issue necessary instruction to the concerned to follow the guidelines in to-to.
- PPCC officials inspected Vinayaga idols manufacturing units on 12.09.2023 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.
- Press note was released through Directorate of information and Publicity vide letter dt. 04.09.2023.
- A meeting was conducted by the Collector on 08.09.2023 for the strict implementation of guidelines till the end of festive.
- A meeting was conducted with the Secretary, Sri Vinayagar Chathurthi Peravai by the Member Secretary, PPCC on 13.09.2023 for strict compliance of the guidelines of the idol immersion.

- Sea water quality monitoring was carried out at pre immersion, during immersion and post immersion in Puducherry region for ascertaining water quality, Physico-chemical parameters such as pH, DO, colour, BOD, COD, Conductivity, Turbidity, TDS, Chloride, TSS, Hardness, Total Alkalinity and metals such as Chromium, Lead, Zinc, Copper, Cadmium, Mercury, Antimony, Barium, Cobalt, Manganese, Strontium were analysed. Apart from the water samples, sediment samples also were collected during pre-immersion, during-immersion and post immersion. The assessment report reveals that there is no significant variation in the concentration of the parameters when compared between the pre, during and post immersion stages in sea water and sediment samples.
- Action taken report along with test report send to CPCB, Delhi dated 16.10.2023.

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:	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	5 1 11	R's (7	,28,761, 0	Tensus 2	011)				
1.	Bodies and their Population.	J 01	ъ (1	,20,701, €	Clisus 2	011)				
2.		Total s	Total solid waste generation - 382.5 TPD							
		Sl. No.	,	ULB		Tota	l waste ge	nerated (Tl	PD)	
		1		PM		155				
	Current Municipal Solid Waste	2		OM		155				
	Generation.	3		KM		40				
	Generation.	4		MM		12.5				
		5		YM		20				
				Total		382.	5			
3.	Number, Installed capacity and utilization	Integrate	d MSV	VM is bein	ng taken	up for a	ll types of	waste by tl	he ULB	s.
	of existing MSW processing facilities in							MDE 4 1	As	s on 30.09.2023
•	TPD (bifurcated by type of processing	S.No	ULB	Processing	Bio		MRF through	MRF through informal	Total	Percentage
	eg., -Waste to Energy (Tonnage and		71.6		methana		formal sectors	sectors		of processing
	Power Output), Compost Plants		PM OM	-	1	4	0.5	3.05 2.47	7.05 3.97	4.54% 2.38%
	(Windrow, Vermi, decentralized pit			40 (Bio compostir		_		-	40	100%
	composting), bio-methanation, MRF etc			vermi, MRF) 8.5 ((Inhouse pip	ne .					
	1 0,,		MM	composting)	-	2	2	-	12.5	100%
		5	YM Total	48.5	- 1	- 6	2.5	6.52	1 64.52	5% 16.86%
			Total	40.3	1	U	2.3	0.52	04.52	10.00 70
4.		technolo Puduche	gies ha erry and	ive been : Karaikal.	adopted	by the	new conce	hod and essionaire i	in comr	nunes of
5		entire U together 1. 2. 3.	JT of) Letter Pondic 100% Conces Identif husban under j Mahe manag	Puducher of Awar cherry and Processing ssionaire fication of ndries and progress in is prace ement and	ry (urband das be Oulgare appointed alternated Dept. on Yanam eticing das between eticing das between Yanam eticing das between eticin	een issuet Muniching in Ked for pive land of Fishe Municiin-houserent cond	bodies a ned on 29 ipalities. araikal Ma processing with Deptries to set pality, e pipe of	unicipality in Yanan tof Veterin top Proce	for IMS m Mun nary and ssing F	SWM in icipality. I Animal acility is waste
5							n Puduch the work.	erry and K	Karaikal	include
6.	Total no. of wards, no. of wards having	ULB	Num	ber of	Door	to Door	Grou	ınd Status	on Sou	ırce
	door to door collection service, no. of		Wa	ards (collectio	n (DTD	C) Segr	egation		
	wards practicing segregation at source.	PM		12		00%		1% (15 wai	rds bv R	Recity)
		OM		37		00%				
	'	KM		18		00%	50%	5.4 % (20 wards by OM)		-/
	•						0%			
		YM		4		00%		1.11		
		MM		15	1(00%	area	kly basis in and month ential area	ly basis	
		(100%	segrega	ation is re	ported in	all 5 UI		htham SBN		.)
		, ,,,,,							1	
7.	Details of MSW treatment facilities proposed and under construction (no.	ULB	facil	SW treatn lities prop		Capac propos		tus		
	capacity and technology).	PM OM	Integr	rated		350 TI	PD Wo	rk order 09.2023.	issue	d on
l	l l	U 1 1 1		L	l					

1	installed to prevent solid waste from	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.				
10.	within 1km buffer of both side of the rivers. No. of drains falling into rivers and no. of drains having floating racks/screens	Nil				
9.	No. and area (in acres) of legacy waste	Total			38 acres	
	Zanolino.	Karaika Yanam	I	:8.32	acre 3 acre	
	Garbage dumpsites and Sanitary Landfills.	Puduche	erry	:23.0	acre	
8.	No. and area (in acres) of uncontrolled	3Nos. of	controlled Landfills	I	1 uncl	
	MM – Mahe Municipality Pdy CP's – Puducherry Commune Panchayat Kkl CP's – Karaiakal Commune Panchayat	Pdy CP's	onwards for 1 year con will be issued by Nov	tract for the 2023. The	e cost of I dry waste aposting in Work 22.11 been Const unit in comm Work 22.11 been Proce Karai Karai	Rs.3.83 Cr. Work order has been sent to MRF is being practiced by a order was issued on a commenced. Truction of processing is ongoing; Processing is ongoing; Processing is order issued on a commenced. The commenced is commenced is commenced. The commenced is commenced is commenced is commenced is commenced for the commenced is commenced is commenced in the commence i
	KM – Karaiakal Municipality YM – Yanam Municipality	YM			Engir for comp erecti before Procestarte Work 10.11 been certai reason hande Conceproce Co. Op s	essing is expected to be d from 01.12.2023. Torder was issued on .2021 and work has commenced. Due to n administrative in the land is yet to be

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	HOCHITIAS X7
Ē	5	382.5	64.52 TPD	3	16.86 %	Work order issued on 29.09.2023 for ISWM for PM and OM only. Other local bodies have already commenced.

Status of Legacy Waste Management:

Out of 6.5 lakhs tons of legacy waste accumulated in the U.T. of Puducherry (Puducherry, Oulgaret, Karaikal and Yanam municipalities):

Pondicherry & Oulgaret Municipality:

5.533 lakhs tons of legacy waste at Kurumbapet (for Pondicherry and Oulgaret Municipalities) was
taken up for bio-mining and bio-remediation by M/S Zigma Global Environ Solution Pvt Ltd. The
work has been completed by 30.04.2023.

Karaikal Municipality:

- 77,850 MT of legacy waste is accumulated in Paravaipet, Karaikal Municipality.
 - M/s. Srinivas Waste Management Services (P) Ltd. has started Bio-remediation and Bio-Mining works at Resource Recovery Park (RRP), Paravaipet, Karaikal on 02.06.2023 and processed 39920 M.T as on 09.11.2023. The work of the firm is being monitored on daily basis by the District Collector, Karaikal. To expedite the processing to complete in timeline given to the Hon'ble NGT, 3 set of Processing unit has been installed and details given below. Additional lands for installations of two more lines was given to the firm on the eastern side outside compound wall of RRP, Paravaipet, which belongs to Parvatheeswarar Temple.
 - o First Unit 400 MT appox (considering 3 shift Operation)
 - Second Unit 150 MT approx. (considering 3 shift Operation)
 - Third unit 400 MT (Installing Completed, Wiring Work and EB work is pending). The unit will become operational in two working days.

Yanam Municipality:

Work order issued on 31.08.2023 to clear 25306 MT of legacy waste accumulated in Yanam.
 Dumping yard handed over to the concessionaire on 3.11.2023. Setting up of transformer in under progress to commence the bio-mining.

Mahe Municipality:

No legacy waste in Mahe Municipality is reported.

VI. Bio-medical Waste Management:

1	Total Bio-medical generation:	4706.4kg/day
2	No. of Hospitals and Health Care Facilities:	390
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 and Treated.	TSDF: Land fillable Waste reached - 350.88 MT to M/s. Kalyana Karnataka Waste Management Project Private Limited,
5	Detail so for-going or proposed TSDF	Karnataka

VIII. Plastic Waste Management:

1	Total Plastic Waste generation:	31087 TPA
2	Treatment/Measures adopted for reduction or	Government of Puducherry has imposed
	management of plastic waste:	total ban on single use plastics with effect
		from 02/08/2019.
		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 co-ordination 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.

55 drives were conducted and 2162 kg of SUP items have been seized by Local bodies. Rs.95800/- 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.
		5 th 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 10.11.2023.
	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	Development Commissioner cum Senior
	Chairmanship of Chief Secretary in the	Nodal Officer reviewed the status of the

	State/UT:	Compliance of the order of the Hon'ble NGT in the matter of O.A.No.606 of 2018 dated 27.09.2023.
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 Chunnambar and Arasalar River water quality data are given in Annexure–I.
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- II
XVI	Rain Water Harvesting:	The planning authorities while issuing occupancy certificate ascertain that the conditions stipulated in the building permits regarding rain water harvesting measures have been complied with.
		The Puducherry Ground Water Authority does not issues fresh permits/renews permits to any industries/ institutions unless Rain Water Harvesting System is installed in their respective buildings.
		882 Rain Water Harvesting structure are constructed in the U.T of Puducherry by Department of Agriculture. No. of Rain Water Harvesting structure by PWD - 262.
XVII	Demarcation of Flood plain and removal of	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
		After getting necessary expert advice/recommendation from the expert
		team CWC, New Delhi necessary DPR will

		be prepared.
XVIII	Maintaining minimum –flow of river:	Illegal sand miming affect e-flow in the rivers. Hence, orders u/s 144 of CrPc were issued on 1 st April, 2019 prohibiting lorries, vans, two wheelers, bullock carts and any similar sand carrying vehicles. Check dams were constructed to regulate the flow.
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:	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 by PWD, Karaikal to construct wooden walkway with watch tower in the mangrove area considering ecological balance. Biodiversity Assessment in the Mangrove Forest of Karaikal was carried out for the period July 2021 to June, 2022.
XXI	Reuse of Treated Water: Model River being adopted by the State& Action Proposed for achieving the bathing quality standards:	Annexure-III 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:	Illegal sand miming affect e-flow in the rivers. Hence, orders u/s 144 of CrPc were issued on 1 st April, 2019 prohibiting lorries, vans, two wheelers, bullock carts and any similar sand carrying vehicles. Check dams were constructed to regulate the flow.
XXV	Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring.	-

	Chunnambar River Water Quality Data - 2023						
S.No	Parameters	Oct-23	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B (Water Used for Organised Outdoor Bathing) as per Environment (Protection) Rules, 1986				
1	Date of sampling	24.10.2023					
2	Time	12.20 PM					
3	Temp°C	32.0					
4	рН	8.75	6.5-8.5				
5	DO (mg/l)	8.4	5 or more				
6	BOD (mg/l)	7.5	3 or less				
7	Total Coliform MPN/100 ml	1600					
8	Faecal Coliform MPN/100ml	1600	500 (Desirable) and 2500 (Max. Permissible)				
9	Faecal Streptococci MPN/100ml	240	100 (Desirable) and 500 (Max. Permissible)				
	Ara	salar River Wat	er Quality Data - 2023				
S.No	Parameters	Oct-23	Standard limit as per the Primary Water Quality Criteria for bathing water - Class of Water B (Water Used for Organised Outdoor Bathing) as per Environment (Protection) Rules, 1986				
1	Date of sampling	24.10.2023					
2	Time	6.30 AM					
3	Temp°C	28.0					
4	рН	7.91	6.5-8.5				
5	DO (mg/l)	7.8	5 or more				
6	BOD (mg/l)	BDL (DL:1.0)	3 or less				
7	Total Coliform MPN/100 ml	1600					
8	Faecal Coliform MPN/100ml	1600	500 (Desirable) and 2500 (Max. Permissible)				
9	Faecal Streptococci MPN/100ml	220	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-1399

ULR-TC758022000001065F

Date: 10.10.2023

TEST REPORT

Customer Name & Address: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Page 1 of 1

Customer Reference

: Letter dated:03.10.2023

SAMPLE DETAILS

Sample Code	: 2023/W-1399	/W-1399 Information provided by the Customer		
Product Category	Pollution & Environment	Sampled by	: Customer	
Sample Name	: Waste Water	Sampling Procedure	:	
Temperature at the time of Receipt	: 30.3°C	Sample Description	; Waste water Outlet	
Sample Condition	: Fit for analysis		0.770.0 # 4	
Sample Received on	: 03.10.2023	Sampling Location	: Dubrayapet STP Outlet	
Test Started on	: 03.10.2023	Date of Sampling	: 03.10.2023	
Test Completed on	: 10.10.2023	Identification by Customer	: Sample 3	

	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, 24th Edition,2017,4500-H+B		7.98	5.5 to 9	
2	Total Suspended Solids @ 103 - 105°C	APHA, 24th Edition, 2017, 2540 D	mg/L	<10	Less than 10	
		APHA, 24th Edition, 2017, 5220 B	mg/L	14.9	Not more than 50	
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	3.0	Less than 10	
5	Total Phosphate as PO4	APHA, 24th Edn,2017,4500-P B,C	mg/L	2.70	***	

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

Authorized Signatory

Vimala Venkatachalam

BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

Copy submitted to:

The Executive Engineer, PHD., PWD., Puducherry.

- Terms and Conditions.

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

 2. The tested report shall not be reproduced in full or part without written approval of WTL-PHDPWD.
- 3. The laboratory is not responsible for the authenticity of photocopied test report.
- 4. The test item will not be retained for more than 15 days from the date of issue of test report except in case as required by applicable regulations. 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-1399(Annexe)

Date: 10.10.2023

TEST REPORT

Customer Name & Address: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Page 1 of 1

Customer Reference

: Letter dated:29.09.2023

SAMPLE DETAILS

Sample Code : 2023/W-1399		Information provided by the Customer		
Product Category	Pollution & Environment	Sampled by	: Customer	
Sample Name	: Waste Water	Sampling Procedure	:	
Temperature at the time of Receipt	: 30.3°C	Sample Description	; Waste water Outlet	
Sample Condition Sample Received on	: Fit for analysis : 03.10.2023	Sampling Location	: Dubrayapet STP Outlet	
Test Started on	: 03.10.2023	Date of Sampling	: 03.10.2023	
Test Completed on	: 10.10.2023	Identification by Customer	: Sample 3	

TEST RESULTS

SI.No.	Test Parameter	Test Method	Units	Results
1	Phosphorus as P	APHA,24th Edition,2017,4500-P B, C	mg/L	0.90
2	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, PHD., PWD., Puducherry.

Terms and Conditions

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Report No.: TR/WTL/PHD/PWD/PDY/2023/W-1679

ULR-TC758022000001339F

Date: 27.10.2023

TEST REPORT

Customer Name & Address: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Page 1 of 1

Customer Reference

: Letter dated:19.10.2023

SAMPLE DETAILS

Sample Code ; 2023/W-1679		Information provided by the C	ustomer			
Product Category :		Pollution & Environment	Sampled by	: Custo	mer	
Sampl	le Name	: Waste Water	Sampling Procedure	:		-
Temperature at the time of Receipt		:	Sample Description	: Waste	water Ou	tlet
Samp	le Condition	: Fit for analysis	Samulias I applies	: Lawspet STP Outlet		
Samp	le Received on	: 19.10.2023	Sampling Location	. Lawsp	el STP O	ulet
Test S	Started on	: 19.10.2023	Date of Sampling	: 19.10.	: 19.10.2023	
Test C	Completed on	: 27.10.2023	Identification by Customer	: Sampl	: Sample 2	
	TEST RESULTS					
SI.No.	Test Pa	arameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water

Sl.No.	Test Parameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water
1	рН @ 25°C	APHA, 24th Edition,2017,4500-H+B		7.48	5.5 to 9
2	Total Suspended Solids @ 103 - 105°C	APHA, 24th Edition, 2017, 2540 D	mg/L	<10	Less than 10
3	Chemical Oxygen Demand	APHA, 24th Edition, 2017, 5220 B	mg/L	18.9	Not more than 50
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	8.9	Less than 10
5	Total Phosphate as PO4	APHA, 24th Edn,2017,4500-P B,C	mg/L	2.98	

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

Authorized Signatory

Vimala Venkatachalam

BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

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Report No.: TR/WTL/PHD/PWD/PDY/2023/W-1679(Annexe)

Date: 27.10.2023

TEST REPORT

Customer Name & Address: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Page 1 of 1

Customer Reference

: Letter dated:19.10.2023

SAMPLE DETAILS

Sample Code	: 2023/W-1679	Information provided by the Customer		
Product Category	Pollution & Environment	Sampled by	: Customer	
Sample Name	: Waste Water	Sampling Procedure	:	
Temperature at the time of Receipt	:	Sample Description	: Waste water Outlet	
Sample Condition	: Fit for analysis	Sampling Location	: Lawspet STP Outlet	
Sample Received on	: 19.10.2023	Sampling Location	. Zanopot o tr	
Test Started on	: 19.10.2023	Date of Sampling	: 19.10.2023	
Test Completed on	: 27.10.2023	Identification by Customer	: Sample 2	
TEST RESULTS				

TEST RESULTS					
SI.No.	Test Parameter	Test Method	Units	Results	
1	Phosphorus as P	APHA,24th Edition,2017,4500-P B, C	mg/L	0.99	
2	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/100 ml	<200 MPN/100ml	

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

Authorized Signatory V.Vmiele

Vimala Venkatachalam **BIOCHEMIST**

WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

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Report No.: TR/WTL/PHD/PWD/PDY/2023/W-1593

ULR-TC75802000001172F

Date: 13.10.2023

TEST REPORT

Customer Name & Address: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Page 1 of 1

Not more than 50

Less than 10

Customer Reference

: Letter dated:10.10.2023

SAMPLE DETAILS

Sample Code	: 2023/W-1593	Information provided by the Customer				
Product Category	Pollution & Environment	Sampled by	: Custor	ner		
Sample Name	: Waste Water	Sampling Procedure	:			
Temperature at the time of Receipt	: 30.2°C	Sample Description	: Treate	d Water		
Sample Condition Sample Received on	: Fit for analysis : 10.10.2023	Sampling Location	; Kanag	aneri STP	outlet	
Test Started on	: 10.10.2023	Date of Sampling	: 10.10.	2023		
Test Completed on : 13.10.2023		Identification by Customer	: Sample 8			
TEST RESULTS						
SI.No. Test Pa	rameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water	
1 pH @ 25°C		APHA, 24th Edition,2017,4500-H+B		7.26	5.5 to 9	
2 Electrical Conductivity	@ 25°C	APHA, 24rd Edition, 2017, 2510 B	μs/cm	2207		
3 Total Suspended Solid	Total Suspended Solids @ 103 - 105°C		mg/L	12	Less than 10	

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

APHA, 24th Edn,2017,4500-P B,C

APHA, 24th Edition, 2017, 5220 B

IS 3025 Part44; (1994); RA2014

Authorized Signatory

59

30

9.46

mg/L

mg/L

mg/L

Vimala Venkatachalam **BIOCHEMIST**

WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

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4

5

6

The Executive Engineer, PHD., PWD., Puducherry.

Terms and Conditions

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

Chemical Oxygen Demand

Total Phosphate as PO4

(3 days at 27°C)

Biochemical Oxygen Demand

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Report No.: TR/WTL/PHD/PWD/PDY/2023/W-1593(Annexe)

Date: 13.10.2023

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

: Letter dated:10.10.2023

Page 1 of 1

SAMPLE DETAILS

Sample Code	: 2023/W-1593	Information provided by the Customer		
Product Category	Pollution & Environment	Sampled by	: Customer	
Sample Name	: Waste Water	Sampling Procedure	;	
Temperature at the time of Receipt	: 30.2°C	Sample Description	: Treated Water	
Sample Condition Sample Received on	: Fit for analysis : 10.10.2023	Sampling Location	: Kanaganeri STP outlet	
Test Started on	: 10.10.2023	Date of Sampling	: 10.10.2023	
Test Completed on	: 13.10,2023	Identification by Customer	: Sample 8	

TEST RESULTS

SLNo.	Test Parameter	Test Method	Units	Results
1	Pnospnorus as P	APHA,23rd Edition,2017,4500-P B, C	mg/L	3.1
2	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/100 ml	>24x10 ⁷ MPN/100ml

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

Authorized Signatory

V. Vandy Vimala Venkatachalam BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

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ADOPTION OF GOOD IRRIGATION PRACTICE

- 1. It is proposed to cover more area under precision farming.
- 2 System of Rice Intensification (SRI) is popularized among the farming community as a water saving measure.
- 3. Sustainable Sugarcane Initiative (SSI) for reducing water consumption in sugarcane crops is also being popularized.
- 4. Attractive subsidy assistance is being extended to farmers for installation of Drip/Sprinkler irrigation devices.
- 5. Attractive subsidy assistance is being extended to farmers for laying underground pipelines for conveyance of irrigation water.

Reuse of Treated Water

Station	Purpose	Quantity
Lawspet STP	Lawspet STP Industrial usage	
	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.