No. 6836/NGT/SLMC/SCI/2023/ 56 \
GOVERNMENT OF PUDUCHERRY

DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT PUDUCHERRY POLLUTION CONTROL COMMITTEE

3rd Floor, I-Housing Board Complex, Anna Nagar, Puducherry - 5. Telephone: (0413) 2201256; Telefax: (0413) 2203494

one: (0413) 2201230

Puducherry, the

To

2 2 DEC 2023

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 November, 2023 is enclosed for kind perusal.

Yours sincerely,

(YASAM LAKSHMI NARAYANA REDDY

DIRECTOR (DSTE)

Enc1: 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:	46.62 MLD (91.41%)
	(14.61+16.29+15.72)=46.62 MLD	
	46.62/51=91.41%	
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/ Basic Engineering Plan was approved by NIT, Karaikal. Soil stabilisation test completed. Further work is in progress.
5.	No. of Operational STPs:	3 Nos.
6.	No. of Complying STPs with respect to pH, TSS, COD & BOD	2 Nos.

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)	91.41%	3	2
2	Karaikal	-	-	-	-
3	Mahe	-	-	-	-
4	Yanam	-	-	-	-

Details of under construction STPs in the State

Sl. No.	Location	Capacity of the plant in KLD	Physical Progress in%	Status of I & D or House sewer connections	Completion 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	STD and ESTD. The comprehensive	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	Tender has been floated on 15.11.2023 for construction of 0.5MLD		
4.	Yanam	Financial bid was financial bid is unde	opened on 06.10.2023. Evaluation of progress.	

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:	96
9.	Number and total capacity of CETPs (details of existing / under construction /proposed)	Nil
10.	Status of compliance and operation of the CETPs	Nil

Town	No.of industries	Industrial discharge	Status of ETPs	Status of CETPs(existing, under construction & proposed)
Puducherry	3271	4746.2KLD	Existing-97	Nil

V. Solid Waste Management:

1.	Total number of Urban Local Bodies and their Population.	5 UI	LB's (7,2	28,761, Ce	ensus 201	1)				
2.		Total solid waste generation - 382.5 TPD								
			Sl. No. ULB Total waste generated (TPD)							
		1		PM		155				
	Current Municipal Solid Waste	2		OM		155				
		3		KM		40				
	Generation.									
		4		MM		12.5				
		5		YM		20				
				Total		382.5	5			
3.	Number, Installed capacity and utilization	Integrat	ed MSW	M is being	g taken ur	for all	types of	waste by tl	ne ULE	ß.
	of existing MSW processing facilities in						71			s on 30.09.20
	TPD (bifurcated by type of processing		ULB	Processing	Bio	MRF	MRF through	MRF through informal	Total	Percentag
	eg., -Waste to Energy (Tonnage and		CLB	Troccosing	methanation	WIKE	formal sectors	sectors	Total	of processi
	Power Output), Compost Plants	2	PM	-	-	4	- 0.5	3.05	7.05	4.54%
	(Windrow, Vermi, decentralized pit		OM 40	(Bio composting,	1	-	0.5	2.47	3.97	2.38%
	composting),bio-methanation, MRF etc	3	KM	vermi, MRF)	-	-		-	40	100%
	composting),010-methanation, where etc	4	MM 8	3.5 ((Inhouse pipe composting)	-	2	2	-	12.5	100%
		5	YM	-	-	-	-	1	1	5%
			Total	48.5	1	6	2.5	6.52	64.52	16.86%
4.		technolo Puduche	ogies hav	/e been ad Karaikal.	dopted by	the n	ew conce	hod and essionaire i	in com	munes
	Utilization of processing facilities (if Gap> 20%).	handle a entire	all the ty UT of I r) Letter of Pondich 100% F Concess Identific husband under p Mahe manage	pes of was Puducherry of Award herry and Orocessing sionaire a cation of a dries and rogress in is practi	has bee Dulgaret I happenin appointed alternative Yanam Micing in the currer	n issumunicing in Karafor per land refisher funicing-house nt concentrational desired in the second	the ULBs bodies a ed on 29 palities. araikal Murocessing with Dept ies to set bality, pipe dessionaire	and commonder of the compositing of the compositing experience of the compositing of the composition of the commond	Is of word with the part of th	aste fro anchaya ISWM nicipalit d Anim Facility waste
5								•		
٠	proposed and under construction).	C&D w	aste man	agement i	n their sco	ope of	the work.	nerry and K		l includ
٠	proposed and under construction). Total no. of wards, no. of wards having		aste man	agement in	n their sco	Door	the work.	ınd Status		l includ
٠	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of	C&D w	Numb	er of co	Door to	Door	Grou Segr	and Status	on So	l includ
٠	proposed and under construction). Total no. of wards, no. of wards having	C&D w ULB PM	Numb War	er of co	Door to	Door DTD(Grou Segr 43 %	und Status egation (15 wards	on So	l includ
٠	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of	C&D w ULB PM OM	Numb Wai 42	er of co	Door to 1000	Door DTD0	Grou Segr 43 % 5.4 %	and Status	on So	l includ
٠	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of	ULB PM OM KM	Numb War	er of co	Door to	Door DTD0	Grou Segr 43 %	und Status egation (15 wards	on So	l includ
٠	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of	C&D w ULB PM OM	Numb Wai 42	er of co	Door to 1000	Door (DTDC)%	Grou Segr 43 % 5.4 %	und Status egation (15 wards	on So	l includ
٠	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of	C&D w ULB PM OM KM YM	Numb Wai 42 33	er of co	Door to 100° 100° 100° 100° 100° 100° 100° 100	Door (DTD)	Grou Segr 43 % 50% 0%	and Status egation (15 wards 6 (20 wards	on So by Red s by Ol	urce
٠	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of	ULB PM OM KM	Numb Wai 42	er of co	Door to 1000 1000 1000 1000 1000 1000 1000 1	Door (DTD)	Grou Segr 43 % 5.4 % 50% Weel area	und Status egation (15 wards	by Rec	urce city) M)
٠	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of	C&D w ULB PM OM KM YM MM	Numb Wai 42 33 18	er of co	Door to 100° 100° 100° 100° 100° 100° 100° 100	Door DTDC	Grou Segr 43 % 5.4 % 50% Weel area resid	egation (15 wards (20 wards kly basis in and month)	by Recess by Office of the committee of	urce city) M) ercial s in
5.	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source. Details of MSW treatment facilities	C&D w ULB PM OM KM YM MM	Numb Wai 42 33 18 12 15 segrega	er of cost cost cost cost cost cost cost cost	Door to 1000 1000 1000 1000 1000 1000 1000 1	Door DTDC	Grou Segr 43 % 5.4 % 50% Weel area resid B's Swath	egation (15 wards (20 wards kly basis in and month) ential area htham SBM	by Recess by Office of the committee of	urce city) M) ercial s in
5.	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source. Details of MSW treatment facilities proposed and under construction (no.	ULB PM OM KM YM MM ULB ULB	Numb Wai 42 33 18 12 15 segregai MSS facili	er of cost cost cost cost cost cost cost cost	Door to Dollection (1000 1000 1000 1000 orted in all ent osed p	Door DTD(%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	Grou Segr 43 % 5.4 % 50% Weel area resid B's Swath	egation (15 wards (20 wards kly basis in and month) ential area htham SBM	by Rec s by Ol comm ly basis	urce city) M) ercial s in
5.	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source. Details of MSW treatment facilities	ULB PM OM KM YM MM (100% ULB PM	Numb Wai 42 33 18 12 15 segregat MS' facili Integra	er of cost cost cost cost cost cost cost cost	Door to Dollection (1000 1000 1000 1000 orted in all ent osed p	Door DTDC	Grou Segr 43 % 5.4 % 50% Weel area resid B's Swatt ty Stared D Wo	egation (15 wards 6 (20 wards and month) ential area htham SBM	by Received by On a committee by basis	urce city) M) ercial s in
	proposed and under construction). Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source. Details of MSW treatment facilities proposed and under construction (no.	ULB PM OM KM YM MM ULB ULB	Numb Wai 42 33 18 12 15 segregai MSS facili	er of cost cost cost cost cost cost cost cost	Door to Dollection (1000 1000 1000 1000 orted in all ent osed p	Door DTD(%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	Grou Segr 43 % 5.4 % 50% Weel area resid B's Swatt ty Stared PD Wo 29.6	egation (15 wards (20 wards kly basis in and month) ential area htham SBM	by Received by Observation Source issued issued in clear	urce city) M) ercial s in

					comm	nenced from
						.2024.
	KM – Karaiakal Municipality	KM	Integrated SWM (Bio- methanation, BSF and Windrows composting)	40 TPD	Work 22.11 has be	
	YM – Yanam Municipality	YM	Integrated SWM (Bio- methanation, BSF and Windrows composting)	20 TPD	10.11 admir handir delaye Electr G.O cleara handir local the pr	order was issued on 2021. Due to certain istrative reason the ng over of the land got ed from Dept. of icity and recently the has been issued for nice of land. On ng over the land to the body the setting up of rocessing plant will be nenced by Jan, 2024.
	MM – Mahe Municipality Pdy CP's – Puducherry Commune Panchayat	MM	The agency engaged N the work for door to onwards for 1 year con issued and commenced Pallor. In-house pipe chouseholds.	door collect stract for the l. The dry w	ion in N cost of F aste has	Mahe from 21.09.2023 Rs.3.83 Cr. Work order been sent to MRF near
		Pdy CP's	Integrated Municipal Solid Waste Processing Project at Puducherry commune panchayat	150 TPD	22.11 been Const	order was issued on .2022 and work has commenced. ruction of processing songoing.
	Kkl CP's – Karaiakal Commune Panchayat	Kkl CP's	Integrated Municipal Solid Waste Processing Project at Puducherry commune panchayat	80 TPD	been Proce Karaii Karaii Panch	.2022 and work has commenced. ssing commenced for kal municipality and kal commune
8.	No. and area (in acres) of uncontrolled	3Nos. of	controlled Landfills	I.	II.	
	Garbage dumpsites and Sanitary Landfills.	Puduche	erry	:23.0 a		
		Karaika Yanam Total		:8.32 a :0.618		
9.	No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers.		iil	l -		1
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.	No. of drains: 172 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.				

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	Hacilities X7
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 processing solid waste.

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.

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 is 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 – 72.41 MT to M/s. Kalyana Karnataka Waste Management Project Private Limited, Karnataka
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:	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 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.

of SUP items have been seized by Local bodies. Rs.29,500/- was levied as fine.

Implementation of Single Use Plastic (SUP) the notification per 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. Minutes of the
		meeting communicated to the concerned
		line Department.
IX	Details of Alternate Treatment Technology	Nil
	being adopted by the State/UT	1111
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
XII	Details of meetings carried under the	Puducherry 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	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:	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	Annexure-III Chunnambar River -Sankarabarani
XXIII	quality standards: Status of Preparation of Action Plan by the13 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	Nov-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	17.11.2023			
2	Time	12.25 P.M			
3	Temp°C	29.0			
4	рН	8.68	6.5-8.5		
5	DO (mg/l)	7.8	5 or more		
6	BOD (mg/l)	5.0	3 or less		
7	Total Coliform MPN/100 ml	500			
8	Faecal Coliform MPN/100ml	500	500 (Desirable) and 2500 (Max. Permissible)		
9	Faecal Streptococci MPN/100ml	140	100 (Desirable) and 500 (Max. Permissible)		
	Ara	salar River Wate	er Quality Data - 2023		
S.No	Parameters	Nov-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	13.11.2023			
2	Time	6.10 A.M			
3	Temp°C	27.5			
4	рН	7.35	6.5-8.5		
5	DO (mg/l)	7.0	5 or more		
6	BOD (mg/l)	BDL (DL:1.0)	3 or less		
7	Total Coliform MPN/100 ml	220			
8	Faecal Coliform MPN/100ml	79	500 (Desirable) and 2500 (Max. Permissible)		
9	Faecal Streptococci MPN/100ml	170	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-1715(Annexe)

Date: 15.11.2023

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference

Phosphorus as P

Faecal Coliforms

: Letter dated:08.11.2023

Page 1 of 1

SAMPLE DETAILS

Sample Code	: 2023/W-1715	Information provided by the	rided by the Customer	
Product Category	Pollution & Environment	Sampled by	: Customer	
Sample Name	: Waste Water	Sampling Procedure	<u>.</u>	
Temperature at the time of Receipt	: 30.2°C	Sample Description	: Waste Water (Outlet)	
Sample Condition	: Fit for analysis			
Sample Received on	: 08.11.2023	Sampling Location	: Dubrayapet Outlet	
Test Started on	: 08.11.2023	Date of Sampling	: 08.11.2023	
Test Completed on	: 15.11.2023	Identification by Customer	: Sample 8	

TEST RESULTS **Test Parameter Test Method** Units Results APHA,23rd Edition,2017,4500-P B, C mg/L 1.04

WHO Guideliness for drinking water MPN/100 ml <200 MPN/100ml Quality - Vol3

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

Authorized Signatory

Vimala Venkatachalam

BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

Copy submitted to:

SI.No.

1

2

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

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Date: 15.11.2023

Report No.: TR/WTL/PHD/PWD/PDY/2023/W-1715

ULR-TC758022000001365F

TEST REPORT

Customer Name & Address: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference : Letter dated:08.11.2023 Page 1 of 1

SAMPLE DETAILS

Sample Code	: 2023/W-1715	provided by the odstoller	
Product Category	Pollution & Environment	Sampled by	: Customer
Sample Name	: Waste Water	Sampling Procedure	:
Temperature at the time of Receipt	: 30.2°C	Sample Description	: Waste Water (Outlet)
Sample Condition	: Fit for analysis		, ,
Sample Received on	: 08.11.2023	Sampling Location	: Dubrayapet Outlet
Test Started on	: 08.11.2023	Date of Sampling	: 08.11.2023
Test Completed on	: 15.11.2023	Identification by Customer	: Sample 8

TEST DECLII TO

SI.No.	Test Parameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water
1,5	рН @ 25°C	APHA, 23rd Edition,2017,4500-H+B		7.46	5.5 to 9
2	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	<10	Less than 10
- 13:55°S	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	18.1	Not more than 50
	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994), RA2014	mg/L	9.0	Less than 10
5	Total Phosphate as PO4	APHA, 23rd Edn,2017,4500-P B,C	mg/L	3.12	34-4-

.....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-1713

ULR-TC758022000001363F

Date: 15.11.2023

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Page 1 of 1

Customer Reference

: Letter dated:08.11.2023

SAMPLE DETAILS

: 2023/W-1713	Information provided by the Customer		
Pollution & Environment	Sampled by	: Customer	
: Waste Water	Sampling Procedure	:	
: 30.1°C	Sample Description	: Waste Water (Outlet)	
: Fit for analysis	Sampling Location	: Kanaganeri Outlet	
: 08.11.2023	Gamping Location		
: 08.11.2023	Date of Sampling	: 08.11.2023	
: 15.11.2023	Identification by Customer	: Sample 6	
	Environment Waste Water 30.1°C Fit for analysis 08.11.2023	Environment Waste Water Sampled by Sampling Procedure Sample Description Sampling Location Date of Sampling	

	TEST RESULTS						
SI.No.	Test Parameter	Test Method	Units		NGT Standards for treated Sewage for discharge into surface water		
1	рН @ 25°C	APHA, 23rd Edition,2017,4500-H+B		7.24	5.5 to 9		
2	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	17	Less than 10		
3	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	45.8	Not more than 50		
	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	30.0	Less than 10		
5	Total Phosphate as PO4	APHA, 23rd Edn,2017,4500-P B,C	mg/L	12.4	-		

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

Authorized Signatory V.Vimile

Vimala Venkatachalam BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

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Report No.: TR/WTL/PHD/PWD/PDY/2023/W-1713(Annexe)

Date: 15.11.2023

TEST REPORT

Customer Name & Address: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Page 1 of 1

Customer Reference

: Letter dated:08.11.2023

SAMPLE DETAILS

Sample Code	: 2023/W-1713	Information provided by the Customer		
Product Category	Pollution & Environment	Sampled by	: Customer	
Sample Name	: Waste Water	Sampling Procedure	: 	
Temperature at the time of Receipt	: 30.1°C	Sample Description	; Waste Water (Outlet)	
Sample Condition Sample Received on	: Fit for analysis : 08.11.2023	Sampling Location	; Kanaganeri Outlet	
Test Started on	: 08.11.2023	Date of Sampling	: 08.11.2023	
Test Completed on	: 15.11.2023	Identification by Customer	: Sample 6	

TEST RESULT	S
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SI.No.	Test Parameter	Test Method	Units	Results				
1	Phosphorus as P	APHA,23rd Edition,2017,4500-P B, C	mg/L	4.10				
2	Faecal Coliforms	WHO Guideliness for drinking water Quality - Vol3	MPN/100 ml	<200 MPN/100ml				

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

Authorized Signatory V. Vunde.

Vimala Venkatachalam

BIOCHEMIST WATER TESTING LABORATORY PUBLIC HEALTH DIVISION

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Report No.: TR/WTL/PHD/PWD/PDY/2023/W-1708

ULR-TC758022000001358F

Date: 15.11.2023

TEST REPORT

Customer Name & Address: The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Customer Reference : Letter dated:08.11.2023 Page 1 of 1

Sample Code	: 2023/W-1708	Information provided by the Customer	
Product Category	Pollution & Environment	Sampled by	: Customer
Sample Name	: Waste Water	Sampling Procedure	·

Sampling Procedure : Waste Water Temperature at the time of

Sample Description

SAMPLE DETAILS

: Waste Water (Outlet)

: 30.1°C Receipt Sample Condition : Fit for analysis

Sampling Location

: Lawspet STP Outlet

Sample Received on Test Started on

S

Drainage Sub-Division

: 08.11.2023 : 08.11.2023

Date of Sampling by Customer : 08.11.2023 : Sample 1

-	Completed on	: 15.11.2023	Identification
			TEST RESU

-	+	TEST RESULTS				
SH	1	Test Parameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water
0		рН @ 25°C	APHA, 23rd Edition,2017,4500-H+B		6.92	5.5 to 9
2	2	Total Suspended Solids @ 103 - 105°C	APHA, 23rd Edition, 2017, 2540 D	mg/L	<10	Less than 10
3	3	Chemical Oxygen Demand	APHA, 23rd Edition, 2017, 5220 B	mg/L	12.4	Not more than 50
4		Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	4.0	Less than 10
5		Total Phosphate as PO4	APHA, 23rd Edn,2017,4500-P B,C	mg/L	2.12	

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

Authorized Signatory

Vimala Venk tachalam

BIOCHE VIST WATER TESTING I ABORATORY PUBLIC HEALT I DIVISION -

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Report No.: TR/WTL/PHD/PWD/PDY/2023/W-1708(Annexe)

Date: 15.11.2023

TEST REPORT

Customer Name & Address : The Assistant Engineer,

Drainage Sub Division, PHD, PWD, Puducherry.

Page 1 of 1

Customer Reference

: Letter dated:08.11.2023

SAMPLE DETAILS

Sample Code	: 2023/W-1708	Information provided by the Customer	
Product Category	Pollution & Environment	Sampled by	: Customer
Sample Name	: Waste Water	Sampling Procedure	·
Temperature at the time of	20.400		
Receipt	: 30.1°C	Sample Description	: Waste Water (Outlet)
Sample Condition	: Fit for analysis		
Sample Received on	08.11.2023	Sampling Location	: Lawspet STP Outlet
Test Started on	: 08.11.2023	Date of Sampling	: 08.11.2023
Test Completed on	: 15.11.2023	Identification by Customer	: Sample 1

TEST RESULTS				
SI.No.	Test Parameter	Test Method	Units	Results
	Phosphorus as P	APHA,23rd Edition,2017,4500-P B, C	mg/L	0.7
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

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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	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.