

No. 6836/NGT/SLMC/SCI/2024/ 298
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

Puducherry, the 12 8 MAR. 2024

To

✓ Shri. Anup Kumar Srivastava
Executive Director (Tech)
National Mission for Clean Ganga
Ministry of Jai Shakti,
1st 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 February, 2024 is enclosed for kind perusal.

Yours sincerely,


(YASAM LAKSHMI NARAYANA REDDY)
DIRECTOR
(DSTE)

Enc1: as stated above

Copy to:

1. The Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan, C.B.D. Cum-Office Complex,
East Arjun Nagar, Delhi — 110 032.
2. Standing Guard File

**Format for submission of Monthly Progress Report in the NGT Matter
OA No.673 of 2018 (in compliance to NGT order dated 24.09.2020)**

For the State of Puducherry

I. Overall status of the State (2011)

Total Puducherry Population : 1247953
Puducherry District Population : 950289
Puducherry Urban Population : 657600 (950289x69.20%)
Puducherry Rural Population : 292689 (950289x30.80%)

II. Estimated Sewage Generation (MLD): 71 MLD (URBAN)

III. Details of Sewage Treatment Plants: Puducherry District

1.	Existing no. of STPs and Treatment Capacity (in MLD) Net Treatment capacity of STP's	3 Nos. of SBR – 51 MLD 2 Nos. of UASB – 5 MLD 2.5 MLD capacity UASB STP at Dubrayapet is in operation on trial basis and the other one at Lawspet is under renovation. Total - 56 MLD 56 – 2.5 = 53.5 MLD
2.	Capacity Utilization of existing STPs: (16.31+16.34+15.84) =48.49 MLD 48.49/53.5= 90.6 %	48.49 MLD (90.6 %)
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: (71-56 =15MLD)	Work order has been awarded on 26.06.2023 to M/s. Eco Protection Engineers Pvt. Ltd., Chennai for construction of 15 MLD STP at Dubraypet. Work is in progress.
5.	No. of Operational STPs:	3 Nos.
6.	No. of Complying STPs	Two STPs are partially meeting the standard. The other STP at Kanaganeri is not meeting the prescribed standard. Direction was issued to PWD.

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	90.6 %	3	Nil

Details of under construction STPs in the State

Sl. No.	Location	Capacity of the plant in MLD	Physical Progress in%	Status of I & D or House sewer connections	Completion TimeLine
1	Puducherry	15	17	90 %	01.07.2024
2	Karaikal	11	15	--	01.12.2024

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	During the Standing Financial Committee held on 29.01.2024, it was directed to include installation of Ultra Filtration Unit in the DPR. Tender was called for on 23.02.2024.	Can be furnished only after finalizing the tender.
2.	Mahe	To construct 0.5 MLD STP at Mahe, tenders were floated twice and no response was received. Third tender was floated and the same opened on 04.01.2024. As only a single bid is received, tender has been floated again. IV th Call of tender fixed on 13.02.2024. Two bidders were participated. Among the two only M/s. Aquachem Envirs Engineers Pvt. Ltd, Mumbai has fulfilled and the other has not qualified. Financial bid was opened on 01.03.2024 and the tenderer has quoted 4.94% above to the estimate cost put to tender Rs.4,78,34,132/-. Based on the tendered cost proposal has been submitted to the Under Secretary (Works) to obtain the Administrative Approval and Expenditure Sanction from LAD vide I.D.No.4968, dt.12.03.2024.		

3.	Yanam	To construction of 6 MLD STP at Yanam, tenders were floated twice and no response was received. Third tender was floated and opened on 31.08.2023 and placed before the work board for consideration. Since the tender cost was 40% higher than the estimated cost, the same was rejected. IV th Call was fixed on 23.02.2024. No response. V th tender call was fixed with the date of opening on 21.03.2024.	
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IV. Details of Industrial Pollution:

1.	No. of industries in the State:	3595
2.	No. of Effluent generating industries in the State:	115
3.	Quantity of effluent generated from the industries in MLD:	4.75 MLD
4.	Quantity of Hazardous Sludge generated from the Industries in TPA:	4828.8 kg/day
5.	Number of industrial units having ETPs:	115
6.	Number of industrial units connected to CETP:	Nil
7.	Number and total capacity of ETPs (details of existing/ under construction/ proposed)	Existing-115 Capacity-4.75 MLD
8.	Compliance status of the ETPs:	Effluent samples were collected from 13 no. of units. 10 units are meeting the standards. Directions are issued to the 3 non-compliance units.
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	4746.2 KLD	Existing-115 nos.	Nil

V. Solid Waste Management:

1.	Total number of Urban Local Bodies and their Population.	5 ULB's (7,28,761, Census 2011)								
2.	Current Municipal Solid Waste Generation.	Total solid waste generation - 382 TPD								
		Sl. No.	ULB	Total waste generated (TPD)						
		1	PM	155						
		2	OM	155						
		3	KM	40						
		4	MM	12						
		5	YM	20						
			Total	382						
3.	Number, Installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg., -Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting),bio-methanation, MRF etc	Integrated MSWM is being taken up for all types of waste by the ULBs.								
		As on 30.09.2023								
		S.No	ULB	Processing	Bio methanation	MRF	MRF through formal sectors	MRF through informal sectors	Total	Percentage of processing
		1	PM	-	-	4	-	3.05	7.05	4.54%
		2	OM	-	1	-	0.5	2.47	3.97	2.38%
		3	KM	40 (Bio composting, vermi, MRF)	-	-	-	-	40	100%
		4	MM	8.5 ((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%
		Composting technologies like Windrows method and other aerobic technologies have been adopted by the new concessionaire in communes of Puducherry and Karaikal.								
4.	Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap> 20%).	Integrated Municipal Solid Waste Management projects including the scope of collection, transportation, processing and disposal are being implemented to handle all the types of waste generated in the ULBs – 477 MTs of waste from entire UT of Puducherry (urban local bodies and commune panchayats together)								
		1. In Puducherry, The Door to Door collection of solid waste is being carried out by M/s. Swatchatha Corporation, Bangalore. For processing of solid waste, letter of Award was issued on 29.09.2023 to M/s. Green Warrior, Chennai. Draft Concession Agreement was notified on 08.12.2023 by Ministry of Housing and Urban Development (MoHU), GoI. In line with the MoHU agreement pattern, Draft Concession Agreement has been framed and sent to Law Department for vetting on 09.12.2023. Preliminary work for establishment of machinery and equipments has commenced and processing of solid waste will be started in the first week of February, 2024.								
		2. For the district of Karaikal, the Letter of Award for Integrated Solid Waste Management project was issued on 22.11.2022 to M/s. HR Square LLP, Hyderabad. 100% of solid waste processing has commenced on 15.10.2023 which includes 1 TPD bio-methanation process and 4 TPD of vermicomposting. High calorific valued waste of 5.5 TPD is being sent for co-processing to the nearby cement factory.								
		3. In Yanam region, Letter of Award was issued on 26.10.2021 to M/s. HR Square LLP, Hyderabad. The Land for processing of solid waste was identified and handed over to concessionaire on 08.12.2023. Yanam is a very small region with an area of only 30 sq.km surrounded by water bodies, marshy land and mangroves. Public objection hindered the works badly for setting up of processing facility. Door to Door collection of solid waste and transportation has commenced since 08.12.2021. Processing has commenced on 20.01.2024.								
		4. Mahe is practicing in-house pipe composting wet waste management and the current concessionaire is taking care of Door to door, segregation and dry waste to MRF separately.								

5.	No. and capacity of C&D waste processing Plants in TPD (existing, proposed and under construction).	Municipalities and commune panchayats in Puducherry and Karaikal includes C&D waste management in their scope of the work.			
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 to Door collection (DTDC)	Ground Status on Source Segregation
		PM	42	100%	43 % (15 wards by Recity)
		OM	37	100%	5.4 % (20 wards by OM)
		KM	18	100%	50%
		YM	14	100%	10%
		MM	15	100%	Weekly basis in commercial area and monthly basis in residential area
(100% segregation is reported in all 5 ULB's Swaththam SBM portal)					
7.	Details of MSW treatment facilities proposed and under construction (no. capacity and technology). Pdy CP's – Puducherry Commune Panchayat Kkl CP's – Karaikal Commune Panchayat	ULB	MSW treatment facilities proposed	Capacity proposed	Status
		Pdy CP's	Integrated Municipal Solid Waste Processing Project at Puducherry commune panchayat	70 TPD	Work order has been issued to M/s. HR Square LLP, Hyderabad for processing of solid waste. Construction of MRF shed, compost platform and establishment of other equipments & machineries has been completed and the Processing of wet solid waste has commenced since 22.01.2024.
		Kkl CP's	Integrated Municipal Solid Waste Processing Project at Puducherry commune panchayat	15 TPD	The Letter of Award for Integrated Solid Waste Management project was issued on 22.11.2022 to M/s. HR Square LLP, Hyderabad. 100% of solid waste processing has commenced on 15.10.2023 which includes 1 TPD bio-methanation process and 4 TPD of vermicomposting. High calorific valued waste of 5.5 TPD is being sent for co-processing to the nearby cement factory.
8.	No. and area (in acres) of uncontrolled Garbage dumpsites and Sanitary Landfills.	3Nos. of controlled Landfills			
		Puducherry		:23.0 acre	
		Karaikal		:8.32 acre	
		Yanam		: 2 acre	
		Total		33.32 acres	
9.	No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers.	Nil			
10.	No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers.	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

Region	Solid waste generated (TPD)	Processed /Recovered (TPD)	Gap (TPD)	Time line
Pondicherry (Urban)	310	Processed -1 Recovered – 9	300	First week of Feb.2024
Pondicherry (Rural)	70	70	-	Commenced
Karaikal	65	65	-	Commenced
Mahe	12	12	-	Commenced
Yanam	20	20	-	Commenced
Total	477	197	300	

Status of Legacy Waste Management:

Sl. No	Region	Accumulated Quantity in MT	Processed in MT	Balance in MT	Timeline for completion
1	Puducherry	(Phase – I) 5.53 lakh tons (Phase – II) 3.48989 MT commenced on 13.10.2023	5.53 lakh tons 184676	Nil 164313	Completed during April, 2023 June 2024
2	Karaikal	85350 commenced on 01.06.2023	62823	22527	April 2024
3	Yanam	21600	2209	19391	31 st March 2024

Mahe Municipality:

- No legacy waste in Mahe Municipality is reported.

VI. Bio-medical Waste Management:

1	Total Bio-medical generation:	4828.8 kg/day
2	No. of Hospitals and Health Care Facilities:	442
3	Status of Treatment Facility/CBMWTF:	One Common Bio-Medical Waste Treatment Facility functional.

VII. Hazardous Waste Management:

1	Total Hazardous Waste generation:	29740 TPA
2	No.of Industries generating Hazardous waste	134 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 – 388.38 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 management of plastic waste:	<p>Government of Puducherry has imposed total ban on single use plastics with effect from 02/08/2019.</p> <p>As per the Government of India Notification Addendum has been notified by the Government of Puducherry for imposing additional SUP items like</p> <p>(i) Ear buds with plastic sticks, plastic sticks for balloons, candy sticks and ice cream sticks;</p> <p>(ii) Polystyrene [Thermocol] for decoration;</p> <p>(iii) Plates, cups, glasses, cutlery such as forks, spoons, knives, trays, stirrers, wrapping or packing films around sweet boxes, invitation cards and cigarette packets</p> <p>(iv) Plastics or PVC banners less than 100 micron;</p> <p>(v) Non-woven plastic carry bags less than 60 Gram per Square Meter (GSM).</p> <p>Standard Operating Procedure (SOP) for making SUP free Government office has been prepared and circulated to all the Government Departments and Industries.</p> <p>Surprise inspections are being carried out.</p> <p>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).</p> <p>As per the order of Hon'ble NGT, Bahour Commune Panchayat (BCP) has been declared as Single Use Plastic Free Commune.</p>

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.

22 drives were conducted and 1550 kg of SUP items have been seized by Local bodies. Rs.35,500/- 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

		<p>of Puducherry, Karaikal, Mahe and Yanam and demo of SUP Portal and Apps of CPCB was held on 13.07.2022.</p> <p>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.</p> <p>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.</p> <p>For Setting up Material Recovery Facility (MRF) for 20 TPD Recyclable Plastic waste from Pondicherry and Oulgaret Municipality, MoU is under process.</p> <p>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.</p>
IX	Details of Alternate Treatment Technology being adopted by the State/UT	Nil
X	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in-situ treatment:	All the drains that reaches the Sankaraparani and Arasalar rivers were identified and in-situ remediation of providing grill grating, sandbar screen are completed in all the 172 drains.
XI	Details of Nodal Officer appointed by Chief Secretary in the State/UT:	The Development Commissioner-cum-Senior Nodal Officer, Government of Puducherry
XII	Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT:	A Review meeting was held on 13.03.2024 on the compliance status of Hon'ble NGT order, dated 25.01.2024 in the matter of O.A.No.606 of 2018, under

		the Chairmanship of the Finance Secretary cum Senior Nodal Officer.
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:	<p>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.</p> <p>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.</p> <p>886 Rain Water Harvesting structure are constructed in the U.T of Puducherry by Department of Agriculture, Ground Water Authority and PWD.</p>
XVII	Demarcation of Flood plain and removal of Illegal encroachments:	Demarcation of flood plain and removal of 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 e-flow of river:	Illegal sand mining 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 in Karaikal 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. Deputy Collector (Revenue), Karaikal informed that as the matter is presently under court case, notification of Mangrove Forest area as Bio-diversity park will not be feasible till the outcome of the judgement.
XXI	Reuse of Treated Water:	Annexure-III
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 was submitted to CPCB dt.24.02.2020. NCCR was requested to carry out marine sampling in the first consultative meeting held on 05.07.2022 and subsequently reminded vide mail dt. 11.10.2022.
XXIV	Regulation of Mining Activities in the State/UT:	Illegal sand mining 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 - 2024

S.No	Parameters	Feb	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	01.02.2024	
2	Time	12.20 P.M	
3	Temp°C	30.0	
4	pH	8.67	6.5-8.5
5	DO (mg/l)	11.3	5 or more
6	BOD (mg/l)	5.5	3 or less
7	Total Coliform MPN/100 ml	<2	
8	Faecal Coliform MPN/100ml	<2	500 (Desirable) and 2500 (Max. Permissible)
9	Faecal Streptococci MPN/100ml	140	100 (Desirable) and 500 (Max. Permissible)

Arasalar River Water Quality Data - 2024

S.No	Parameters	Feb	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	01.02.2024	
2	Time	6.50 A.M	
3	Temp°C	28.0	
4	pH	7.48	6.5-8.5
5	DO (mg/l)	7.5	5 or more
6	BOD (mg/l)	1.1	3 or less
7	Total Coliform MPN/100 ml	<2	
8	Faecal Coliform MPN/100ml	<2	500 (Desirable) and 2500 (Max. Permissible)
9	Faecal Streptococci MPN/100ml	210	100 (Desirable) and 500 (Max. Permissible)

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



No. 33/PPCC/REP/SCI-II/2024
ENVIRONMENTAL ANALYTICAL LABORATORY
DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT
PUDUCHERRY POLLUTION CONTROL COMMITTEE
 NO. 189, GARAGE BUILDING, IVANAR KOIL STREET,
 MARIL OUL GARU, PUDUCHERRY - 605 009,
 Telephone: (0413) 2276222



Puducherry, dt. 26.02.2024

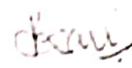
TEST REPORT

Sampling Location : PWD - STP Karuvadikuppam	Sample Id : DSTE/PPCC/W/2176
	Report No. : 36/ 2024
Sample Description : Outlet (SBR-1)	Date of Sampling : 19.02.2024, 12.40 P.M. & Time
Sample Quantity in litres : 3.2 L	Sampling Plan and Method : APHA 23 rd Edition 2017, 1069 B & C
Nature of Sampling : Grab	Sample Collected by : DSTE-PPCC
Test Commenced on : 19.02.2024	Test Completed On : 23.02.2024

Sl. No.	Test Parameters	Protocol	Results	Standard Limit
01	Temperature(°C)	APHA 23 rd Edition 2017, 2550 B Laboratory and Field Method	29.0	--
02	pH @ 25 °C	APHA 23 rd Edition 2017, 4500-H ⁺ B Electrometric Method	7.16	5.5 to 9.0
03	Biochemical Oxygen Demand (BOD) (mg/l) @ 27 °C for 3 Days	IS 3025 (Part 44) - 1993 Reaff : 2009 3 -Day BOD Test	5.5	10
04	Total Suspended Solids (mg/l)	APHA 23 rd Edition 2017, 2540 D Gravimetric Method	10.0	20
05	Chemical Oxygen Demand (COD) (mg/l)	IS 3025 (Part 58) : 2006 (Reaffirmed 2012)	24.2	50

Standard limit: As prescribed by Central Pollution Control Board (CPCB) in Hon'ble NGT order in O.A. No. 1069/2018 dated 30.04.2019.

Authorised Signatory for Chemical


 (G. Rukmani)
 Scientist

Copy to:

1. Scientist, DSTE.
2. JE-II, DSTE.
3. Standing Guard File.

---End of Report---

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Note: Unless otherwise stated the results shown in this report refer only to the sample(s) tested. The report shall not be reproduced except in full without approval of the laboratory.

SMSLA

SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT

ANNEXURE - T



TC-6110

ULR - TC611824000004044F

Report No : EN24020084-01

Page 1 of 1

Report Date : 24 Feb 2024

Customer Name : M/s. The Member Secretary Puducherry Pollution Control Committee
Customer Address : 3rd Floor, PHB Building, Anna Nagar, Puducherry - 5.
Sample Name : Water
Sample Quantity : 1 Ltr x 1 No.
Sample Description : Water
Sample Received on : 21 Feb 2024
Reference : Customer Letter Dated 19.02.2024
Test Started on : 21 Feb 2024
Sample Identification : Sample Code: 2176
Test Completed on : 24 Feb 2024
Sample Drawn By : Customer

TEST RESULTS

S NO	Parameter	Test Method	Unit	Results
Biological				
1	Faecal coliforms	IS 1622	MPN/100mL	1600
Chemical				
2	Total Nitrogen as N	SMSLA/WT/SOP/034	mg/L	26
3	Total Phosphorous as P	APHA 23rd Edition:4500 P B,D 2017	mg/L	7.9

Note : MPN : Most Probable Number.

/***** End of the Report *****/

J. Mohammed Shabir
Authorized Signatory-Biological

M. Sarathikumar
Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchattaram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.

Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.



ANNEXURE - 7

No. 33/PPCC/REP/SCI-II/2024
ENVIRONMENTAL ANALYTICAL LABORATORY
DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT
PUDUCHERRY POLLUTION CONTROL COMMITTEE
NO. 189, GARAGE BUILDING, IVYANAR KOIL STREET,
MARIE OULGARET, PUDUCHERRY - 605 009.
Telephone: (0413) 2276222



TC-6480

TEST REPORT

Puducherry, dt. 26.02.2024

Sampling Location : PWD - STP
Dubrayapet

Sample Id : DSTE/PPCC/W/2179

Sample Description : Outlet (SBR)

Report No. : 39/ 2024

Sample Quantity in litres : 3.2 L

Date of Sampling & Time : 19.02.2024, 2.00 P.M.

Nature of Sampling : Grab

Sampling Plan and Method : APHA 23rd Edition
2017, 1060 B & C

Test Commenced on : 19.02.2024

Sample Collected by : DSTE-PPCC

Test Completed On : 23.02.2024

Sl. No.	Test Parameters	Protocol	Results	Standard Limit
01	Temperature(°C)	APHA 23 rd Edition 2017, 2550 B Laboratory and Field Method	29.0	--
02	pH @ 25 °C	APHA 23 rd Edition 2017, 4500-H ⁺ B Electrometric Method	7.32	5.5 to 9.0
03	Biochemical Oxygen Demand (BOD) (mg/l) @ 27 °C for 3 Days	IS 3025 (Part 44) - 1993 Reaff : 2009 3 -Day BOD Test	5.3	10
04	Total Suspended Solids (mg/l)	APHA 23 rd Edition 2017, 2540 D Gravimetric Method	7.0	20
05	Chemical Oxygen Demand (COD) (mg/l)	IS 3025 (Part 58) : 2006 (Reaffirmed 2012)	20.2	50

Standard limit: As prescribed by Central Pollution Control Board (CPCB) in Hon'ble NGT order in O.A. No. 1069/2018 dated 30.04.2019.

Authorised Signatory for Chemical

(G. Rukmani)
Scientist

- Copy to:
1. Scientist, DSTE.
 2. JLA-II, PPCC.
 3. Standing Guard File.

---End of Report---

Page 1 of 1

Note: Unless otherwise stated the results shown in this report refer only to the sample(s) tested. The report shall not be reproduced except in full without approval of the laboratory.

SMSLA

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TEST REPORT



TC-6118

U/LR - TC611824000004047F

Report No : EN24020084-04

Page 1 of 1

Report Date : 24 Feb 2024

Customer Name : M/s. The Member Secretary Puducherry Pollution Control Committee
 Customer Address : 3rd Floor, PIIB Building, Anna Nagar, Puducherry - 5.
 Sample Name : Water
 Sample Quantity : 1 Ltr x 1 No.
 Sample Description : Water
 Sample Received on : 21 Feb 2024
 Reference : Customer Letter Dated 19.02.2024
 Test Started on : 21 Feb 2024
 Sample Identification : Sample Code: 2179
 Test Completed on : 24 Feb 2024
 Sample Drawn By : Customer

TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results
Biological				
1	Faecal coliforms	IS 1622	MPN/100ml.	1600
Chemical				
2	Total Nitrogen as N	SMSLA/WT/SOP/034	mg/l.	11
3	Total Phosphorous as P	APHA 23rd Edition:4500 P D, D 2017	mg/l.	2.3

Note : MPN : Most Probable Number.

/***** End of the Report *****/

J. Mohammed Shabir
 Authorized Signatory-Biological

M. Sarathkumar
 Authorized Signatory-Chemical

Laboratory Address: 39/6, Thiruvallur High Road, Puduchatram Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124.
 Note: Test results relate only to the items tested. Test Report shall not be reproduced in full or part without the approval of SMS Labs. Non-Perishable remnant samples will be disposed 15 days from the date of receipt unless otherwise agreed with the customer except in case of regulatory samples, which will be retained for a specific period as per regulatory requirements; while perishable and environmental remnant samples will be disposed consequently upon completion of testing. Samples are not drawn by laboratory unless or otherwise stated. A satisfactory test report in no way implies that a product so tested is approved by NABL. The Laboratory accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted



No. 33/PPCC/REP/SCI-II/2024
 ENVIRONMENTAL ANALYTICAL LABORATORY
 DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT
 PUDUCHERRY POLLUTION CONTROL COMMITTEE
 NO. 189, GARAGE BUILDING, IYYANAR KOIL STREET,
 MARIE OULGARET, PUDUCHERRY - 605 009.
 Telephone: (0413) 2276222



TEST REPORT

Puducherry, dt. 26.02.2024

Sampling Location : PWD - STP
 Near Kanagan Lake

Sample Description : Outlet (SBR)

Sample Quantity in litres : 3.2 L

Nature of Sampling : Grab

Test Commenced on : 19.02.2024

Sample Id : DSTE/PPCC/W/2180

Report No. : 40/ 2024

Date of Sampling & Time : 19.02.2024, 3.00 P.M.

Sampling Plan and Method : APHA 23rd Edition 2017, 1060 B & C

Sample Collected by : DSTE-PPCC

Test Completed On : 23.02.2024

Sl. No.	Test Parameters	Protocol	Results	Standard Limit
01	Temperature(°C)	APHA 23 rd Edition 2017, 2550 B Laboratory and Field Method	30.0	--
02	pH @ 25 °C	APHA 23 rd Edition 2017, 4500-H ⁺ B Electrometric Method	7.56	5.5 to 9.0
03	Biochemical Oxygen Demand (BOD) (mg/l) @ 27 °C for 3 Days	IS 3025 (Part 44) – 1993 Reaff : 2009 3 -Day BOD Test	41.0	10
04	Total Suspended Solids (mg/l)	APHA 23 rd Edition 2017, 2540 D Gravimetric Method	24.0	20
05	Chemical Oxygen Demand (COD) (mg/l)	IS 3025 (Part 58) : 2006 (Reaffirmed 2012)	84.7	50

Standard limit: As prescribed by Central Pollution Control Board (CPCB) in Hon'ble NGT order in O.A. No. 1069/2018 dated 30.04.2019.

Authorised Signatory for Chemical

(Signature)
 (G. Rukmani)
 Scientist

Copy to:

1. Scientist, DSTE.
2. JE-II, DSTE.
3. Standing Guard File.

---End of Report---

Page 1 of 1

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SMSLA

SMS LABS SERVICES PRIVATE LIMITED

TEST REPORT



TC-6118

U.R. - TC 611824000040481
Report No - 1124020084-05

Page 1 of 1
Report Date : 24 Feb 2024

Customer Name : M/s. The Member Secretary Puducherry Pollution Control Committee
Customer Address : 3rd Floor, PHB Building, Anna Nagar, Puducherry - 5.
Sample Name : Water
Sample Description : Water
Reference : Customer Letter Dated 19.02.2024
Sample Identification : Sample Code, 2180
Sample Drawn By : Customer


Sample Quantity : 1 Ltr x 1 No.
100 ml x 1 No.
Sample Received on : 21 Feb 2024
Test Started on : 21 Feb 2024
Test Completed on : 24 Feb 2024

TEST RESULTS

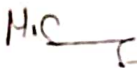
S.NO	Parameter	Test Method	Unit	Results
Biological				
1	<i>Escherichia coli</i>	IS 1622	MPN/100ml.	16/00
Chemical				
2	Total Nitrogen as N	SMSLA/WT/SOP/034	mg/L.	18
3	Total Phosphorus as P	APHA 23rd Edition 4500 P B, D 2017	mg/L.	21

Note : MPN - Most Probable Number.

/***** End of the Report *****/


J. Mohammed Shabir

Authorized Signatory-Biological



M. Sarathkumar
Authorized Signatory-Chemical

Laboratory Address: 39/5, Thiruvallur High Road, Puduchattam Post, Thirumazhisai Via, Poonamallee Taluk, Chennai - 600124

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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	6.0 MLD
	Coconut Plantation	
	Silk cotton trees	
	Natural recharging through impounding reservoir	9 MLD
Dubrayapet STP	To Pandy Marina Hotel	0.3 MLD
	Total	16.1 MLD