

**BEFORE THE NATIONAL GREEN TRIBUNAL  
PRINCIPAL BENCH, NEW DELHI**

**OA NO. 606/2018**

**In re:** Compliance of Municipal Solid Waste Management Rules, 2016  
and other environmental issues vs.

INDEX

S. No.	Particulars	Page No.
1.	In compliance with the Hon'ble National Green Tribunal, Principal Bench, order 24.11.2022 in OA No. 606/2018, 4 <sup>th</sup> Six Monthly Progress Report	1-27

Through



**Abhimanyu Garg**

**Standing Counsel, Govt. of Puducherry**

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Place Delhi

Date 15.03.2025

No. 606/PPCC/NGT/SPR/SEE/2025/194  
GOVERNMENT OF PUDUCHERRY  
DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT  
PUDUCHERRY POLLUTION CONTROL COMMITTEE  
3<sup>rd</sup> Floor, Housing Board Complex, Anna Nagar, Puducherry - 5.  
Phone: (0413) 2201256 Fax: (0413) 2203494

Puducherry, the 10 MAR 2025

To

The Registrar General  
Hon'ble National Green Tribunal  
Principal Bench  
New Delhi - 110 001.

Sir,

Sub: DSTE - Submission of 4<sup>th</sup> Six Monthly Progress Report on the compliance of the Hon'ble National Green Tribunal directions dt. 24.11.2022 in O.A. No. 606 of 2018 - Reg.

Ref: Order of Hon'ble NGT in O.A. No. 606 of 2018 dated 24.11.2022

\*\*\*

In compliance with the Hon'ble National Green Tribunal, Principal Bench, order dated 24.11.2022 in O.A. No. 606/2018, 4<sup>th</sup> Six Monthly Progress Report is enclosed for kind perusal.

This got approval of the Chief Secretary, Government of Puducherry.

Yours sincerely,

  
(YASAM LAKSHMI NARAYANA REDDY)  
DIRECTOR  
(DSTE)

Copy to:

1. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032.
2. Guard file



**Fourth Six Month's Progress Report on Compliance of  
the Hon'ble NGT Direction Dated 25.01.2024 in Original  
Application No. 606 of 2018**

**Submitted by  
Chief Secretary, Government of Puducherry  
February, 2025**

## **TABLE OF CONTENTS**

Sl. No	Contents	Page No.
1	<b>Introduction</b>	1
2	<b>Solid Waste Management</b>	2
2.1	<b>Legacy Waste Disposal</b>	2
2.2	<b>Solid Waste Processing</b>	2-5
3	<b>Sewage Management</b>	6
3.1	<b>Construction of Sewage Treatment Plant (STP)</b>	6
3.2	<b>Under Ground Sewer Connection</b>	7
3.3	<b>Compliance with the discharge Standards</b>	7
3.4	<b>Utilization of the treated sewage</b>	7-8
4	<b>Ring fenced amount</b>	8-10
	<b>Fig 1: Facility available in Kurmbapet Solid Waste Processing Plant</b>	3
	<b>Fig 2: Facility available in Karaikal Solid Waste Processing Plant</b>	5
	<b>Annexure – I Treated Sewage analysis report</b>	11-16
	<b>Annexure – II A –II C Hon’ble NGT prescribed filled format</b>	17-24



## 1. Introduction

The Hon'ble National Green Tribunal (NGT) (PB) in its order dated 24.11.2022 in OA. No. 606 of 2018 directed the Government of Puducherry to submit six month's progress report on solid and liquid waste management.

Accordingly, the first, second and third six month's progress reports were submitted on 08.06.2023, 23.01.2024 and 18.07.2024 respectively.

The Hon'ble NGT reviewed the progress in the solid waste and the sewage management in the U.T. of Puducherry during its last hearing held on 25.07.2024. The hearing was attended by the Chief Secretary, the Finance Secretary, the Commissioner-cum-Secretary (Environment & Local Administration), Director (Env't), Director LAD, Chief Engineer, PWD and Member Secretary, PPCC through virtual mode.

The updated progress report as on 15.02.2025 on the disposal of the legacy waste, solid waste processing, bridging the gap in sewage treatment, utilization of the treated sewage, performance of the existing STPs and details of the ring-fenced fund have been presented in this fourth six month's progress report.

## **2. Solid Waste Management**

### **2.1 Legacy Waste**

All the accumulated legacy waste in the Puducherry Region was disposed by Bio-mining process, executed by M/s. Zigma Global Enviro Solution Pvt. Ltd., Erode, authorized by the Puducherry Pollution Control Committee.

The earlier legacy waste of 5,33,300 MT was completely bio-mined in phase-I and was completed on 30.04.2023. Subsequently, the remaining 3,48,989 MT of the legacy waste was bio-mined in phase-II and completed on 16.08.2024.

In the Karaikal Region, all the accumulated legacy waste of 67,030 MT was bio-mined and completed in July, 2024.

In the Yanam Region, all the accumulated legacy waste of 21,600 MT was bio-mined and completed in February, 2025.

### **2.2 Solid Waste Processing**

The processing of solid waste generated from the urban areas has been assigned to M/s. Green Warrior, Chennai. The firm has established a Facility with processing capacity of 370 TPD and commenced processing with effect from 01.02.2024. The processing plant consists of 5 mechanical trommels with 250 mt. conveyor belt, six

wind rows, windrows turner, 40,000 Sq.ft MRF, RDF unit, Shredder-60 TPD and bailing machine-160 TPD. The details of various components of the facility are given below:

Compost	240 TPD
RDF	120 TPD
Recycled	2 TPD
Inert	8 TPD
Total	370 TPD

Details of windrows are as given below:

List of Windrow	Length	Breath	Height
First Windrow	32	16	10
Second Windrow	80	15	10
Third Windrow	67	15	11
Fourth Windrow	52	14	13
Five Windrow	54	31	16
Six Windrow	96	22	21

Fig 1. Facility available in Kurumbapet solid waste processing plant



Mechanical Segregation line



RDF Plant



Fresh waste manual segregation



Composting yard

The composts are utilized by the farmers in Puducherry and Tamilnadu areas. RDF is sent to M/s. Dalmia Cement, Ariyalur, M/s. Ultra Tech, Trichy and M/s. Ambuja Cement plant, Andhra Pradesh for co-processing. Recyclable wastes are sold to the local vendors. The inert materials are stored separately and used for land filling.

The solid waste generated in the Rural areas are collected, transported and processed by M/s.HR Square, Hyderabad. The processing facility available is given below:

<b>PRESORTING SECTION</b>	<b>NOS / QTY</b>
No of Trommels	2
Shed Dimensions	10800 Sft (120 X 90)

<b>DRY WASTE SECTION</b>	
Shed Dimensions	7200 Sft (120 x60)

<b>COMPOST SECTION</b>	
Windrow Platform Dimensions	14400 Sft (120*60)+(120*60)
Windrow Platform Capacity	2000 Mtns
Heap Dimensions	3 Mts Width / 5 Mts Length / 1.5 Mts Height
No of Hips	60

Karaikal Region generates 65 TPD of solid waste. The processing of solid waste has been assigned to M/s. HR Square, Hyderabad. The firm has established a facility with the following components.

Compost	55 TPD
RDF	10 TPD
Total	65 TPD

Mahe Region generates 12 TPD of solid waste. As every house is having larger backyard, all the wet solid waste is bio-mined. Dry waste is sent to MRF.

Yanam region generates 20 TPD of solid waste. The processing of solid waste was commenced on 20.01.2024 by M/s. HR Square, Hyderabad. Due to public objection and intervention of the Hon'ble NGT (SZ) processing has been stopped in the site. Currently reusable plastic waste is segregated and inert are used for land filling. The Yanam municipality has identified a private site at ward A, Block 2, T.S. No. 4 measuring to an extent of 0.81 Ha for the purpose of solid waste processing.

Fig. 2. Facility available in Karaikal solid waste processing plant



Mechanical separator



Vermi compost



Compost



RDF Plant

### **3. Sewage Management**

#### **3.1 Construction of Sewage Treatment Plants (STP)**

The construction activity of the installation of 15 MLD STP in Dubrayapet, Puducherry is progressing as per the scheduled. 90% of electromechanical instruments have been supplied. The work has reached physical progress of 75% and financial progress of 72%. The work will be completed by June, 2025 instead of March 2025 as submitted in the third six-month's progress report. Continuous unusual heavy rain and fengal cyclone caused the delay in completion of the STP.

The construction of 11 MLD STP in Karaikal has reached 65% physical progress and 38% financial progress. The construction will be completed by June, 2025 instead of March 2025 as submitted in the third six-month progress report. Continuous unusual heavy rain and fengal cyclone caused the delay in completion of the STP.

Tender has been finalised for the construction of 0.5 MLD STP in Mahe. The construction will be completed by December, 2025. For the construction of the 6 MLD STP in Yanam, Tender has been finalized. The construction will be completed by December, 2025.

### **3.2 Under Ground Sewer Connection**

Out of 10,432 unconnected HHS to the UGD, 1100 HHS have got connectivity. The Joint Task Force constituted under the chairmanship of the SEE (PWD) is taking sincere efforts to ensure 100% connectivity at the earliest.

### **3.3 Compliance with the discharge Standards**

All the three 17 MLD STPs are operating in SBR technology and monitored by a dedicated technical team of PWD. In view of the non-satisfactory performance of M/s. Ramkey infra structure Pvt. Ltd. Hyderabad, Operation & Maintenance work for Kananagan Eri STP has been assigned to M/s. Eco Chem Sales and Services, Gujarath. All the three STPs meet the Hon'ble NGT prescribed standards. (Annexure-I).

### **3.4 Utilization of the treated Sewage**

Government of Puducherry has formulated an Action Plan and constituted a committee for the effective the utilization of the treated sewage. PPCC invariably incorporating a condition in the CTE/CTO to utilize treated sewage / effluent for non – portable activity.

Out of 51 MLD available treated sewage, 16.3 MLD is being utilized for various activity as given below:

Station	Purpose	Quantity (MLD)
Lawspet STP	Industrial usage	0.8
	Fodder Grass raising	6.0
	Coconut Plantation	
	Silk cotton trees	
	Natural recharging through Impound in reservoir	9.0
Dubrayapet STP	To Pondy Marina Hotel	0.3
Other STPs	M/s.Solara, M/s.Chemfab	0.2
<b>Total</b>		<b>16.3</b>

The proposal for laying of pipeline to utilize 5 MLD treated sewage from the Lawspet STP by M/s. Chemfab Alkalis has been approved by the Tamil Nadu Coastal Zone Management Authority as it is passing through Tamil Nadu state. It has been recommended by the Expert Appraisal Committee of the Ministry of Environment Forest and Climate Change, Govt. of India for CRZ clearance.

#### 4. Ring Fenced Account

As directed by the Hon'ble NGT, a separate Ring-Fenced Account in the name of "Green W2W Ring Fenced" was opened on 20.08.2024 in the Indian Bank, Kamaraj Salai Branch, Puducherry with Account No. 7848651197. Before opening the ring fenced account the details of NGT funds parked in various bank accounts are given below:-

Sl. No.	Name of the Project	A/c. No. & Bank Details	Date of Opening the Bank Account	Amount (In Rs. Cr)
1.	Disposal of the Legacy Waste	007001000223344 Indian Overseas Bank, Puducherry.	24.11.2022	23.13
2.	Processing of Solid Waste	007001000445566 Indian Overseas Bank, Puducherry.	15.12.2022	14.22
3.	STP – Puducherry (15MLD + 3MLD) STP- Karaikal (11MLD)	7558639554 Indian Bank, Puducherry.	21.07.2023	02.19
4.	STP- Mahe (0.5 MLD) STP-Yanam (6 MLD)	1230197000000045 Karur Vysya Bank, Puducherry.	22.06.2023	12.75
Grand Total				52.29

After opening the separate ring fenced account the above funds were transferred to the exclusive ring fenced account and various NGT transactions carried out are given below:-

Sl. No.	Date	Deposit (In Rs.)	Withdrawal (In Rs.)	Balance (In Rs.)
As on	23.08.2024			52,29,64,385.00
	30.09.2024	Interest - 15,75,234.00	-	52,45,39,619.00
Release of funds	05.10.2024	-	15,99,27,393.00	36,46,12,226.00
	29.11.2024	-	12,14,37,122.00	243,1,75,104.00
	02.12.2024	-	18,59,59,616.00	5,72,15,486.00
	31.12.2024	Interest - 17,90,262.00	-	5,90,05,750.00
	21.01.2025	4,50,26,145.00	-	10,40,31,895.00
Release of funds	11.02.2025	-	4,50,26,145.00	5,90,05,750.00
Grand Total		57,13,56,026.00	51,23,50,276.00	5,90,05,750.00

The scheme wise commitment given to the Hon'ble NGT, the expenditure prior to opening of ring fenced account and after to opening of ring fenced account are as follows:

Sl. No.	Scheme	Commitment given by the CS before NGT on 24.11.2022	Amount utilized Prior to opening of ring-fenced account	Amount utilized after opening of Ring-fenced account	Total
1.	Disposal of the Legacy Waste	Rs. 48.27 cr	Rs. 73.06 cr	Rs. 15.99 cr	Rs. 89.05 cr
2.	Solid Waste Processing	Rs. 50.00 cr	Rs. 54.80 cr	Rs. 18.59 cr	Rs. 73.39 cr
3.	Construction of STPs	Rs. 80.65 cr	Rs. 11.41 cr	Rs. 16.64 cr [12.14 + 4.50]	Rs. 28.05 cr
	Total	Rs. 178.92 Cr	Rs. 139.27 cr	Rs. 51.22 cr	Rs. 190.49 cr

Further an amount of Rs. 28.58 Cr. is available in RE 2024-25.

GOVERNMENT OF PUDUCHERRY  
WATER TESTING LABORATORY  
P.H.D., P.W.D., PUDUCHERRY



Report No. : TR/WTL/PHD/PWD/PDY/2024/W-2343  
ULR-TC75802400001357F

Date: 09.01.2025

**TEST REPORT**

**Customer Name & Address** : The Assistant Engineer,  
Drainage Sub Division, PHD., PWD., Puducherry.

Page 1 of 1

**Customer Reference** : Letter dt. 27.12.2025

**SAMPLE DETAILS**

Sample Code	: 2024/W-2343	<b>Information provided by the Customer</b>	
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	: Kanaganeri STP Outlet
Sample Received on	: 27.12.2024	Date of Sampling	: 27.12.2024
Test Started on	: 27.12.2024	Identification by Customer	: Sample 6
Test Completed on	: 09.01.2025		

**TEST RESULTS**

Sl.No.	Test Parameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water
1	pH @ 25°C	APHA, 24th Edition, 2023, 4500-H+B	--	7.44	5.5 to 9
2	Total Suspended Solids @ 103 - 105°C	APHA, 24th Edition, 2023, 2540 D	mg/L	<10	Less than 20
3	Chemical Oxygen Demand	APHA, 24th Edition, 2023, 5220 B	mg/L	15.9	Not more than 50
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	8.0	Less than 10

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

*L. Anita Ben*  
Authorized Signatory

**L. Anita Ben**  
BIOCHEMIST  
WATER TESTING LAB  
PUBLIC HEALTH DIVISION  
P.W.D. PUDUCHERRY,

Copy submitted to:

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

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC61182500006731F  
Report No : QEN250206008-02

Page 1 of 1  
Report Date : 10 Feb 2025

**Customer Name** : M/s. 17 MLD Sewage Treatment Plant-Kanaganeri  
**Customer Address** : Kanaganeri, Kathirkamam Puducherry-605 009.

**Sample Name** : STP Outlet Water      **Sample Quantity** : 2Ltr x 1No  
**Sample Description** : STP Outlet Water      **Sample Received on** : 06 Feb 2025  
**Reference** : Test Request Form Dated 29.01.2025      **Test Started on** : 06 Feb 2025  
**Sample Drawn By** : Customer      **Test Completed on** : 10 Feb 2025

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	As per NGT Limit
<b>Biological</b>					
1	Faecal Coliforms	APHA 24th Edition 9221 Cl E - 2023	MPN/100mL	70	Desirable - 100 Permissible - 230
<b>Chemical</b>					
2	Total Nitrogen as N	SMSLA/WT/SOP/034 - 2024	mg/L	2.9	10 Max
3	Total Phosphorous as P	APHA 24th Edition 4500 P B, D - 2023	mg/L	BLQ(LOQ:0.05)	1.0 Max

**Note** : MPN : Most Probable Number. BLQ: Below Quantification Limit, LOQ: Limit of Quantification.  
**Remarks** : The STP Outlet Water Sample Conforms to the NGT Discharge limit for the Parameters tested above.

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

B. Karthikeyan  
B.Karthikeyan

Authorized Signatory-Chemical

J.Mohammed Shabir  
Authorized Signatory-Biological

Laboratory Address: 39/6, Thiruvallur High Road, Puduchattam 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.

**GOVERNMENT OF PUDUCHERRY  
WATER TESTING LABORATORY  
P.H.D., P.W.D., PUDUCHERRY**



Report No. : TR/WTL/PHD/PWD/PDY/2024/W-2341  
ULR-TC758024000001355F

Date: 09.01.2025

**TEST REPORT**

**Customer Name & Address** : The Assistant Engineer,  
Drainage Sub Division, PHD., PWD., Puducherry.  
**Customer Reference** : Letter dt. 27.12.2024

Page 1 of 1

**SAMPLE DETAILS**

Sample Code	: 2024/W-2341	<b>Information provided by the Customer</b>	
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	: 27.12.2024	Date of Sampling	: 27.12.2024
Test Started on	: 27.12.2024	Identification by Customer	: Sample 4
Test Completed on	: 09.01.2025		

**TEST RESULTS**

Sl.No.	Test Parameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water
1	pH @ 25°C	APHA, 24th Edition, 2023, 4500-H+B	--	7.32	5.5 to 9
2	Total Suspended Solids @ 103 - 105°C	APHA, 24th Edition, 2023, 2540 D	mg/L	<10	Less than 20
3	Chemical Oxygen Demand	APHA, 24th Edition, 2023, 5220 B	mg/L	15.1	Not more than 50
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	7.60	Less than 10

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

*L. Anita Ben*  
**Authorized Signatory**  
**L. Anita Ben**  
BIOCHEMIST  
WATER TESTING LAB  
PUBLIC HEALTH DIVISION  
P.W.D. PUDUCHERRY.

**Copy submitted to:**

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

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC61182500006735F  
Report No : QEN250206005-02

Page 1 of 1  
Report Date : 10 Feb 2025

**Customer Name** : M/s. 17 MLD Sewage Treatment Plant-Laurspet  
**Customer Address** : Laurspet, Puducherry.  
**Sample Name** : STP Outlet Water  
**Sample Description** : STP Outlet Water  
**Reference** : Test Request Form Dated 29.01.2025  
**Sample Drawn By** : Customer

**Sample Quantity** : 2Ltr x 1No  
**Sample Received on** : 06 Feb 2025  
**Test Started on** : 06 Feb 2025  
**Test Completed on** : 10 Feb 2025

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	As per NGT Limit
<b>Biological</b>					
1	Faecal Coliforms	APHA 24th Edition 9221 Cl E - 2023	MPN/100mL	70	Desirable - 100 Permissible - 230
<b>Chemical</b>					
2	Total Nitrogen as N	SMSLA/WT/SOP/034 - 2024	mg/L	8.9	10 Max
3	Total Phosphorous as P	APHA 24th Edition 4500 P B, D - 2023	mg/L	BLQ(LOQ:0.05)	1.0 Max

Note : MPN : Most Probable Number. BLQ: Below Quantification Limit, LOQ: Limit of Quantification.  
Remarks : The STP Outlet Water Sample Conforms to the NGT Discharge limit for the Parameters tested above.

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

*B. Karthikeyan*  
B.Karthikeyan  
Authorized Signatory-Chemical

*J. Mohammed Shabir*  
J.Mohammed Shabir  
Authorized Signatory-Biological

Laboratory Address: 39/6, Thiruvallur High Road, Puduchattam Post, Thirumazhisai Via, Fosnamallee 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.

GOVERNMENT OF PUDUCHERRY  
WATER TESTING LABORATORY  
P.H.D., P.W.D., PUDUCHERRY



Report No. : TR/WTL/PHD/PWD/PDY/2024/W-2339  
ULR-TC758024000001353F

Date: 09.01.2025

**TEST REPORT**

**Customer Name & Address** : The Assistant Engineer,  
Drainage Sub Division, PHD., PWD., Puducherry.  
**Customer Reference** : Letter dt. 27.12.2025

Page 1 of 1

**SAMPLE DETAILS**

Sample Code	: 2024/W-2339	<b>Information provided by the Customer</b>			
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	: Dubrayapet STP Outlet		
Sample Received on	: 27.12.2024	Date of Sampling	: 27.12.2024		
Test Started on	: 27.12.2024	Identification by Customer	: Sample 2		
Test Completed on	: 09.01.2025				

**TEST RESULTS**

Sl.No.	Test Parameter	Test Method	Units	Results	NGT Standards for treated Sewage for discharge into surface water
1	pH @ 25°C	APHA, 24th Edition, 2023, 4500-H+B	--	7.24	5.5 to 9
2	Total Suspended Solids @ 103 - 105°C	APHA, 24th Edition, 2023, 2540 D	mg/L	<10	Less than 20
3	Chemical Oxygen Demand	APHA, 24th Edition, 2023, 5220 B	mg/L	13.5	Not more than 50
4	Biochemical Oxygen Demand (3 days at 27°C)	IS 3025 Part44; (1994); RA2014	mg/L	5.20	Less than 10

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

*L. Anita Ben*  
**Authorized Signatory**  
**L. Anita Ben**  
BIOCHEMIST  
WATER TESTING LAB  
PUBLIC HEALTH DIVISION  
P.W.D. PUDUCHERRY.

Copy submitted to:  
The Executive Engineer,  
PHD., PWD., Puducherry.

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# SMS LABS SERVICES PRIVATE LIMITED

## TEST REPORT



TC-6118

ULR - TC61182500006733F  
 Report No : QEN250206009-02

Page 1 of 1  
 Report Date : 10 Feb 2025

**Customer Name** : M/s. 17 MLD Sewage Treatment Plant-Dubrayapet  
**Customer Address** : Near New Light House, Dubrayapet, Puducherry-605001.  
**Sample Name** : STP Outlet Water **Sample Quantity** : 2Ltr x 1No  
**Sample Description** : STP Outlet Water **Sample Received on** : 06 Feb 2025  
**Reference** : Test Request Form Dated 29.01.2025 **Test Started on** : 06 Feb 2025  
**Sample Drawn By** : Customer **Test Completed on** : 09 Feb 2025

### TEST RESULTS

S.NO	Parameter	Test Method	Unit	Results	As per NGT Limit
<b>Biological</b>					
1	Faecal Coliforms	APHA 24th Edition 9221 Cl E - 2023	MPN/100mL	90	Desirable - 100 Permissible - 230
<b>Chemical</b>					
2	Total Nitrogen as N	SMSLA/WT/SOP/034 - 2024	mg/L	5.6	10 Max
3	Total Phosphorous as P	APHA 24th Edition 4500 P B, D - 2023	mg/L	0.36	1.0 Max

**Note** : MPN : Most Probable Number.

**Remarks** : The STP Outlet Water Sample Conforms to the NGT Discharge limit for the Parameters tested above.

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

*B. Karthikeyan*  
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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.

## LEGACY WASTE

(i) Name of District	(ii) Legacy waste site (District wise)	(iii) Area covered by the legacy waste (District wise)	(iv) Quantity of the waste (in MT) in each site	(v) Composition of the Waste in MT				(vi) Process adopted to remediate at each site	(vii) Timeline to process at each site)	(viii) Final destination of the component at (v)	(ix) Action plan to remediate and recover the sites at (iii) (in sq.km.) with earmarked Budget (District Wise)
				a) Inerts (%) (Construction Waste, Wood, Glass, etc)	b) Compost (%) organic (Fine Sand)	c) RDF (%) Plastic	d) Other scraps (%)				
Puducherry	Kurumbapet	12.96 Acres	26,861 MT	12 to 13% (3,223MT)	50 to 51% (13,430)	16 to 18% (4297MT)	1 to 2% (537MT)	Biomining & Bioremediation	Completed ,August 2024	1.RDF to Cement factory. 2. Fine coarse soil used for filling up of low lying areas. 3.Stones used for road Formation.	12.61 acres of land has been reclaimed.  Agreement cost is Rs.42.60 Crs.
Yanam	UKV Nagar		21,600MT	6 to 8% (1100 MT)	56 to 60% (9950 MT)	6 to 8% (980MT)	12 to 15% (1500MT)	Biomining & Bioremediation	Completed on February 2025	1. RDF to Cement factory. 2. Fine coarse soil used for filling up of low lying areas. 3. Stones used for road Formation.	21,600 MT of legacy waste was bio-mined and disposed on 31.01.2025. Agreement cost Rs.2.30 Crs.

## DAILY SOLID WASTE GENERATION

(i) Name of District	(ii) Waste generation (in TPD) District wise)	(iii) Break up of Waste Generated District wise (in TPD)		(iv) Method of Treatment in the District (in TPD)				(v) Final Destination of Each of components of (iv)	(vi) Break up details of waste processing District Wise					(vii) Action Plan to Process 100% Waste		
				a)	b)	c)	d)		Energy Plants (Waste to Energy Plants)	Bio Compost Units	Used in Cement Units	Land Fill Sites	Other uses of inerts	Time lines	Budget outlay	Proposal
Puducherry Region	Puducherry	370		Compost - 240 TPD	Filling urban low lying areas - 8 TPD	RDF for cement industries - 120 TPD	Recoverable - 2 TPD	-	1	120 TPD	8 TPD	-	Phase I on going Phase II June 2025	58 Cr.	Proposal in II Phase 1. Bio CBG. 2. Pyrolysis 3. Pellets 4. Carbon block. 5. Paver block	
Puducherry Region	Puducherry		70	Compost - 50 TPD	Filling low lying areas - 3 TPD	RDF - 15 TPD	Recoverable - 2 TPD	Nil	55 TPD	15 TPD	13 TPD	Nil	On going, 100% achieved	18 Cr.	Proposed for 50 TPD Bio CBG & CNG in the year 2025	

## ANNEXURE II B

## DAILY SOLID WASTE GENERATION

(i) Name of District	(ii) Waste generation (in TPD) District wise)	(iii) Break up of Waste Generated District wise (in TPD)		(iv) Method of Treatment in the District (in TPD)				(v) Final Destination of Each of components of (iv)	(vi) Break up details of waste processing District Wise					(vii) Action Plan to Process 100% Waste		
				a)	b)	c)	d)		Energy Plants (Waste to Energy Plants)	Bio Compost Units	Used in Cement Units	Land Fill Sites	Other uses of inerts	Time lines	Budget outlay	Proposal
	State/ UT	Urban Areas (ULB)	Rural Areas	Organic Material (Wet Waste)	Inert	RDF	Other C & D									
Karaikal Region	Puducherry	65	25	Rapid compost -65 TPD Vermi compost – 5 TPD	Filling low lying areas – 3 TPD	RDF -15 TPD	Recyclable - 2 TPD	1. Supply to farmers (Compost) 2. Supply to Cement Factories (RDF) 3. For RRP Unit.		70 TPD	15 TPD	3 TPD	-	Already processing		100 % is being carried out

## ANNEXURE II B

## DAILY SOLID WASTE GENERATION

(i) Name of District	(ii) Waste generation (in TPD) District wise)	(iii) Break up of Waste Generated District wise (in TPD)		(iv) Method of Treatment in the District (in TPD)				(v) Final Destination of Each of components of (iv)	(vi) Break up details of waste processing District Wise					(vii) Action Plan to Process 100% Waste		
				a)	b)	c)	d)		Energy Plants (Waste to Energy Plants)	Bio Compost Units	Used in Cement Units	Land Fill Sites	Other uses of inerts	Time lines	Budget outlay	Proposal
Yanam Region	22	Wet waste 15	Dry waste 7	15 TPD	Filling low lying areas - 1TPD	-	Recyclable 3 TPD	Recyclable sold the vendors	-	-	-	-	-	December 2025		Composting RDF
Mahe Region	12	Wet waste 8	Dry waste 4	Pipe composting - 8 TPD			Material Recovery facility - 4 TPD	Compost Horticulture						100% processing is in place		

## DETAILS OF SEWAGE TREATMENT

(i) Name of District	(ii) Sewage generation District wise population	(iii) Sewage generation Quantity		Details of Treatment of Sewage (District wise)						(v) Details of disposal of untreated sewage (MLD) (District wise)					(vi) Action plan to treat untreated sewage (District wise)	
										(a) Final destination of Discharge of untreated sewage	(b) If (a) above is let out in its quality					
Urban areas	Rural Areas	By STP (MLD)	Type of STP	Disinfection method in STP	Discharge water quality from STP including Fecal & E-coli	Final discharge of Treated STP water (MLD)	Other mode of treatment (MLD)									
Puducherry	71 MLD Urban	71 MLD	-	56 MLD (Urban)	3nos of SBR each 17MLD & 2nos of UASB each 5 MLD	Chlorination (Post)	For the Month January 2025 <b>STP at Lawspet</b> pH – 7.32; TSS <10 mg/l; COD – 15.1 mg/l; BOD – 7.6 mg/l; Faecal Coliforms – 70 MPN Total N – 2.6 mg/l Total P – 0.08 mg/l	40 MLD	Soak pits septic tank				40 MLD		STP 15 MLD capacity is under construction. Will be completed by 30.06.2025.	Rs. 33.02 Cr. is allotted under AMRUT.

(i) Name of District	(ii) Sewage generation on District wise population	(iii) Sewage generation Quantity		Details of Treatment of Sewage (District wise)						(v) Details of disposal of untreated sewage (MLD) (District wise)					(vi) Action plan to treat untreated sewage (District wise)	
										(a) Final destination of Discharge of untreated sewage	(b) If (a) above is let out in its quality					
		Urban areas	Rural Areas	By STP (MLD)	Type of STP	Disinfection method in STP	Discharge water quality from STP including Fecal & E-coli	Final discharge of Treated STP water (MLD)	Other mode of treatment (MLD)	Wet land	Pond	River	Sea	Other Water Body	Time lines	Budget Outlay (Cr)
							<b>STP at Dubrayapet</b> pH – 7.24; TSS <10 mg/l; COD – 13.5 mg/l; BOD – 5.20 mg/l; Faecal Coliforms 90 MPN Total N – 3.6 mg/l Total P – 0.21 mg/l  <b>STP at Kanagneri</b> pH – 7.44; TSS <10 mg/l; COD – 15.9 mg/l; BOD – 8.0 mg/l; Faecal Coliforms – 70 MPN Total N – 2.9 mg/l Total P – 0.14 mg/l									

(i) Name of District	(ii) Sewage generation District wise population	(iii) Sewage generation Quantity		Details of Treatment of Sewage (District wise)						(v) Details of disposal of untreated sewage (MLD) (District wise)					(vi) Action plan to treat untreated sewage (District wise)		
										(a) Final destination of Discharge of untreated sewage	(b) If (a) above is let out in its quality						
										Urban areas	Rural Areas	By STP (MLD)	Type of STP	Disinfection method in STP			Discharge water quality from STP including Fecal & E-coli
Karaikal	10.6 MLD Urban	10.6 MLD	-	-	-	-	-	-	Septic tank Soak pit	-	-	10.6 MLD Back water of Arasallar river  Finally reaching into Sea	-	-	11 MLD capacity STP is under construction and will be completed by 30.06.2025.	Rs. 33.31 Cr is allotted under AMRUT and State fund.	
Puducherry, Yanam	6 MLD ,	6 MLD	-	-	-	-	-	-	Septic tank Soak pit	-	-	6 MLD (Coringa river which has back water all the time)	-	-	Tender is finalised. Will be completed by 31.12.2025	Rs. 17.73 is allotted under AMRUT (SBM).	

(i) Name of District	(ii) Sewage generation on District wise population	(iii) Sewage generation Quantity		Details of Treatment of Sewage (District wise)						(v) Details of disposal of untreated sewage (MLD) (District wise)					(vi) Action plan to treat untreated sewage (District wise)	
										(a) Final destination of Discharge of untreated sewage						
		Urban areas	Rural Areas	By STP (MLD)	Type of STP	Disinfection method in STP	Discharge water quality from STP including Fecal & E-coli	Final discharge of Treated STP water (MLD)	Other mode of treatment (MLD)	Wet land	Pond	River	Sea	Other Water Body	Time lines	Budget Outlay (Cr)
Puducherry, Mahe	4.5 MLD	4.5 MLD	-	-	-	-	-	4 MLD Septic tank Soak pit	-	-	-	0.5 MLD	-	Tender is finalised for installation of 0.5 MLD. Will be completed by 31.12.2025	Rs. 4.1 Cr is allotted under AMRUT (SBM).	