

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
SOUTHERN ZONE AT CHENNAI**

Original Application No.23 of 2024(SZ)

Earlier OA. No.705/2023(PB)

IN THE MATTER OF:

Tribunal on its own motion SUO MOTU
based on the News Item in The Indian
Express Dt. 03.11.2023 titled "Tamilnadu
Activities Allege drinking water supplied
from Madambakkam lake in Tambaram
contaminated with sewage civic body disagrees"

Vs

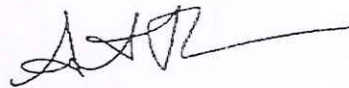
Tamil Nadu Pollution Control Board,
Through its Member Secretary,
Chennai and Ors.

.....Respondent

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Filed by
Thiru.S. Sai Sathya Jith,
Advocate, Chennai.

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
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-Vs-

Tamil Nadu Pollution Control Board,
Through its Member Secretary,
Chennai and Ors.

.....Respondents

REPORT FILED ON BEHALF OF THE FIRST RESPONDENT
TAMIL NADU POLLUTION CONTROL BOARD

I, K.Nalini, Daughter of Thiru.K.Krishnasamy, aged about 59 years, having office at No.76, Mount Salai, Guindy, Chennai 600 032, do hereby solemnly affirm and sincerely state as follows:

1. I submit that I am working as the Joint Chief Environmental Engineer, Tamil Nadu Pollution Control Board, Chennai and I am authorized to file this report on behalf of the first respondent and as such I am well acquainted with the facts of the case from the records available at our office.
2. It is respectfully submitted that based on the news item reported in 'The Indian Express' dated 03.11.2023, the Hon'ble NGT(PB) has taken a case as Suo Motu on 29.9.2023 in O.A No.705 of 2023 (PB) which has been transferred to NGT, (SZ), Chennai Bench and renumbered as Original Application No.23 of 2024 (SZ).
3. It is submitted that in OA No. 705 of 2023, the Hon'ble National Green Tribunal, (PB), New Delhi, has impleaded the following respondents


JOINT CHIEF ENVIRONMENTAL ENGINEER
TAMIL NADU POLLUTION CONTROL BOARD
No.76, MOUNT SALAI, GUINDY,
CHENNAI-600 032.

- i. Tamil Nadu Pollution Control Board (TNPCB) through its Member Secretary.
- ii. Tamil Nadu Water and Drainage Board (TWAD) through its Managing Director.
- iii. Tambaram City Municipal Corporation through its Commissioner.

and the operative portion of the Order is as follows:

"7.Let the water samples of Madambakkam lake be collected and analysed for drinking water quality parameters and for faecal coliform MPN/100 ml by the laboratories of TNPCB and Regional Laboratory of CPCB, Bangaluru together and report be submitted before the concerned Bench of the Tribunal before the next date of hearing."

4. It is submitted that on 29.9.2023, the Hon'ble NGT, (PB), New Delhi has transferred the OA No.705 of 2023 (PB), New Delhi to NGT, (SZ), Chennai for filing the reports by the respondents and for further proceedings.
5. It is submitted that on 09.02.2024, the Hon'ble NGT has renumbered the transferred O.A No.705 of 2023 as O.A No.23 of 2024 and issued notice to the respondents and directed to file their reports.
6. It is submitted that as per the direction of NGT, (SZ), Chennai the report is submitted herein as follows.
7. It is submitted that, a complaint was received from Thiru. Dhayanandh Krishnan through CM cell Complaint Id 6319531 dated 09.10.2023 regarding contamination of Madambakkam lake by discharge of sewage into the lake. Based on the above water sample were collected from Madambakkam lake by TNPCB officials on 12.10.2023 and the report of analysis obtained from Advanced Environmental Lab, Guindy, Chennai and District Environmental Laboratory, Maraimalai Nagar (Copy is enclosed as annexure – 1).

| Parameter | Unit |
|-----------------|--------------|
| Faecal Coliform | 93 MPN/100ml |
| Total Coliform | 340 N/100ml |


 JOINT CHIEF ENVIRONMENTAL ENGINEER
 TAMIL NADU POLLUTION CONTROL BOARD
 No.76, MOUNT SALAI, GUINDY,
 CHENNAI-600 032.

8. It is respectfully submitted that the above mentioned complaint was forwarded to the Commissioner, Tambaram City Municipal Corporation to take action on the said complaint and the details of action taken may be intimated to the petitioner directly vide this office Lr.no.DEE/TNPCB/MMN/UTM Complaint No.6319531/2023 dated 26.10.2023.(Copy is enclosed as annexure -2).
9. It is respectfully submitted that based on the Hon'ble National Green Tribunal(PB) Order dated 29.11.2023, Madambakkam lake was inspected along with CPCB officials on 15/05/2024 and samples were collected at the following locations inside the lake.

1. Wet Well -1 at Northern side of the lake.
2. Wet Well -2 at Northern side of the lake.
3. Wet Well -3 at Northern side of the lake.
4. Wet Well -4 at Northern side of the lake.
5. Wet Well -5 at Northern side of the lake.
6. Centre point of the lake.
7. Sewage Influencing point at Yashwanth Nagar Extension.
8. Sewage Influencing point at Thirumal Nagar.
9. Downstream of lake (South side) at paduvancherry.
10. Downstream of lake (East side) at paduvancherry.
11. Downstream of lake (East side) at Periyar Nagar.

10. It is respectfully submitted that the Report of analysis of the samples collected in Madambakkam Lake is submitted as follows:

1. Wet Well -1 at Northern side of the lake.

| Parameter | Unit |
|----------------|------------------|
| Fecal Coliform | 1732.9 MPN/100ml |
| Total Coliform | 2419.6 MPN/100ml |

Leahini
 JOINT CHIEF ENVIRONMENTAL ENGINEER
 TAMIL NADU POLLUTION CONTROL BOARD
 No.76, MOUNT SALAI, GUINDY,
 CHENNAI-600 032.

2. Wet Well -2 at Northern side of the lake.

| Parameter | Unit |
|----------------|------------------|
| Fecal Coliform | 1732.9 MPN/100ml |
| Total Coliform | 3972.6 MPN/100ml |

3. Wet Well -3 at Northern side of the lake.

| Parameter | Unit |
|----------------|-----------------|
| Fecal Coliform | 727 MPN/100ml |
| Total Coliform | 920.8 MPN/100ml |

4. Wet Well -4 at Northern side of the lake.

| Parameter | Unit |
|----------------|----------------|
| Fecal Coliform | 24.1 MPN/100ml |
| Total Coliform | 24.6 MPN/100ml |

5. Wet Well -5 at Northern side of the lake.

| Parameter | Unit |
|----------------|------------------|
| Fecal Coliform | 1986.3 MPN/100ml |
| Total Coliform | 4839.2 MPN/100ml |

6. Centre point of the lake.

| Parameter | Unit |
|----------------|------------------|
| Fecal Coliform | 2419.6 MPN/100ml |
| Total Coliform | 7945.2 MPN/100ml |

7. Sewage Influencing point at Yashwanth Nagar Extension.

| Parameter | Unit |
|----------------|------------------|
| Fecal Coliform | 547.5 MPN/100ml |
| Total Coliform | 1119.9 MPN/100ml |

8. Sewage Influencing point at Thirumal Nagar.

| Parameter | Unit |
|----------------|-----------------|
| Fecal Coliform | 12098 MPN/100ml |
| Total Coliform | 99315 MPN/100ml |


 JOINT CHIEF ENVIRONMENTAL ENGINEER
 TAMIL NADU POLLUTION CONTROL BOARD
 No.76, MOUNT SALAI, GUINDY,
 CHENNAI-600 032.

9. Downstream of lake (South side) at paduvancherry.

| Parameter | Unit |
|----------------|------------------|
| Fecal Coliform | 2419.6 MPN/100ml |
| Total Coliform | 4902 MPN/100ml |

10. Downstream of lake (East side) at paduvancherry.

| Parameter | Unit |
|----------------|------------------|
| Fecal Coliform | 4839.2 MPN/100ml |
| Total Coliform | 12098 MPN/100ml |

11. Downstream of lake (East side) at Periyar Nagar.

| Parameter | Unit |
|----------------|------------------|
| Fecal Coliform | 2419.6 MPN/100ml |
| Total Coliform | 3850.5 MPN/100ml |

11. It is respectfully submitted that the report of analysis reveals that Faecal Coliform exceeds the drinking water standards. In this regard, a show cause notice was issued to the Tambaram City Municipal Corporation vide Proc. No. DEE/TNPCB/MMN/W/2024 dated:19/07/2024. The reply from the Commissioner, Tambaram City Municipal Corporation is awaited.

Therefore, it is prayed that this Hon'ble Tribunal may be pleased to pass orders or further other orders as this Hon'ble Tribunal may deem fit and necessary in the circumstances of the case and thus render justice.

K. Nalini
 JOINT CHIEF ENVIRONMENTAL ENGINEER
 TAMIL NADU POLLUTION CONTROL BOARD
 No.76, MOUNT SALAI, GUINDY,
 CHENNAI-600 032.

VERIFICATION

K.Nalini, Daughter of Thiru.K.Krishnasamy, working as Joint Chief Environmental Engineer, TNPCB, No.76, Mount Salai, Guindy, Chennai 600 032 do hereby verify that the contents of above are true to the best of my knowledge through records.

K. Nalini
 JOINT CHIEF ENVIRONMENTAL ENGINEER
 TAMIL NADU POLLUTION CONTROL BOARD
 No.76, MOUNT SALAI, GUINDY,
 CHENNAI-600 032.



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TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY
No. 76, MOUNT SALAI, GUINDY,
CHENNAI - 32.
TEST REPORT

Annexure - I

Report of Analysis No. October-1946/2023 - 2024/ Dated 30.10.2023

| | | | |
|------------------------------------|--|--|---------------------------------|
| Name and Address of the sender | The District Environmental Engineer, Tamil Nadu Pollution Control Board, Maraimalai Nagar | | |
| Nature and number of samples | 1 Number of Complaint Bacteriological Sample | Sample quantity 300ml | Sealed in 300ml glass Bottle |
| Date and time of sample collection | 12.10.2023 1.00 PM | Date & time of sample receipt at the lab | 13.10.2023 at 3.30 PM |
| Point of Collection | 1 Madambakkam Lake | | |
| Analysis Starting date | 13.10.2023 | Analysis Completion Date | 30.10.2023 |

| Sl. No. | DEE Code No. | Unit | JML 10 | Test Method |
|------------|----------------|---------------|----------|------------------------------|
| | Lab Code No. | | Oct-1946 | |
| | Parameters | | | |
| 1 | Fecal Coliform | MPN/ 100ml | 93 | APHA 23rd Edn 2017.-9221 B.E |
| 2 | Total Coliform | MPN/ 100ml | 340 | APHA 23rd Edn 2017.-9221 B.C |

Note: BDL indicates Less than minimum detectable limit.

30/10/23
Assistant Director (Lab)
AEL, TNPCB, Chennai-32.

30/10/23
ASD

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TAMIL NADU POLLUTION CONTROL BOARD
DISTRICT ENVIRONMENTAL LABORATORY M.M.Nagar
Report of Analysis

ROA No.384/2023-24 dated 26.10.2023

| | | | |
|------------------------------------|--|--|-------------------------|
| Name and address of the sender | District Environmental Engineer Tamil Nadu Pollution Control Board, M.M.Nagar | | |
| Nature and number of samples | 1 number of trade effluent /sewage samples/Lake water | Sample quantity | 2.5L |
| Date and Time of Sample Collection | 12/10/2023 4 00 P M | Date and Time of Sample receipt at lab | 12/10/2023 06 00 P M |
| Point of collection | 1 Lakeside (NA) - Board's Cost | | |

| S.No | DEE Code no | | JML10 | |
|------|---------------------------------|------|------------|--|
| | Lab code No | | 636 | Tested as per APHA 22 nd Edition 2012 |
| | Parameters | Unit | | |
| 1 | Color | HU | Colourless | Visual method |
| 2 | pH @ 25°C | No. | 6.95 | Electrometric method |
| 3 | DO | mg/L | 7.1 | Winkler's (Azide modification method) |
| 4 | BOD @ 27° C | mg/L | 6 | Winkler's method |
| 5 | COD | mg/L | 56 | Open reflux method |
| 6 | Conductivity | uS | 754 | Electrometric method |
| 7 | Turbidity | mg/L | 8.35 | Turbidity meter method |
| 8 | Total Dissolved Solids @ 180° C | mg/L | 402 | Gravimetric method |
| 9 | Chloride as Cl-1 | mg/L | 129 | Argentometric method |
| 10 | Total Suspended Solids @ 105° C | mg/L | 10 | Gravimetric method |
| 11 | Total Hardness | mg/L | 260 | Titration method |
| 12 | Total alkalinity | mg/L | 88 | Titration method |
| 13 | Total Nitrogen | mg/L | <2 | Titration method |
| 14 | Odour | - | Odourless | Visual method |
| 15 | Sulphate as SO42- | mg/L | 91 | Turbidimetric method |
| 16 | Sulphide as S-2 | mg/L | <1 | Iodometric method |

P. Srinivasan
26/10/23
Deputy Chief Scientific Officer (Lab)
TNPCB, DEL M.M.Nagar



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TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY
No. 76, MOUNT SALAI, GUINDY,
CHENNAI - 32.
TEST REPORT

Report of Analysis No. May-759 - May-761 /2024 - 2025/ Dated:27.05.2024

| | | | | |
|------------------------------------|---|--|--|------------------------------|
| Name and Address of the sender | : | The District Environmental Engineer, Tamil Nadu Pollution Control Board, Maraimalai Nagar | | |
| Nature and number of samples | : | 3 Numbers of Microbiology - Sample | Sample quantity 300ml | Sealed in 300ml glass Bottle |
| Date and time of sample collection | : | 15.05.2024 9.50 AM to 11.10 AM, | Date & time of sample receipt at the lab | 16.05.2024 at 2.45 PM |
| Point of Collection | 1 | Wet well-1 at Northern side of the lake | | |
| | 2 | Wet well-2 at Northern side of the lake | | |
| | 3 | Wet well-3 at Northern side of the lake | | |
| Analysis Starting date | : | 16.05.2024 | Analysis Completion Date | 24.05.2024 |

| Sl. No. | DEE Code No. | Unit | MLW-1 (MI) | MLW-2 (MI) | MLW-3 (MI) | Test Method |
|---------|----------------|-----------|------------|------------|------------|------------------------------|
| | Lab Code No. | | May-759 | May-760 | May-761 | |
| | Parameters | | | | | |
| 1 | Fecal Coliform | MPN/100ml | 1732.9 | 1732.9 | 727.0 | APHA 23rd Edn 2017,-9223 A,B |
| 2 | Total Coliform | MPN/100ml | 2419.6 | 3972.6 | 920.8 | APHA 23rd Edn 2017,-9223 A,B |

Note: SCL indicates Less than minimum detectable limit.

[Signature]
30/5/24
Assistant Director (Lab)
AEL, TNPCB, Chennai-32



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TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY
No. 76, MOUNT SALAI, GUINDY,
CHENNAI - 32.
TEST REPORT

Report of Analysis No. May-762 - May-764 /2024 - 2025/ Dated:27.05.2024

| | | | | |
|------------------------------------|---|--|--|------------------------------|
| Name and Address of the sender | : | The District Environmental Engineer, Tamil Nadu Pollution Control Board, Maraimalai Nagar | | |
| Nature and number of samples | : | 3 Numbers of Microbiology Sample | Sample quantity 300ml | Sealed in 300ml glass Bottle |
| Date and time of sample collection | : | 15.05.2024 10.40 AM to 11.40 AM | Date & time of sample receipt at the lab | 16.05.2024 at 2.45 PM |
| Point of Collection | 1 | Wet well-4 at Northern side of the lake | | |
| | 2 | Wet well-5 at Northern side of the lake | | |
| | 3 | Center point of the lake | | |
| Analysis Starting date | : | 16.05.2024 | Analysis Completion Date | 24.05.2024 |

| Sl. No. | DEE Code No. | Unit | MLW-4 (MI) | MLW-5 (MI) | MLC-MI | Test Method |
|---------|----------------|-----------|------------|------------|---------|------------------------------|
| | Lab Code No. | | May-762 | May-763 | May-764 | |
| | Parameters | | | | | |
| 1 | Fecal Coliform | MPN/100ml | 24.1 | 1986.3 | 2419.6 | APHA 23rd Edn 2017,-9223 A,B |
| 2 | Total Coliform | MPN/100ml | 24.6 | 4839.2 | 7945.2 | APHA 23rd Edn 2017,-9223 A,B |

Note: BDL indicates Less than minimum detectable limit.

Assistant Director (Lab)
AEL, TNPCB, Chennai-32.
30/5/24



TAMIL NADU POLLUTION CONTROL BOARD
 ADVANCED ENVIRONMENTAL LABORATORY
 No. 70, MOUNT SALAI, GUINDY,
 CHENNAI - 32.
TEST REPORT

Receipt of Analyte No. May-766 - May-767 /2024 - 2025/ Dated 27.05.2024

| | | | |
|------------------------------------|--|---|------------------------------|
| Name and Address of the sender | The District Environmental Engineer, Tamil Nadu Pollution Control Board, Maraimalai Nagar | | |
| Nature and number of samples | 3 Numbers of Microbiology Sample | Sample quantity 300ml | Sealed in 300ml glass Bottle |
| Date and time of sample collection | 15.05.2024 12 00 PM to 1 25 PM | Date & time of sample receipt at the lab | 16.05.2024 at 2.45 PM |
| Point of Collection | 1 | Sewage Influencing point at Yashwanth Nagar Extension | |
| | 2 | Sewage Influencing point at Thirumal Nagar | |
| | 3 | Downstream of lake (South side) paduvancherry | |
| Analysis Starting date | 10.05.2024 | Analysis Completion Date | 24.05.2024 |

| Sl. No. | DEE Code No. | Unit | MLI-1 (MI) | MLI-2 (MI) | MLD-S(MI) | Test Method |
|---------|----------------|-----------|------------|------------|-----------|------------------------------|
| | Lab Code No. | | May-765 | May-766 | May-767 | |
| | Parameters | | | | | |
| 1 | Fecal Coliform | MPN/100ml | 547.5 | 12098 | 2419.6 | APHA 23rd Edn 2017,-9223 A,B |
| 2 | Total Coliform | MPN/100ml | 1119.9 | 99315 | 4902 | APHA 23rd Edn 2017,-9223 A,B |

Note: BDL Indicates Less than minimum detectable limit.

[Signature]
 Assistant Director (Lab)
 AEL, TNPCB, Chennai-32.
 30/5/24



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TAMIL NADU POLLUTION CONTROL BOARD
ADVANCED ENVIRONMENTAL LABORATORY
No. 78, MOUNT SALAI, GUINDY,
CHENNAI - 32.
TEST REPORT

Reason of Analysis No. May-768, May-769 /2024 - 2025/ Dated 27.05.2024

| | | | |
|------------------------------------|--|---|------------------------------|
| Name and Address of the sender | The District Environmental Engineer, Tamil Nadu Pollution Control Board, Maraimalai Nagar | | |
| Nature and number of samples | 2 Numbers of Microbiology Sample ✓ | Sample quantity 300ml | Sealed in 300ml glass Bottle |
| Date and time of sample collection | 15.05.2024 1.45 PM to 2.05 PM ✓ | Date & time of sample receipt at the lab | 16.05.2024 at 2.45 PM ✓ |
| Point of Collection | 1 | Downstream of lake (East side) at Paduvancherry | |
| | 2 | Downstream of lake (East side) at Periyar Nagar ✓ | |
| Analysis Starting date | 18.05.2024 | Analysis Completion Date | 24.05.2024 ✓ |

| Sl. No. | DEE Code No. | Unit | MLD-E1 (MI) | MLD-E2(MI) | Test Method |
|------------|----------------|-----------|-------------|------------|------------------------------|
| | Lab Code No. | | May-768 | May-769 | |
| Parameters | | | | | |
| 1 | Fecal Coliform | MPN/100ml | 4839.2 ✓ | 2419.6 ✓ | APHA 23rd Edn 2017,-9223 A.B |
| 2 | Total Coliform | MPN/100ml | 12098 ✓ | 3850.5 ✓ | APHA 23rd Edn 2017,-9223 A.B |

Note: BDU indicates Less than minimum detectable limit.

Assistant Director (Lab)
AEL, TNPCB, Chennai-32.
30/5/24



TAMIL NADU POLLUTION CONTROL BOARD

From

To

Er.K. Udayakumar, B.E., M.Tech.,
District Environmental Engineer,
Tamil Nadu Pollution Control Board,
Maraimalai Adigalar Street,
Maraimalai Nagar.
Chengalpattu District - 603 209.

The Commissioner,
Tambaram City Municipal Corporation,
No.28,Muthuranga Mudali Street,
West Tambaram
Chennai 600 045.

Lr.No.DEE/TNPCB/MMN/ UTM Complaint No.6319531/2023 dated: 26.10.2023

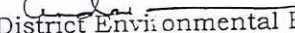
Sir,


Sub : DEE - TNPCB - MMN - Complaint regarding contamination of
Madambakkam lake by discharge of sewage - Action requested - Reg

Ref : UTM Complaint petition received from Thiru.V. Dayanand Krishnan, No. 14,
karthik Avenue, Thirumagal Nagar, 3rd street, Chitlapakkam, Chennai,
through UTM, Complaint ID 6319531 dated 17.10.2023

Based on the Complaint received regarding contamination of madambakkam lake by
discharge of sewage, Water Samples were collected from Madambakkam lake 12.10.2023 and
sent to District Environmental Laboratory, Maraimalai Nagar, and Advanced Environmental
Laboratory, Chennai for Analysis.

In this regard, it is informed that the said complaint received is enclosed herewith and
it is requested to take action on the said complaint and the details of action taken may be
intimated to the petitioner directly.


District Environmental Engineer,
Tamil Nadu Pollution Control Board,
Maraimalai Nagar.


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**BEFORE THE HON'BLE NATIONAL
GREEN TRIBUNAL,
SOUTHERN ZONE AT CHENNAI**

Original Application No.23 of 2024(SZ)

Earlier OA. No.705/2023(PB)

IN THE MATTER OF:

Tribunal on its own motion SUO MOTU based on the News Item in The Indian Express Dt. 03.11.2023 titled "Tamilnadu Activities Allege drinking water supplied from Madambakkam lake in Tambaram contaminated with sewage civic body disagrees"

-Vs-

Tamil Nadu Pollution Control Board,
Through its Member Secretary,
Chennai and Ors.

.....Respondents

**REPORT FILED ON BEHALF OF
THE FIRST RESPONDENT TAMIL
NADU POLLUTION CONTROL
BOARD**

**Advocate for Respondent: TNPCB
Thiru.S. Sai Sathya Jith,
Advocate, Chennai.**

Date: 30.09.2024

Date of hearing on:11.11.2024